

SIMATIC IDENT

Configuration Guide



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Important notes:

All selection possibilities of this
SIMATIC Ident Configuration Guide
can also be found in the **TIA Selection Tool**.
This tool is available at:
<http://www.siemens.com/tst>

Other functional highlights of the selection tool:

- Create order lists
- Get price information by application to the mall
- Select other automation components
(control devices, IO-Systems,
industrial communication)
- Network view of all components
- Retrieve and compare technical data
- ... and much more

All current wireless approvals can be found
on the Internet at:

<http://www.siemens.com/rfid-approvals>

The newest version of this configuration guide
is published at:

<https://support.industry.siemens.com/cs/ww/en/view/67384964>

Each SIMATIC RF Family has characteristics that orients it to a particular range of applications:

- The first step is to understand the application by asking the right questions. Out of this process, the best-suited SIMATIC RF family can be determined
- A reader and tag combination within the specific family can be selected using the SIMATIC RF family matrix pages
- Within the chosen family, a network interface to the control system can be selected using the system interfaces pages

Technology	HF → UHF			
What is the basic RF technology?	RF1000  125 kHz + 13.56 MHz	RF200  13.56 MHz	RF300  13.56 MHz	RF600  868/915 MHz
Read Distance	Shorter → Longer			
How far away can the tag be from the reader antenna system and still be seen?	RF1000  30 mm	RF300  210 mm	RF200  650 mm	RF600  8 meters
Tag Memory	Less → More			
How many bytes are required to be stored on the tag?	RF600  384 bytes	RF200  8 kbytes	RF300  64 kbytes	
Metal Effects	Direct Mount → Spacer Mount			
Do tags and reader need to be mounted on or around metal?	RF300  Direct with reduction	RF600  Direct with reduction	RF200  Spacer Mount	
Tag Dimensions	Smallest → Largest			
What is the smallest tag size available?	RF200  Ø 4 x 5 mm	RF300  Ø 4 x 5 mm	RF600  Ø 21 x 20 mm	

Environment	Heavy ← → Heavy			
What kind of environmental extremes will the tags be subjected to?	RF200  220° C IP68	RF300  220° C IP68	RF600  230° C IP68	
Reader Dimensions	Smallest → Largest			
How much space will there be for mounting the reader/antenna?	RF200  M8 x 38	RF300  M12 x 40	RF600  75 x 75 x 20	
Multitag Mode	Less → More			
Will there be more than one tag in the RF field at a time?	RF200  1	RF300  1	RF600  100+	
Tag Speed	Slower → Faster			
How fast will the tag be traveling through the RF field?	RF200  26 kbits/sec	RF300  100 kbits/sec	RF600  300 kbits/sec	
Air Interface Protocol	Siemens → Standard			
Are there any requirements regarding the air interface protocol?	RF300  Siemens/ ISO15693/14443	RF200  ISO 15693	RF600  ISO 18000 -62/ -63	RF1000  ISO15693/14443 Legic, Emxx/Hitag

RF200 Family Matrix

13.56 MHz – passive tags

RF200 Family Matrix 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	D165 6GT2 600-1AB00-0AX0 112 byte EEPROM  -25°C to 80°C 86 x 54 x 0.3 IP65	D261 6GT2 600-1AA01-0AX0 316 byte EEPROM  -20°C to 85°C 55 x 55 x 0.3 IP65	D100 6GT2 600-0AD10 112 byte EEPROM  -25°C to 80°C 85,6 x 54 x 0.9 IP68	D200 6GT2 600-1AD00-0AX0 256 byte EEPROM  -20°C to 60°C 85,6 x 54 x 0.8 IP67	D400 6GT2 600-4AD00 2 kbyte FRAM  -20°C to 60°C 85,6 x 54 x 0.8 IP67	D160 6GT2 600-0AB10 112 byte EEPROM  -40°C to 180°C Ø 16 x 3 IP68/IPx9K	D460 6GT2 600-4AB00 2 kbyte FRAM  -40°C to 90°C Ø 16 x 3 IP68/IPx9K	D560 6GT2 600-5AB00 8 kbyte FRAM  -40°C to 90°C Ø 16 x 3 IP68/IPx9K
RF210R/ RF210M 6GT2 821-1AC10, RS422 6GT2 821-1AC32 / -1BC32, IO-Link* 6GT2 823-0AA00, Handheld (RS422)  Integrated M18 x 71							1-10/ 12 (0.04-0.39/ 0.47)	1-8/ 9 (0.04-0.31/ 0.35)	1-8/ 9 (0.04-0.31/ 0.35)
RF220R 6GT2 821-2AC10, RS422 6GT2 821-2AC32 / -2BC32, IO-Link*  Integrated M30 x 71							1-20/ 22 (0.04-0.79/ 0.87)	1-18/ 20 (0.04-0.71/ 0.79)	1-18/ 20 (0.04-0.71/ 0.79)
RF240R 6GT2 821-4AC10, RS422 6GT2 821-4AC40, RS232 (ASCII) 6GT2821-4AC32 / -4BC32, IO-Link*  Integrated 50 x 50 x 30		2-80/ 94 (0.08-3.15/ 3.70)	2-60/ 70 (0.08-2.36/ 2.76)	2-84/ 95 (0.08-3.31/ 3.74)	2-69/ 78 (0.08-2.72/ 3.07)	2-80/ 90 (0.08-3.15/ 3.54)	1-33/ 37 (0.04-1.30/ 1.46)	1-30/ 34 (0.04-1.18/ 1.34)	1-30/ 34 (0.04-1.18/ 1.34)
RF250R ANT 1 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CB00, ANT 1   75 x 75 x 20		5-95/ 110 (0.20-3.74/ 4.33)	2-90/ 110 (0.08-3.54/ 4.33)	5-95/ 115 (0.20-3.74/ 4.53)	5-90/ 100 (0.20-3.54/ 3.94)	10-95/ 110 (0.39-3.74/ 4.33)	2-35/ 45 (0.08-1,38/ 1.77)	2-30/ 40 (0.08-1.18/ 1.57)	2-30/ 40 (0.08-1.18/ 1.57)
RF250R ANT 3 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CD40-0AX0, ANT 3   28 x 50 x 10							1-23/ 30 (0.04-0.91/1.18)	1-21/ 27 (0-0.83/ 1.06)	1-21/ 27 (0.04-0.83/ 1.06)
RF250R ANT 8 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CF10, ANT 8   Ø8 x 38									
RF250R ANT 12 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1DC10, ANT 12**   Ø12 x 40							1-11/ 13 (0.04-0.43/ 0.51)	1-8/ 10 (0.04-0.31/ 0.39)	1-11/ 13 (0.04-0.43/ 0.51)
Accessories				Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)	Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)	Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)	Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00)	Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00)	Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00)

* not with Tags D5xx ** antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DC10 (ANT12)

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

SIMATIC Ident Configuration Guide

RF200 Family Matrix 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	D165 6GT2 600-1AB00-0AX0 112 byte EEPROM  -25°C to 80°C 86 x 54 x 0.3 IP65	D261 6GT2 600-1AA01-0AX0 316 byte EEPROM  -25°C to 85°C 55 x 55 x 0.3 IP65	D100 6GT2 600-0AD10 112 byte EEPROM  -25°C to 80°C 85,6 x 54 x 0.9 IP68	D200 6GT2 600-1AD00-0AX0 256 byte EEPROM  -20°C to 60°C 85.6 x 54 x 0.8 IP67	D400 6GT2 600-4AD00 2 kbyte FRAM  -20°C to 60°C 85.6 x 54 x 0.8 IP67	D160 6GT2 600-0AB10 112 byte EEPROM  -40°C to 180°C Ø 16 x 3 IP68/IPx9K	D460 6GT2 600-4AB00 2 kbyte FRAM  -40°C to 90°C Ø 16 x 3 IP68/IPx9K	D560 6GT2 600-5AB00 8 kbyte FRAM  -40°C to 90°C Ø 16 x 3 IP68/IPx9K
	RF250R ANT 18 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1DA10, ANT 18 	 Ø18 x 40					1-17/ 20 (0.04-0.67/ 0.79)	1-15/ 18 (0.04-0.59/ 0.71)	1-17/ 20 (0.04-0.67/ 0.79)
	RF250R ANT 30 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1DD10, ANT 30 	 Ø30 x 40					1-22/ 25 (0.04-0.87/ 0.98)	1-24/ 27 (0.04-0.94/ 1.06)	1-22/ 25 (0.04-0.87/ 0.98)
	RF260R 6GT2 821-6AC10, RS422 6GT2 821-6AC40, RS232 (ASCII) 6GT2 821-6AC32 / -6BC32, IO-Link* 	Integrated	2-120/ 135 (0.08-4.72/ 5.31)	2-75/ 90 (0.08-2.95/ 3.54)	2-110/ 130 (0.08-4.33/ 5.12)	2-100/ 120 (1.18-3.94/ 4.72)	2-90/ 120 (0.08-3.54/ 4.72)	2-40/ 45 (0.08-1.57/ 1.77)	2-40/45 (0.08-1.57/ 1.77)
	RF280R 6GT2 821-8AC10, RS422 6GT2 821-8AC40, RS232 (ASCII) 	Integrated	10 -160/ 190 (0.39-6.3/ 7.48)	20-110/ 150 (0.79-4.33/ 5.91)	10-160/ 200 (0.39-6.3/ 7.87)	20-140/ 185 (0.79-5.51/ 7.28)	5-150/ 180 (0.20-5.91/ 7.09)	2-55/ 70 (0.08-2.17/ 2.76)	2-55/ 70 (0.08-2.17/ 2.76)
	Accessories			Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)	Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)	Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)	Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00)	Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00)	Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00)

* not with Tags D5xx

** antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DA00 (ANT18) or 6GT2398-1DD00 (ANT30)

RF200 Family Matrix 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	D165 6GT2 600-1AB00-0AX0 112 byte EEPROM  -25°C to 80°C 86 x 54 x 0.3 IP65	D261 6GT2 600-1AA01-0AX0 316 byte EEPROM  -25°C to 85°C 55 x 55 x 0.3 IP65	D100 6GT2 600-0AD10 112 byte EEPROM  -25°C to 80°C 85.6 x 54 x 0.9 IP68	D200 6GT2 600-1AD00-0AX0 256 byte EEPROM  -20°C to 60°C 85.6 x 54 x 0.8 IP67	D400 6GT2 600-4AD00 2 kbyte FRAM  -20°C to 60°C 85.6 x 54 x 0.8 IP67	D160 6GT2 600-0AB10 112 byte EEPROM  -40°C to 180°C Ø 16 x 3 IP68/IPx9K	D460 6GT2 600-4AB00 2 kbyte FRAM  -40°C to 90°C Ø 16 x 3 IP68/IPx9K	D560 6GT2 600-5AB00 8 kbyte FRAM  -40°C to 90°C Ø 16 x 3 IP68/IPx9K
	RF290R 6GT2 821-0AC12, RS232, RS422 	ANT D1  6GT2 698-5AC00 75 x 75 x 20 10-180/ 250 (0.39-7.09/ 9.84)	5-130/ 180 (0.39-5.12/ 7.09)	10-180/ 250 (0.39-7.09/ 9.84)	10-170/240 (0.39-6.69/ 9.45)	10-170/240 (0.39-6.69/ 9.45)	1-65/90 (0.04-2.56/ 3.54)	1-60/85 (0.04-2.36/ 3.35)	1-60/85 (0.04-2.36/ 3.35)
		ANT D5  6GT2 698-5AA10 380 x 380 x 110 1-350/ 450 (0.04-13.78/ 17.72)	1-300/ 400 (0.04-11.81 / 15.75)	1-400/ 500 (0.04-15.75/ 19.69)	1-400/ 500 (0.04-15.75/ 19.69)	1-300/ 375 (0.04-11.81/ 14.76)	1-130/ 180 (0.04-5.12/ 7.09)	1-120/ 160 (0.04-4.72/ 6.30)	1-120/ 160 (0.04-4.72/ 6.30)
		ANT D6  6GT2 698-5AB00 580 x 480 x 110 1-400/ 500 (0.04-15.75/ 19.69)	1-350/ 450 (0.04-13.78 / 17.72)	1-550/ 650 (0.04-21.65/ 25.59)	1-500/ 600 (0.04-19.69/ 23.62)	1-500/ 650 (0.04-19.69/ 25.59)			
		ANT D10  6GT2 698-5AF00 1150 x 365 x 115 1-350/ 450 (0.04-13.78/ 17.72)	1-350/ 450 (0.04-13.78 / 17.72)	1-500/ 600 (0.04-19.69/ 23.62)	1-450/ 550 (0.04-17.72/ 21.65)	1-400/ 500 (0.04-15.75/ 19.69)			
Accessories	Covering hood for ANT D6 (6GT2 690-0AD00)			Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)	Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)	Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)	Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00)	Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00)	Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00)

RF200 Family Matrix 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	D117 6GT2 600-0AG00 112 byte EEPROM  -40°C to 125°C Ø4 x 5.2 IP68 / IPx9K	D127 6GT2 600-0AF00 112 byte EEPROM  -40°C to 125°C Ø 6 x 5.8 IP68/ IPx9K	D421 6GT2 600-4AE00 2 kbyte FRAM  -40°C to 100°C Ø10 x 4.5 IP67/ IPx9K	D521 6GT2 600-5AE00 8 kbyte FRAM  -40°C to 100°C Ø10 x 4.5 IP67/ IPx9K	D422 6GT2 600-4AF00 2 kbyte FRAM  -40°C to 100°C Ø20 x 6 IP68	D522 6GT2600-5AF00 6GT2600-5AF00-0AX0 8 kbyte FRAM  -40°C to 100°C Ø20 x 6 ; Ø18 x 5.2 IP68
RF210R/ RF210M 6GT2 821-1AC10, RS422 6GT2 821-1AC32 / -1BC32, IO-Link* 6GT2 823-0AA00, Handheld (RS422) 	Integrated M18 x 71	0-4/5 (0-0.16/ 0.20)	0-4/ 5 (0-0.16/ 0.20)	0-3/ 4 (0-0.12/ 0.16)	0-3/ 4 (0-0.12/ 0.16)	1-9/ 10 (0.04-0.35/ 0.39)	1-8/ 9 (0.04-0.31/ 0.35)
RF220R 6GT2 821-2AC10, RS422 6GT2 821-2AC32 / -2BC32, IO-Link* 	Integrated M30 x 71					1-12/ 14 (0.04-0.47/ 0.55)	1-10/ 12 (0.04-0.39/ 0.47)
RF240R 6GT2 821-4AC10, RS422 6GT2 821-4AC40, RS232 (ASCII) 6GT2821-4AC32 / -4BC32, IO-Link* 	Integrated 50 x 50 x 30					1-12/ 15 (0.04-0.47/ 0.59)	1-10/ 12 (0.04-0.39/ 0.47)
RF250R ANT 1 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CB00, ANT 1 	 75 x 75 x 20						
RF250R ANT 3 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CD40-0AX0, ANT 3 	 28 x 50 x 10					1-12/ 15 (0.04-0.47/ 0.59)	1-12/ 15 (0.04-0.47/ 0.59)
RF250R ANT 8 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CF10, ANT 8 	 Ø8 x 38	0-4/ 5 (0-0.16/ 0.20)	0-4/ 5 (0-0.16/ 0.20)	0-3/ 4 (0-0.12/ 0.16)	0-3/ 4 (0-0.12/ 0.16)		
RF250R ANT 12 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1DC10, ANT 12** 	 Ø12 x 40	0-4/ 6 (0-0.16/ 0.24)	0-4/ 6 (0-0.16/ 0.24)	0-2/ 3 (0-0.08/ 0.12)	0-3/ 4 (0-0.12/ 0.16)	0-5/ 6 (0-0.20/ 0.24)	1-5/ 7 (0.04-0.20/ 0.28)
Accessories							

* not with Tags D5xx ** antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DC10 (ANT12)

RF200 Family Matrix 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	D117 6GT2 600-0AG00 112 byte EEPROM  -40°C to 125°C Ø4 x 5.2 IP68 / IPx9K	D127 6GT2 600-0AF00 112 byte EEPROM  -40°C to 125°C Ø 6 x 5.8 IP68/ IPx9K	D421 6GT2 600-4AE00 2 kbyte FRAM  -40°C to 100°C Ø10 x 4.5 IP67/ IPx9K	D521 6GT2 600-5AE00 8 kbyte FRAM  -40°C to 100°C Ø10 x 4.5 IP67/ IPx9K	D422 6GT2 600-4AF00 2 kbyte FRAM  -40°C to 100°C Ø20 x 6 IP68	D522 6GT2600-5AF00 6GT2600-5AF00-0AX0 8 kbyte FRAM  -40°C to 100°C Ø20 x 6 ; Ø18 x 5.2 IP68
RF250R ANT 18 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1DA10, ANT 18** 	 Ø18 x 40	0-6/ 8 (0-0.24/ 0.31)	0-6/ 8 (0-0.24/ 0.31)	0-3/ 5 (0-0.12/ 0.20)	0-3/ 5 (0-0.12/ 0.20)	1-8/ 10 (0.04-0.31/ 0.39)	1-10/ 12 (0.04-0.39/ 0.47)
RF250R ANT 30 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1DD10, ANT 30 	 Ø30 x 40					1-12/ 15 (0.04-0.47/ 0.59)	1-12/ 15 (0.04-0.47/ 0.59)
RF260R 6GT2 821-6AC10, RS422 6GT2 821-6AC40, RS232 (ASCII) 6GT2 821-6AC32 / -6BC32, IO-Link* 	Integrated 75 x 75 x 41						
RF280R 6GT2 821-8AC10, RS422 6GT2 821-8AC40, RS232 (ASCII) 	Integrated 160 x 96 x 41						
Accessories							

* not with Tags D5xx

** antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DA00 (ANT18) or 6GT2398-1DD00 (ANT30)

RF200 Family Matrix 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	D117 6GT2 600-0AG00 112 byte EEPROM  -40°C to 125°C Ø4 x 5.2 IP68 / IPx9K	D127 6GT2 600-0AF00 112 byte EEPROM  -40°C to 125°C Ø 6 x 5.8 IP68/ IPx9K	D421 6GT2 600-4AE00 2 kbyte FRAM  -40°C to 100°C Ø10 x 4.5 IP67/ IPx9K	D521 6GT2 600-5AE00 8 kbyte FRAM  -40°C to 100°C Ø10 x 4.5 IP67/ IPx9K	D422 6GT2 600-4AF00 2 kbyte FRAM  -40°C to 100°C Ø20 x 6 IP68	D522 6GT2600-5AF00 6GT2600-5AF00-0AX0 8 kbyte FRAM  -40°C to 100°C Ø20 x 6 ; Ø18 x 5.2 IP68
RF290R 6GT2 821-0AC12, RS232, RS422 Accessory: Set for top rail mounting 6GK5798-8ML00-0AB3 	ANT D1  6GT2 698-5AC00 75 x 75 x 20						
	ANT D5  6GT2 698-5AA10 380 x 380 x 110						
	ANT D6  6GT2 698-5AB00 580 x 480 x 110						
	ANT D10  6GT2 698-5AF00 1150 x 365 x 115						
Accessories	Covering hood for ANT D6 (6GT2 690-0AD00)						

RF200 Family Matrix 13.56 MHz Passive Tags	Antennas	D124	D324	D424	D524	D226s	D426s	D126	D426	D526
		6GT2 600-0AC10 112 byte EEPROM  -40°C to 180°C Ø 27 x 4 IP68/ IPx9K	6GT2 600-3AC00 992 byte EEPROM  -40°C to 140°C Ø 27 x 4 IP67 / IPx9K	6GT2 600-4AC00 2 kbyte FRAM  -40°C to 100°C Ø 27 x 4 IP67/ IPx9K	6GT2 600-5AC00 8 kbyte FRAM  -40°C to 100°C Ø 27 x 4 IP67/ IPx9K	6GT2 600-2BA00 316 byte EEPROM  -40°C to 90°C Ø 30 x 3 IP68 / IPx9K	6GT2 600-4BA00 2000 byte FRAM  -40°C to 100°C Ø 30 x 3 IP68 / IPx9K	6GT2 600-0AE00 112 byte EEPROM  -40°C to 140°C Ø 50 x 3.6 IP68	6GT2 600-4AH00 2 kbyte FRAM  -40°C to 90°C Ø 50 x 3.6 IP68	6GT2 600-5AH00 8 kbyte FRAM  -40°C to 100°C Ø 50 x 3.6 IP68
RF210R/ RF210M 6GT2 821-1AC10, RS422 6GT2 821-1AC32 / -1BC32, IO-Link* 6GT2 823-0AA00, Handheld (RS422) 	Integrated M18 x 71	1-18/ 20 (0.04-0.71/ 0.79)	1-8/ 9 (0.04-0.31/ 0.35)	1-16/ 18 (0.04-0.63/ 0.71)	1-15/ 17 (0.04-0.59/ 0.67)	1-14/16 (0.04-0.55/0.63)	1-13/15 (0.04-0.51/0.59)			
RF220R 6GT2 821-2AC10, RS422 6GT2 821-2AC32 / -2BC32, IO-Link* 	Integrated M30 x 71	1-28/ 31 (0.04-1.10/ 1.22)	2-21/ 25 (0.08-0.83/ 0.98)	2-25/ 29 (0.08-0.98/ 1.14)	2-22/ 25 (0.08-0.87/ 0.98)	1-25/30 (0.04-0.98/1.18)	1-25/30 (0.04-0.98/1.18)	2-30/ 35 (0.08-1.18/ 1.38)	2-25/ 30 (0.08-0.98/ 1.18)	2-25/ 30 (0.08-0.98/ 1.18)
RF240R 6GT2 821-4AC10, RS422 6GT2 821-4AC40, RS232 (ASCII) 6GT2821-4AC32 / -4BC32, IO-Link* 	Integrated 50 x 50 x 30	2-53/ 60 (0.08-2.09/ 2.36)	1-36/ 40 (0.04-1.42/ 1.57)	1-47/ 53 (0.04-1.85/ 2.09)	1-45/ 55 (0.04-1.77/ 2.17)	1-40/48 (0.04-1.57/1.89)	1-40/48 (0.04-1.57/1.89)	2-57/ 65 (0.08-2.24/ 2.56)	2-45/ 55 (0.08-1.77/ 2.17)	2-45/ 55 (0.08-1.77/ 2.17)
RF250R ANT 1 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CB00, ANT 1 	 75 x 75 x 20	2-60/ 75 (0.08-2.36/ 2.95)	5-60/ 70 (0.20-2.36/ 2.76)	2-70/ 80 (0.08-2.76/ 3.15)	1-65/ 80 (0.04-2.56/ 3.15)	2-60/72 (0.08-2.36/2.83)	2-60/72 (0.08-2.36/2.83)	2-80/ 95 (0.08-3.15/ 3.74)	2-80/ 95 (0.08-3.15/ 3.74)	2-80/ 95 (0.08/3.15/ 3.74)
RF250R ANT 3 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CD40-0AX0, ANT 3 	 28 x 50 x 10	2-32/ 40 (0.08-1.26/ 1.57)	2-22/ 35 (0.08-0.87/ 1.38)	1-34/ 48 (0.04-1.34/ 1.89)	1-35/ 40 (0.04-1.38/ 1.57)	1-30/38 (0.04-1.18/1.49)	1-30/38 (0.04-1.18/1.49)	1-47/ 60 (0.04-1.85/ 2.36)	1-44/ 58 (0.04-1.73/ 2.28)	2-35/ 45 (0.08-1.38/ 1.77)
RF250R ANT 8 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CF10, ANT 8 	 Ø8 x 38									
RF250R ANT 12 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1DC10, ANT 12** 	 Ø12 x 40									
Accessories		Spacer (6GT2 690-0AK00)	Spacer (6GT2 690-0AK00)	Spacer (6GT2 690-0AK00)	Spacer (6GT2 690-0AK00)			Spacer (6GT2 690-0AL00)	Spacer (6GT2 690-0AL00)	Spacer (6GT2 690-0AL00)

* not with Tags D5xx ** antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DC10 (ANT12)

RF200 Family Matrix 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	D124 6GT2 600-0AC10 112 byte EEPROM  -40°C to 180°C Ø 27 x 4 IP68/ IPx9K	D324 6GT2 600-3AC00 992 byte EEPROM  -40°C to 140°C Ø 27 x 4 IP67 / IPx9K	D424 6GT2 600-4AC00 2 kbyte FRAM  -40°C to 100°C Ø 27 x 4 IP67/ IPx9K	D524 6GT2 600-5AC00 8 kbyte FRAM  -40°C to 100°C Ø 27 x 4 IP67/ IPx9K	D226s 6GT2 600-2BA00 316 byte EEPROM  -40°C to 90°C Ø 30 x 3 IP68 / IPx9K	D426s 6GT2 600-4BA00 2000 byte FRAM  -40°C to 100°C Ø 30 x 3 IP68 / IPx9K	D126 6GT2 600-0AE00 112 byte EEPROM  -40°C to 140°C Ø 50 x 3.6 IP68	D426 6GT2 600-4AH00 2 kbyte FRAM  -40°C to 90°C Ø 50 x 3.6 IP68	D526 6GT2 600-5AH00 8 kbyte FRAM  -40°C to 100°C Ø 50 x 3.6 IP68	
	RF250R ANT 18 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1DA10, ANT 18** 	 Ø18 x 40	1-28/ 32 (0.04-1.10/ 1.26)	1-24/ 27 (0.04-0.94/ 1.06)	1-30/ 34 (0.04-1.18/ 1.34)	1-26/ 30 (0.04-1.02/ 1.18)	1-25/ 30 (0.04-0.98/ 1.18)	1-25/ 30 (0.04-0.98/ 1.18)			
	RF250R ANT 30 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1DD10, ANT 30 	 Ø30 x 40	1-34/ 38 (0.08-1.34/ 1.50)	1-30/ 35 (0.04-1.18/ 1.38)	1-40/ 45 (0.04-1.57/ 1.77)	1-35/ 42 (0.04-1.38/ 1.65)	1-30/ 38 (0.04-1.18/ 1.50)	1-30/ 38 (0.04-1.18/ 1.50)	1-45/ 50 (0.04-1.77/ 1.97)	1-40/ 48 (0.04-1.57/ 1.89)	2-44/ 50 (0.08-1.73/ 1.97)
	RF260R 6GT2 821-6AC10, RS422 6GT2 821-6AC40, RS232 (ASCII) 6GT2 821-6AC32 / -6BC32, IO-Link* 	Integrated 75 x 75 x 41	2-80/ 85 (0.08-3.15/ 3.35)	2-60/ 70 (0.08-2.36/ 2.76)	2-60/ 70 (0.08-2.36/ 2.76)	2-60/ 70 (0.08-2.36/ 2.76)	2-70/85 (0.08-2.76/3.35)	2-66/80 (0.08-2.59/3.15)	2-75/ 100 (0.08-2.95/ 3.94)	2-70/ 85 (0.08-2.76/ 3.35)	2-70/ 85 (0.08-2.76/ 3.35)
	RF280R 6GT2 821-8AC10, RS422 6GT2 821-8AC40, RS232 (ASCII) 	Integrated 160 x 96 x 41	2-110/ 130 (0.08-4.33/ 5.12)	2-85/ 110 (0.08-3.35/ 4.33)	2-100/ 140 (0.08-3.94/ 5.51)	2-110/ 130 (0.08-4.33/ 5.12)	2-100/130 (0.08-3.94/5.12)	2-100/130 (0.08-3.94/5.12)	2-135/ 160 (0.08-5.31/ 6.3)	2-145/ 175 (0.08-5.71/ 6.89)	2-135/ 165 (0.08-5.31/ 6.5)
	Accessories		Spacer (6GT2 690-0AK00)	Spacer (6GT2 690-0AK00)	Spacer (6GT2 690-0AK00)	Spacer (6GT2 690-0AK00)			Spacer (6GT2 690-0AL00)	Spacer (6GT2 690-0AL00)	Spacer (6GT2 690-0AL00)

* not with Tags D5xx

** antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DA00 (ANT18) or 6GT2398-1DD00 (ANT30)

RF200 Family Matrix 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	D124 6GT2 600-0AC10 112 byte EEPROM  -40°C to 180°C Ø 27 x 4 IP68/ IPx9K	D324 6GT2 600-3AC00 992 byte EEPROM  -40°C to 140°C Ø 27 x 4 IP67 / IPx9K	D424 6GT2 600-4AC00 2 kbyte FRAM  -40°C to 100°C Ø 27 x 4 IP67/ IPx9K	D524 6GT2 600-5AC00 8 kbyte FRAM  -40°C to 100°C Ø 27 x 4 IP67/ IPx9K	D226s 6GT2 600-2BA00 316 byte EEPROM  -40°C to 90°C Ø 30 x 3 IP68 / IPx9K	D426s 6GT2 600-4BA00 2000 byte FRAM  -40°C to 100°C Ø 30 x 3 IP68 / IPx9K	D126 6GT2 600-0AE00 112 byte EEPROM  -40°C to 140°C Ø 50 x 3.6 IP68	D426 6GT2 600-4AH00 2 kbyte FRAM  -40°C to 90°C Ø 50 x 3.6 IP68	D526 6GT2 600-5AH00 8 kbyte FRAM  -40°C to 100°C Ø 50 x 3.6 IP68	
	RF290R 6GT2 821-0AC12, RS232, RS422 Accessory: Set for top rail mounting 6GK5798-8ML00-0AB3 	ANT D1  6GT2 698-5AC00 75 x 75 x 20	1-100/ 140 (0.04-3.94/ 5.51)	1-90/ 130 (0.04-3.54/ 5.12)	1-90/ 130 (0.04-3.54/ 5.12)	1-90/ 130 (0.04-3.54/ 5.12)	2-90/130 (0.08-3.54/5.12)	2-90/130 (0.08-3.54/5.12)	5-110/150 (0.20-4.34/ 5.91)	5-100/ 140 (0.20-3.94/ 5.51)	5-100/ 140 (0.20-3.94/ 5.51)
		ANT D5  6GT2 698-5AA10 380 x 380 x 110	1-200/ 280 (0.04-7.87/ 11)	1-200/ 280 (0.04-7.87/ 11)	1-200/ 280 (0.04-7.87/ 11)	1-200/ 280 (0.04-7.87/ 11)	2-200/280 (0.08-7.87/11)	2-200/280 (0.08-7.87/11)	1-350/ 400 (0.04-13.78/ 15.75)	1-300/ 350 (0.04-11.81/ 13.78)	1-300/ 350 (0.04-11.81/ 13.78)
		ANT D6  6GT2 698-5AB00 580 x 480 x 110	1-220/ 300 (0.04-8.66/ 11.81)	1-200/ 280 (0.04-7.87/ 11)	1-220/ 300 (0.04-8.66/ 11.81)	1-220/ 300 (0.04-8.66/ 11.81)	2-200/280 (0.08-7.87/11)	2-200/280 (0.08-7.87/11)	1-400/ 500 (0.04-15.75/ 19.69)	1-350/ 400 (0.04-13.78/ 15.75)	1-350/ 400 (0.04-13.78/ 15.75)
		ANT D10  6GT2 698-5AF00 1150 x 365 x 115	1-200/ 280 (0.04-7.87/ 11)	1-200/ 280 (0.04-7.87/ 11)	1-200/ 280 (0.04-7.87/ 11)	1-220/ 300 (0.04-8.66/ 11.81)	2-200/280 (0.08-7.87/11)	2-200/280 (0.08-7.87/11)	1-400/ 500 (0.04-15.75/ 19.69)	1-350/ 400 (0.04-13.78/ 15.75)	1-350/ 400 (0.04-13.78/ 15.75)
Accessories	Covering hood for ANT D6 (6GT2 690-0AD00)	Spacer (6GT2 690-0AK00)	Spacer (6GT2 690-0AK00)	Spacer (6GT2 690-0AK00)	Spacer (6GT2 690-0AK00)			Spacer (6GT2 690-0AL00)	Spacer (6GT2 690-0AL00)	Spacer (6GT2 690-0AL00)	

* not with Tags D5xx

RF200 Family Matrix 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	D423 6GT2 600-4AA00 2 kbyte FRAM  -40°C to 100°C Ø 30 x 8 IP68/ IPx9K	D425 6GT2 600-4AG00 2 kbyte FRAM  -40°C to 125°C Ø 24 x 10 IP68/ IPx9K	D525 6GT2 600-5AG00 8 kbyte FRAM  -40°C to 125°C Ø 24 x 10 IP68/ IPx9K	D428 6GT2 600-4AK00-0AX0 2 kbyte FRAM  -40°C to 125°C Ø 24 x 20 IP68/ IPx9K	D528 6GT2 600-5AK00 8 kbyte FRAM  -40°C to 125°C Ø 24 x 20 IP68/ IPx9K	D139 6GT2 600-0AA10 112 byte EEPROM  -40°C to 220°C Ø 85 x 15 IP68/IPx9K	D339 6GT2 600-3AA10 992 byte EEPROM  -40°C to 220°C Ø 85 x 15 IP68/IPx9K
RF210R/ RF210M 6GT2 821-1AC10, RS422 6GT2 821-1AC32 / -1BC32, IO-Link* 6GT2 823-0AA00, Handheld (RS422) 	Integrated M18 x 71	2-6/ 9 (0,08-0.24/ 0.35)	1-6/ 7 (0.04-0.24/ 0.28)	1-6/ 7 (0.04-0.24/ 0.28)	1-10/ 11 (0.04-0.39/ 0.43)	1-10/ 11 (0.04-0.39/ 0.43)		
RF220R 6GT2 821-2AC10, RS422 6GT2 821-2AC32 / -2BC32, IO-Link* 	Integrated M30 x 71	2-16/ 20 (0,08-0.63/0.79)	1-11/ 13 (0.04-0.43/ 0.51)	1-11/ 13 (0.04-0.43/ 0.51)	1-18/ 21 (0.04-0.71/ 0.83)	1-15/ 20 (0.04-0.59/ 0.79)		
RF240R 6GT2 821-4AC10, RS422 6GT2 821-4AC40, RS232 (ASCII) 6GT2821-4AC32 / -4BC32, IO-Link* 	Integrated 50 x 50 x 30	2-30/ 36 (0,08-1.18/ 1.42)	1-15/17 (0.04-0.59/ 0.67)	1-15/ 17 (0.04-0.59/ 0.67)	1-30/ 34 (0.04-1.18/ 1.34)	1-30/ 35 (0.04-1.18/ 1.38)		
RF250R ANT 1 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CB00, ANT 1 	 75 x 75 x 20	2-42/ 52 (0,08-1.65/ 2.05)	2-25/ 30 (0,08-0.98/ 1.18)	2-25/ 30 (0,08-0.98/ 1.18)	2-40/ 50 (0,08-1.57/ 1.97)	2-40/ 45 (0,08-1.57/ 1.77)	5-90/ 105 (0.2-3.54/ 4.13)	2-85/ 100 (0,08-3.35/ 3.94)
RF250R ANT 3 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CD40-0AX0, ANT 3 	 28 x 50 x 10	1-24/ 30 (0.04-0.95/ 1.18)	1-12/ 20 (0.04-0.47/ 0.79)	1-12/ 20 (0.04-0.47/ 0.79)	1-20/ 32 (0.04-0.79/ 1.26)	1-20/ 25 (0.04-0.79/ 0.98)		
RF250R ANT 8 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2 821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CF10, ANT 8 	 Ø8 x 38							
RF250R ANT 12 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1DC10, ANT 12** 	 Ø12 x 40		1-6/ 8 (0.04-0.24/ 0.31)	1-8/ 10 (0.04-0.31/ 0.39)	1-10/ 12 (0.04-0.39/ 0.47)	1-10/ 12 (0.04-0.39/ 0.47)		
Accessories		Mounting cover (6GT2 690-0AE00)					Spacer (6GT2 690-0AA00) Mount for quick tag exchange (6GT2 690-0AH00 - long) (6GT2 690-0AH10 - short)	Spacer (6GT2 690-0AA00) Mount for quick tag exchange (6GT2 690-0AH00 - long) (6GT2 690-0AH10 - short)

* not with Tags D5xx ** antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DC10 (ANT12)

RF200 Family Matrix 13.56 MHz Passive Tags	Antennas							
		D423 6GT2 600-4AA00 2 kbyte FRAM  -40°C to 100°C Ø 30 x 8 IP68/ IPx9K	D425 6GT2 600-4AG00 2 kbyte FRAM  -40°C to 125°C Ø 24 x 10 IP68/ IPx9K	D525 6GT2 600-5AG00 8 kbyte FRAM  -40°C to 125°C Ø 24 x 10 IP68/ IPx9K	D428 6GT2 600-4AK00-0AX0 2 kbyte FRAM  -40°C to 125°C Ø 24 x 20 IP68/ IPx9K	D528 6GT2 600-5AK00 8 kbyte FRAM  -40°C to 125°C Ø 24 x 20 IP68/ IPx9K	D139 6GT2 600-0AA10 112 byte EEPROM  -40°C to 220°C Ø 85 x 15 IP68/IPx9K	D339 6GT2 600-3AA10 992 byte EEPROM  -40°C to 220°C Ø 85 x 15 IP68/IPx9K
RF250R ANT 18 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1DA10, ANT 18** 	 Ø18 x 40	1-16/ 20 (0.04-0.63/ 0.79)	1-13/ 15 (0.04-0.51/ 0.59)	1-13/ 16 (0.04-0.51/ 0.63)	1-15/ 18 (0.04-0.59/ 0.71)	1-17/ 20 (0.04-0.67/ 0.79)		
RF250R ANT 30 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1DD10, ANT 30 	 Ø30 x 40	1-25 30 (0.04-0.98/ 1.18)	1-17/ 20 (0.04-0.67/ 0.79)		1-22/ 26 (0.04-0.87/ 1.02)	1-22/ 25 (0.04-0.87/ 0.98)		
RF260R 6GT2 821-6AC10, RS422 6GT2 821-6AC40, RS232 (ASCII) 6GT2 821-6AC32 / -6BC32, IO-Link* 	Integrated 75 x 75 x 41	2-40/ 48 (0.08-1.57/ 1.89)			2-40/ 45 (0.08-1.57/ 1.77)	2-35/ 40 (0.08-1.38/ 1.57)	2-80/ 110 (0.08-3.15/ 4.33)	5-65/ 80 (0.20-2.56/ 3.15)
RF280R 6GT2 821-8AC10, RS422 6GT2 821-8AC40, RS232 (ASCII) 	Integrated 160 x 96 x 41	5-65/ 80 (0.20-2.36/ 2.76)	2-30/ 40 (0.08-1.18/ 1.57)	2-30/ 40 (0.08-1.18/ 1.57)	2-60/ 88 (0.08-2.36/ 3.46)	2-60/ 85 (0.08-2.36/ 3.35)	5-150/ 190 (0.20-5.91/ 7.48)	5-150/ 170 (0.20-5.91/ 6.69)
Accessories		Mounting cover (6GT2 690-0AE00)					Spacer (6GT2 690-0AA00) Mount for quick tag exchange (6GT2 690-0AH00 - long) (6GT2 690-0AH10 - short)	Spacer (6GT2 690-0AA00) Mount for quick tag exchange (6GT2 690-0AH00 - long) (6GT2 690-0AH10 - short)

* not with Tags D5xx

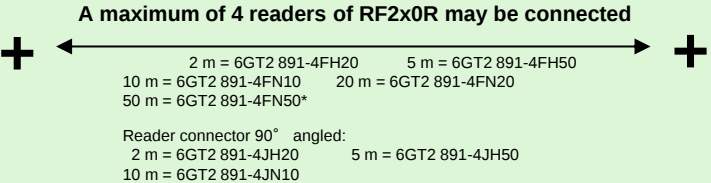
** antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DA00 (ANT18) or 6GT2398-1DD00 (ANT30)

RF200 Family Matrix 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	D423 6GT2 600-4AA00 2 kbyte FRAM  -40°C to 100°C Ø 30 x 8 IP68/ IPx9K	D425 6GT2 600-4AG00 2 kbyte FRAM  -40°C to 125°C Ø 24 x 10 IP68/ IPx9K	D525 6GT2 600-5AG00 8 kbyte FRAM  -40°C to 125°C Ø 24 x 10 IP68/ IPx9K	D428 6GT2 600-4AK00-0AX0 2 kbyte FRAM  -40°C to 125°C Ø 24 x 20 IP68/ IPx9K	D528 6GT2 600-5AK00 8 kbyte FRAM  -40°C to 125°C Ø 24 x 20 IP68/ IPx9K	D139 6GT2 600-0AA10 112 byte EEPROM  -40°C to 220°C Ø 85 x 15 IP68/IPx9K	D339 6GT2 600-3AA10 992 byte EEPROM  -40°C to 220°C Ø 85 x 15 IP68/IPx9K
	RF290R 6GT2 821-0AC12, RS232, RS422 Accessory: Set for top rail mounting 6GK5798-8ML00-0AB3 	ANT D1  6GT2 698-5AC00 75 x 75 x 20 10-60/85 (0.39-2.36/ 3.35)			1-55/ 80 (0.04-2.17/ 3.15)	1-55/ 80 (0.04-2.17/ 3.15)	5-160/ 220 (0.20-6.30/ 8.66)	5-130/170 (0.20-5.12/ 6.69)
		ANT D5  6GT2 698-5AA10 380 x 380 x 110					1-400/ 500 (0.04-15.75/ 19.69)	1-300/ 380 (0.04-11.81/ 15.00)
		ANT D6  6GT2 698-5AB00 580 x 480 x 110					1-500/ 600 (0.04-19.69/ 23.62)	1-400/ 480 (0.04-15.75/ 18.9)
		ANT D10  6GT2 698-5AF00 1150 x 365 x 115					1-450/ 550 (0.04-17.72/ 21.65)	1-300/ 380 (0.04-11.81/ 15.00)
Accessories	Covering hood for ANT D6 (6GT2 690-0AD00)	Mounting cover (6GT2 690-0AE00)					Spacer (6GT2 690-0AA00) Mount for quick tag exchange (6GT2 690-0AH00 - long) (6GT2 690-0AH10 – short)	Spacer (6GT2 690-0AA00) Mount for quick tag exchange (6GT2 690-0AH00 - long) (6GT2 690-0AH10 – short)

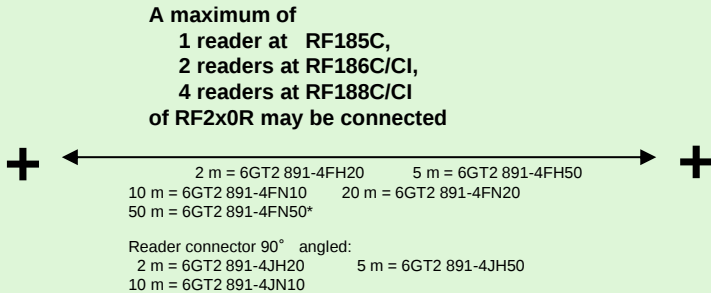
RF200 System Interfaces

RF200 System Interfaces

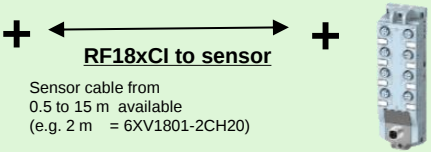
PROFINET & Ethernet/IP & TCP/IP & Modbus/TCP



PROFINET & OPC UA & Ethernet/IP & TCP/IP & Modbus/TCP



Additional IOs



Types of IO-Link
IO module
IO-extension module
(up to 8xDI + 8xDO)
6ES7 14.....
See page 95 for detailed information

New Cyclic Protocol for RF128C and RF18xC/CI

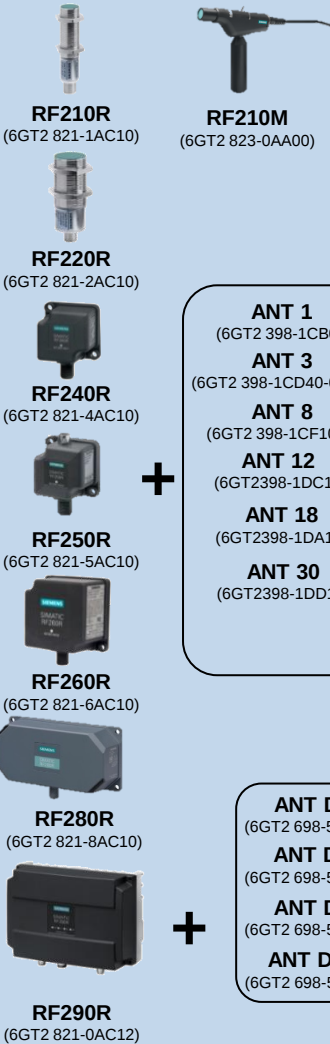
For easier 3rd Party PLC Integration (PROFINET, Ethernet/IP and Modbus/TCP)

Manual: <https://support.industry.siemens.com/cs/ww/en/view/109990046>

Cheat Sheet (one Pager for Integration): <https://support.industry.siemens.com/cs/ww/en/view/109974157>

Reader

powered through connection cable



Tags



RF200
System Interfaces

SIMATIC PLC
S7-1200


RF120C
6GT2 002-0LA00
Up to 3 x RF120C modules per S7-1200 rack

A maximum of 1 readers may be connected
RF120C to RF2x0R

2 m = 6GT2 091-4LH20 5 m = 6GT2 091-4LH50
10m = 6GT2 091-4LN10

And extension cables:
2 m = 6GT2 891-4FH20 5 m = 6GT2 891-4FH50
10 m = 6GT2 891-4FN10 20 m = 6GT2 891-4FN20
50 m = 6GT2 891-4FN50*

2 m = 6GT2 891-4JH20 Reader connector 90° angled
5 m = 6GT2 891-4JH50 Reader connector 90° angled
10 m = 6GT2 891-4JN10 Reader connector 90° angled

ET 200pro
via PROFIBUS
or PROFINET
or S7 PLC

**ET 200pro PROFIBUS DP-V1
Interface module**

**ET 200pro PROFINET
Interface module**

**ET 200pro PROFINET
CPU module**

Up to 9 x 170C
modules per
ET 200pro rack


RF170C
Communication module
(6GT2002-0HD01)
Connection block
(6GT2002-1HD01)

A maximum of 2 readers may be connected
RF170C to RF2x0R

2 m = 6GT2 891-4FH20 5 m = 6GT2 891-4FH50
10 m = 6GT2 891-4FN10 20 m = 6GT2 891-4FN20
50 m = 6GT2 891-4FN50*

Reader connector 90° angled
2 m = 6GT2 891-4JH20 5 m = 6GT2 891-4JH50
10 m = 6GT2 891-4JN10

PROFIBUS


RF166C (DP-V1)
Communication Module
(6GT2 002-0EE20)

A maximum of 2 readers may be connected
RF166C to RF2x0R

2 m = 6GT2 891-4FH20 5 m = 6GT2 891-4FH50
10 m = 6GT2 891-4FN10 20 m = 6GT2 891-4FN20
50 m = 6GT2 891-4FN50*

Reader connector 90° angled
2 m = 6GT2 891-4JH20 5 m = 6GT2 891-4JH50
10 m = 6GT2 891-4JN10

Reader

powered through connection cable


RF210R
(6GT2 821-1AC10)


RF210M
(6GT2 823-0AA00)


RF220R
(6GT2 821-2AC10)


RF240R
(6GT2 821-4AC10)


RF250R
(6GT2 821-5AC10)


RF260R
(6GT2 821-6AC10)


RF280R
(6GT2 821-8AC10)


RF290R
(6GT2 821-0AC12)

ANT 1
(6GT2 398-1CB00)
ANT 3
(6GT2 398-1CD40-0AX0)
ANT 8
(6GT2 398-1CF10)
ANT 12
(6GT2398-1DC10)
ANT 18
(6GT2398-1DA10)
ANT 30
(6GT2398-1DD10)

ANT D1
(6GT2 698-5AC00)
ANT D5
(6GT2 698-5AA10)
ANT D6
(6GT2 698-5AB00)
ANT D10
(6GT2 698-5AF00)

Tags


D100 (6GT2 600-0AD10)
D200 (6GT2 600-1AD00 -0AX0)
D400 (6GT2 600-4AD00)


D421 (6GT2 600-4AE00)
D521 (6GT2 600-5AE00)


D422 (6GT2 600-4AF00)
D522 (6GT2 600-5AF00)
D522 (6GT2 600-5AF00-0AX0)


D124 (6GT2 600-0AC10)
D324 (6GT2 600-3AC00)
D424 (6GT2 600-4AC00)
D524 (6GT2 600-5AC00)


D423 (6GT2 600-4AA00)


D425 (6GT2 600-4AG00)
D525 (6GT2 600-5AG00)


D226s (6GT2600-2BA00)
D426s (6GT2600-4BA00)

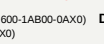

D127 (6GT2 600-4AF00)
D117 (6GT2 398-1CF00)


D428 (6GT2 600-4AK00-0AX0)
D528 (6GT2600-5AK00)


D126 (6GT2 600-0AE00)
D426 (6GT2 600-4AH00)
D526 (6GT2 600-5AH00)

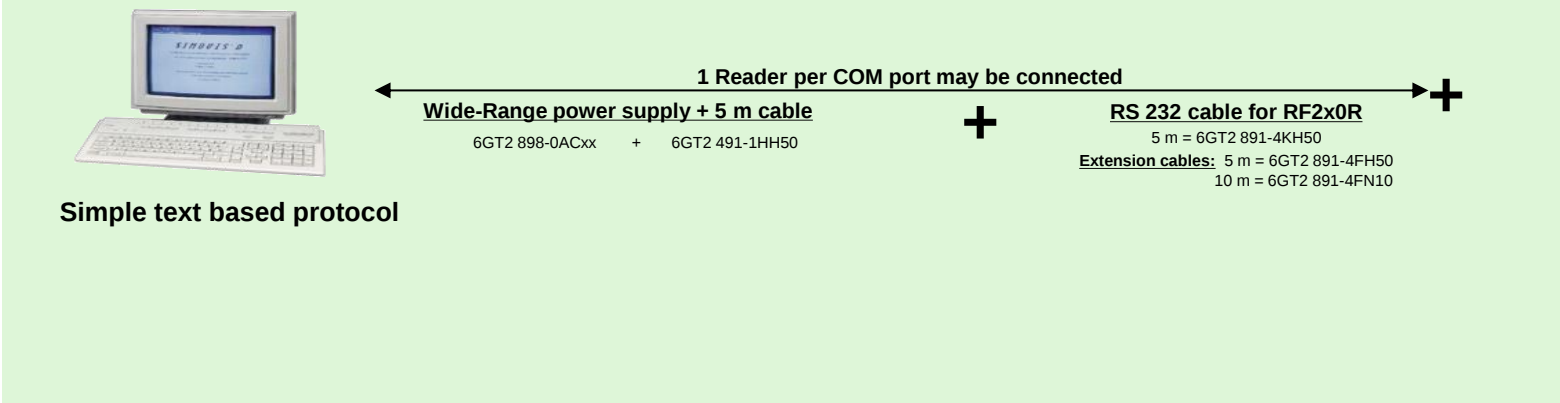

D139 (6GT2 600-0AA10)
D339 (6GT2 600-3AA10)


D160 (6GT2 600-0AB10)
D460 (6GT2 600-4AB00)
D560 (6GT2600-5AB00)

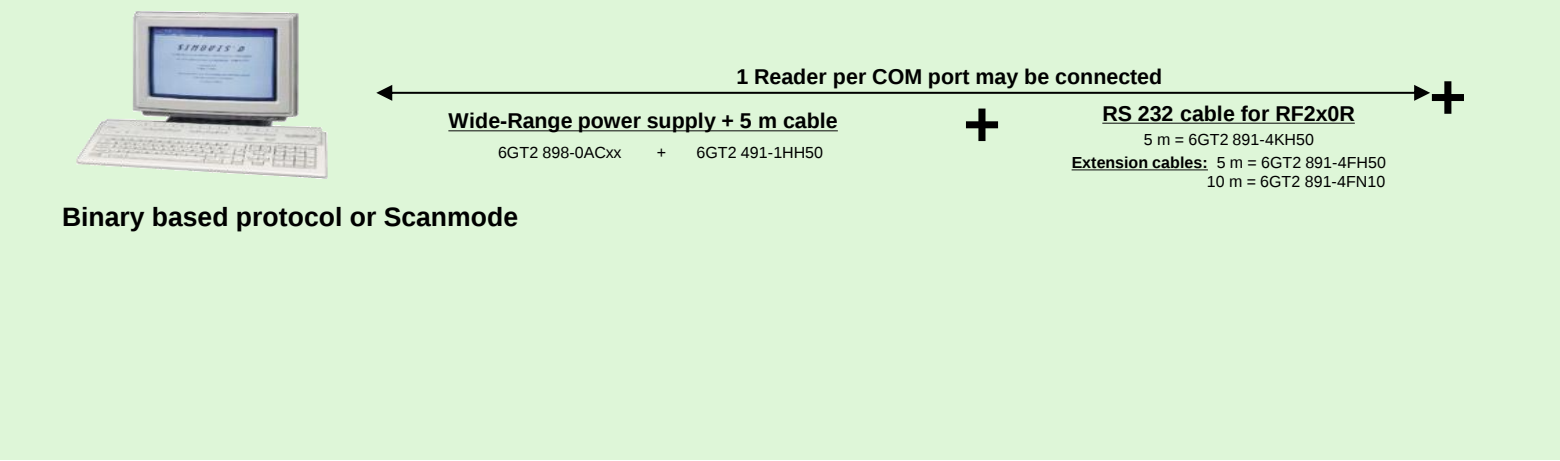

D165 (6GT2 600-1AB00-0AX0) **D261** (6GT2 600-1AA01-0AX0)

RF200
System Interfaces

RS232 / ASCII



RS232



Reader
with external power supply at Y-cable

RF240R
(6GT2 821-4AC40)

RF250R
(6GT2 821-5AC40)

RF260R
(6GT2 821-6AC40)

RF280R
(6GT2 821-8AC40)

ANT 1
(6GT2 398-1CB00)

ANT 3
(6GT2 398-1CD40-0AX0)

ANT 8
(6GT2 398-1CF10)

ANT 12
(6GT2398-1DC10)

ANT 18
(6GT2398-1DA10)

ANT 30
(6GT2398-1DD10)

Reader
with external power supply at Y-cable

RF290R
(6GT2 821-0AC12)

ANT D1
(6GT2 698-5AC00)

ANT D5
(6GT2 698-5AA10)

ANT D6
(6GT2 698-5AB00)

ANT D10
(6GT2 698-5AF00)

optional antenna cables
10 m = 6GT2691-0CN10
7.2 m extension = 6GT2691-0DH72

**do not use with D10 ; do not use with Splitter*

Tags

D100 (6GT2 600-0AD10)
D200 (6GT2 600-1AD00-0AX0)
D400 (6GT2 600-4AD00)

D421 (6GT2 600-4AE00)
D521 (6GT2 600-5AE00)

D422 (6GT2 600-4AF00)
D522 (6GT2 600-5AF00)
D522 (6GT2 600-5AF00-0AX0)

D124 (6GT2 600-0AC10)
D324 (6GT2 600-3AC00)
D424 (6GT2 600-4AC00)
D524 (6GT2 600-5AC00)

D423 (6GT2 600-4AA00)

D425 (6GT2 600-4AG00)
D525 (6GT2 600-5AG00)

D226s (6GT2600-2BA00)
D426s (6GT2600-4BA00)

D127 (6GT2 600-4AF00)
D117 (6GT2 398-1CF00)

D428 (6GT2 600-4AK00-0AX0)
D528 (6GT2600-5AK00)

D126 (6GT2 600-0AE00)
D426 (6GT2 600-4AH00)
D526 (6GT2 600-5AH00)

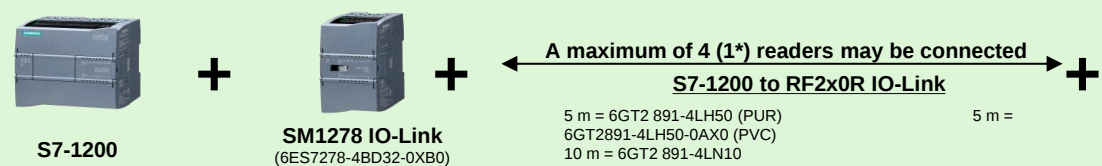
D139 (6GT2 600-0AA10)
D339 (6GT2 600-3AA10)

D160 (6GT2 600-0AB10)
D460 (6GT2 600-4AB00)
D560 (6GT2600-5AB00)

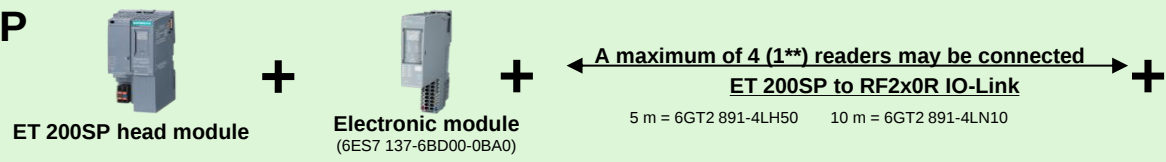
D165 (6GT2 600-1AB00-0AX0) **D261** (6GT2 600-1AA01-0AX0)

RF200
System Interfaces

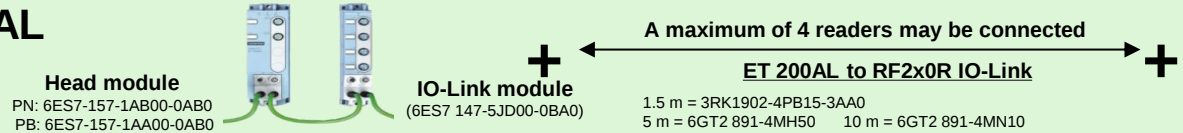
IO-Link: S7-1200



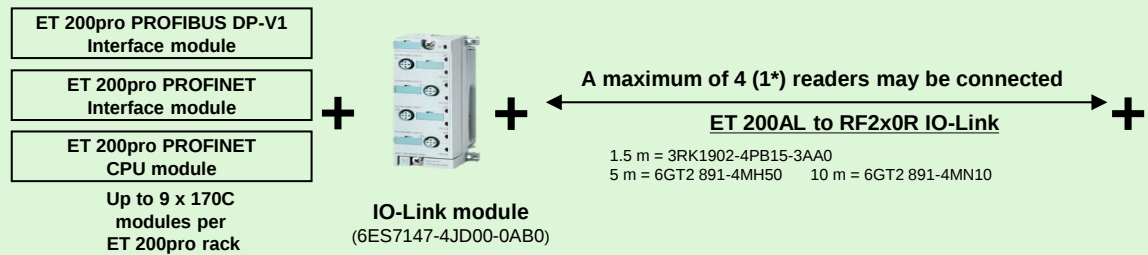
IO-Link: ET 200SP
via PROFIBUS
or PROFINET
or S7 PLC



IO-Link: ET 200AL
via PROFIBUS
or PROFINET



IO-Link: ET 200pro
via PROFIBUS
or PROFINET
or S7 PLC



*) for IO-Link reader of type 32 Byte: Some IO-Link Master permit only one or none reader per module
) in case of using a PROFIBUS head module at ET 200SP, only **one 32 Byte reader may be connected

Reader
powered through connection cable
IO-Link

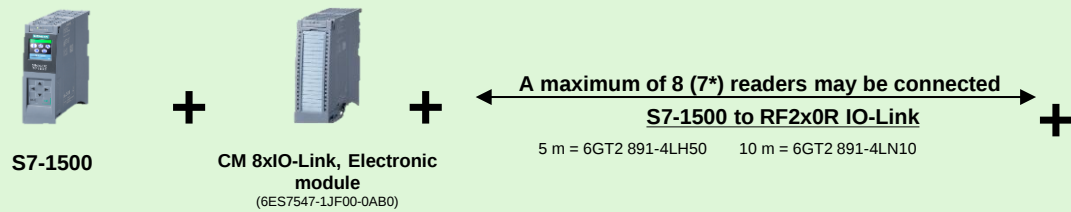
- RF210R IO-Link
6GT2 821-1AC32 (8 Byte)
6GT2 821-1BC32 (32 Byte)
 - RF220R IO-Link
6GT2 821-2AC32 (8 Byte)
6GT2 821-2BC32 (32 Byte)
 - RF240R IO-Link
6GT2 821-4AC32 (8 Byte)
6GT2 821-4BC32 (32 Byte)
 - RF250R IO-Link
6GT2 821-5AC32 (8 Byte)
6GT2 821-5BC32 (32 Byte)
 - RF260R IO-Link
6GT2 821-6AC32 (8 Byte)
6GT2 821-6BC32 (32 Byte)
- ANT 1 (6GT2 398-1CB00)
ANT 3 (6GT2 398-1CD40-0AX0)
ANT 8 (6GT2 398-1CF10)
ANT 12 (6GT2398-1DC10)
ANT 18 (6GT2398-1DA10)
ANT 30 (6GT2398-1DD10)

Tags

- D100 (6GT2 600-0AD10)
- D200 (6GT2 600-1AD00 -0AX0)
- D400 (6GT2 600-4AD00)
- D421 (6GT2 600-4AE00)
- D521 (6GT2 600-5AE00)
- D422 (6GT2 600-4AF00)
- D522 (6GT2 600-5AF00)
- D522 (6GT2 600-5AF00-0AX0)
- D124 (6GT2 600-0AC10)
- D324 (6GT2 600-3AC00)
- D424 (6GT2 600-4AC00)
- D524 (6GT2 600-5AC00)
- D423 (6GT2 600-4AA00)
- D425 (6GT2 600-4AG00)
- D525 (6GT2 600-5AG00)
- D226s (6GT2600-2BA00)
- D426s (6GT2600-4BA00)
- D127 (6GT2 600-4AF00)
- D117 (6GT2 398-1CF00)
- D428 (6GT2 600-4AK00-0AX0)
- D528 (6GT2600-5AK00)
- D126 (6GT2 600-0AE00)
- D426 (6GT2 600-4AH00)
- D526 (6GT2 600-5AH00)
- D139 (6GT2 600-0AA10)
- D339 (6GT2 600-3AA10)
- D160 (6GT2 600-0AB10)
- D460 (6GT2 600-4AB00)
- D560 (6GT2600-5AB00)
- D165 (6GT2 600-1AB00-0AX0)
- D261 (6GT2 600-1AA01-0AX0)

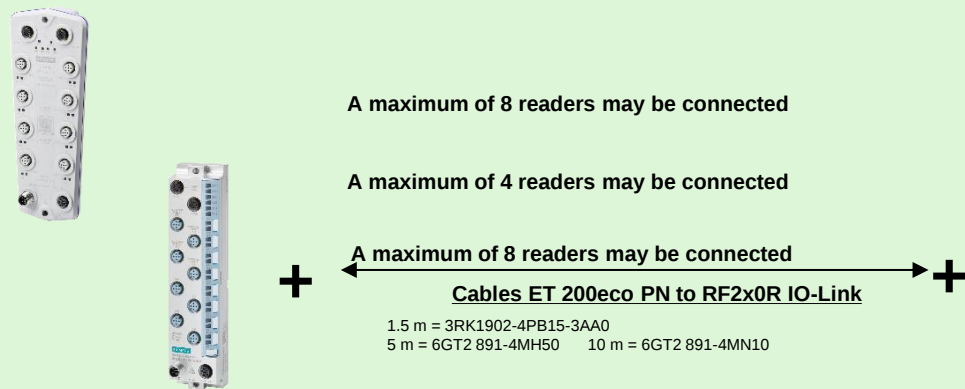
RF200
System Interfaces

IO-Link: S7-1500



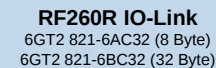
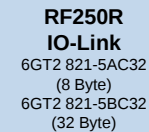
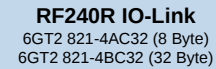
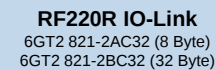
IO-Link: PROFINET

- ET 200clean CM 8xIO-Link**
(6ES7148-7JH00-0BB0)
- OR
- ET 200eco PN CM 4x IO-Link, M12-L**
(6ES7148-6JE00-0BB0)
- OR
- ET 200eco PN CM 8x IO-Link, M12-L**
(6ES7148-6JG00-0BB0)
(6ES7148-6JJ00-0BB0)



*) for IO-Link reader of type 32 Byte:
Reduced number of reader per module for some types of IO-Link Master

Reader
powered through connection cable
IO-Link



- ANT 1**
(6GT2 398-1CB00)
ANT 3
(6GT2 398-1CD40-0AX0)
ANT 8
(6GT2 398-1CF10)
ANT 12
(6GT2398-1DC10)
ANT 18
(6GT2398-1DA10)
ANT 30
(6GT2398-1DD10)

Tags



- D100** (6GT2 600-0AD10)
D200 (6GT2 600-1AD00-0AX0)
D400 (6GT2 600-4AD00)



- D421** (6GT2 600-4AE00)
D521 (6GT2 600-5AE00)



- D422** (6GT2 600-4AF00)
D522 (6GT2 600-5AF00)
D522 (6GT2 600-5AF00-0AX0)



- D124** (6GT2 600-0AC10)
D324 (6GT2 600-3AC00)
D424 (6GT2 600-4AC00)
D524 (6GT2 600-5AC00)



- D423** (6GT2 600-4AA00)



- D425** (6GT2 600-4AG00)
D525 (6GT2 600-5AG00)



- D226s** (6GT2600-2BA00)
D426s (6GT2600-4BA00)



- D127** (6GT2 600-4AF00)
D117 (6GT2 398-1CF00)



- D428** (6GT2 600-4AK00-0AX0)
D528 (6GT2600-5AK00)



- D126** (6GT2 600-0AE00)
D426 (6GT2 600-4AH00)
D526 (6GT2 600-5AH00)



- D139** (6GT2 600-0AA10)
D339 (6GT2 600-3AA10)



- D160** (6GT2 600-0AB10)
D460 (6GT2 600-4AB00)
D560 (6GT2600-5AB00)



- D165** (6GT2 600-1AB00-0AX0) **D261** (6GT2 600-1AA01-0AX0)

RF300 Family Matrix

13.56 MHz – passive tags

RF300 Family Matrix (RF300 Tags) 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	Suitable for Dynamic Operation	RF320T 6GT2 800-1CA00 20 byte EEPROM  -40°C to 140°C Ø 27 x 4 IP67 / IPX9K	RF330T 6GT2 800-5BA00 20 byte EEPROM 32 kbyte FRAM  -40°C to 100°C Ø 30 x 8 IP68 / IPX9K	RF340T 20 byte EEPROM + 6GT2 800-4BB00 8 kbyte FRAM 6GT2 800-5BB00 32 kByte FRAM  -40°C to 85°C 48 x 25 x 15 IP68 / IPX9K	RF350T 6GT2 800-5BD00 20 byte EEPROM 32 kbyte FRAM  -40°C to 85°C 50 x 50 x 20 IP68	RF360T 20 byte EEPROM + 6GT2 800-4AC00 8 kbyte FRAM 6GT2 800-5AC00 32 kbyte FRAM  -40°C to 85°C 85.8 x 54.1 x 2.5 IP67	RF370T 20 Byte EEPROM + 6GT2 800-5BE00 32 kbyte FRAM 6GT2 800-6BE00 64 kbyte FRAM  -40°C to 85°C 75 x 75 x 41 IP68 / IPX9K	RF380T 6GT2 800-5DA00 20 byte EEPROM 32 kbyte FRAM  -40°C to 220°C Ø 114 x 83 IP68
RF310R RS422 6GT2 801-1BA10 6GT2 801-1BA10-0AX1 (90° plate) 6GT2 801-1BA10-0AX2 (Ex 2C) 6GT2 801-1BA20-0AX1 (Scanmode) 	Integrated 55 x 75 x 30	YES	1-23/ 26 (0.04-0.91/ 1.02)	2-18/ 21 (0.08-0.71/ 0.83)	2-36/ 41 (0.08-1.42/ 1.61)	2-47/ 53 (0.08-1.85/ 2.09)	2-60/68 (0.08-2.36/ 2.68)	2-45/ 60 (0.08-1.77 / 2.36)	
RF340R RS422 6GT2 801-2BA10 6GT2 801-2BA10-0AX2 (Ex 2C) 	Integrated 75 x 75 x 41	YES	1-20/ 25 (0.04-0.79/ 0.98)	2-20/ 23 (0.08-0.79/ 0.91)	2-50/ 58 (0.08-1.97/ 2.28)	2-60/ 75 (0.08-2.36/ 2.95)	2-65/ 85 (0.08-2.56/ 3.35)	5-60/ 80 (0.20-2.36/ 3.15)	5-80/ 100 (0.20-3.15/ 3.94)
RF350R ANT 1 RS422 6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1CB00 (ANT 1) 	 75 x 75 x 20	YES	1-30/ 37 (0.04-1.18/ 1.46)	2-25/ 30 (0.08-0.98/ 1.18)	2-55/ 70 (0.08-2.16/ 2.76)	2-65/ 85 (0.08-2.56/ 3.35)	2-75/ 100 (0.08-2.95 / 3.94)	5-65/ 85 (0.20-2.56/ 3.35)	5-90/ 110 (0.20-3.54/ 4.33)
RF350R ANT 3 RS422 6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1CD40-0AX0 (ANT 3) 	 28 x 50 x 10	NO	1-15 / 18 (0.04-0.59/ 0.71)	1-10 / 15 (0.04-0.39/ 0.59)	2-25/ 30 (0.08-0.98/ 1.18)				
RF350R ANT 8 RS422 6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1CF10 (ANT 8) *) 	 Ø8 x 38	NO							
Accessories			Spacer (6GT2 690-0AK00)	Mounting cover (6GT2 690-0AE00)			20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)		Holder: (short: 6GT2 090-0QA00) (long: 6GT2 090-0QA00-0AX3) Cover for holder: (6GT2 090-0QB00) All Purpose Support (6GT2 590-0QA00)

* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2390-1CF00 (ANT8)

RF300 Family Matrix (RF300 Tags) 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	Suitable for Dynamic Operation	RF320T 6GT2 800-1CA00 20 byte EEPROM  -40°C to 140°C Ø 27 x 4 IP67 / IPX9K	RF330T 6GT2 800-5BA00 20 byte EEPROM 32 kbyte FRAM  -40°C to 100°C Ø 30 x 8 IP68 / IPX9K	RF340T 20 byte EEPROM + 6GT2 800-4BB00 8 kbyte FRAM 6GT2 800-5BB00 32 kByte FRAM  -40°C to 85°C 48 x 25 x 15 IP68 / IPX9K	RF350T 6GT2 800-5BD00 20 byte EEPROM 32 kbyte FRAM  -40°C to 85°C 50 x 50 x 20 IP68	RF360T 20 byte EEPROM + 6GT2 800-4AC00 8 kbyte FRAM 6GT2 800-5AC00 32 kbyte FRAM  -40°C to 85°C 85.8 x 54.1 x 2.5 IP67	RF370T 20 Byte EEPROM + 6GT2 800-5BE00 32 kbyte FRAM 6GT2 800-6BE00 64 kbyte FRAM  -40°C to 85°C 75 x 75 x 41 IP68 / IPX9K	RF380T 6GT2 800-5DA00 20 byte EEPROM 32 kbyte FRAM  -40°C to 220°C Ø 114 x 83 IP68
RF350R ANT 12 RS422 6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1DC10 (ANT 12) *) 		NO							
RF350R ANT 18 RS422 6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1DA10 (ANT 18) *) 		NO	1-10/ 13 (0.04-0.39/ 0.51)	1-11/ 13 (0.04-0.43/ 0.51)	1-18/ 22 (0.04-0.71/ 0.87)				
RF350R ANT 30 RS422 6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1DD10 (ANT 30) *) 		NO	1-15/ 20 (0.04-0.59/ 0.79)	2-15/ 18 (0.08-0.59/ 0.71)	1-25/ 30 (0.04-0.98/ 1.1 8)	1-35/ 40 (0.04-1.18/ 1.57)	2-32/ 38 (0.08-1.26/ 1.5)		
RF360R Ethernet 6GT2 801-5BA30 	Integrated 141 x 80 x 42	YES	1-20/ 25 (0.04-0.79/ 0.98)	2-18/ 23 (0.08-0.71/ 0.91)	2-50/ 58 (0.04-1.97/ 2.28)	2-60/ 75 (0.08-2.36/ 2.95)	2-65/ 85 (0.08-2.56/ 3.35)	5-60/ 80 (0.20-2.36/ 3.15)	5-80/ 100 (0.20-3.15/ 3.94)
RF380R RS422, RS232 6GT2 801-3BA10 6GT2 801-3BA10-0AX2 (Ex 2C) 	Integrated 160 x 96 x 41	YES	2-45/ 60 (0.08-1.77/ 2.36)	5-45/ 48 (0.2-1.77/ 1.89)	2-80/ 105 (0.08-3.15/ 4.13)	2-100/ 125 (0.08-3.94/ 4.92)	2-120/ 150 (0.08-4.72/ 5.91)	5-100/ 135 (0.20-3.94/ 5.31)	5-125/ 160 (0.20-4.92/ 6.30)
RF382R RS422, RS232 6GT2 801-3AB20-0AX0 	Integrated 160 x 96 x 41	YES							
Accessories			Spacer (6GT2 690-0AK00)	Mounting cover (6GT2 690-0AE00)			20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)		Holder: (short: 6GT2 090-0QA00) (long: 6GT2 090-0QA00-0AX3) Cover for holder: (6GT2 090-0QB00) All Purpose Support (6GT2 590-0QA00)

* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DC00 (ANT12), 6GT2398-1DA00 (ANT18) or 6GT2398-1DD00 (ANT30)

RF300 Family Matrix (ISO Tags) 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	D165 6GT2 600-1AB00-0AX0 112 byte EEPROM  -25°C to 80°C 86 x 54 x 0.3 IP65	D261 6GT2 600-1AA01-0AX0 316 byte EEPROM  -25°C to 85°C 55 x 55 x 0.3 IP65	D100 6GT2 600-0AD10 112 byte EEPROM  -25°C to 80°C 85,6 x 54 x 0.9 IP68	D200 6GT2 600-1AD00 -0AX0 256 byte EEPROM  -20°C to 60°C 85.6 x 54 x 0.8 IP67	D400 6GT2 600-4AD00 2 kbyte FRAM  -20°C to 60°C 85.6 x 54 x 0.8 IP67	D160 6GT2 600-0AB10 112 byte EEPROM  -40°C to 175°C Ø 16 x 3 IP68/IPx9K	D460 6GT2 600-4AB00 2 kbyte FRAM  -40°C to 100°C Ø 16 x 3 IP67/IPx9K	D560 6GT2 600-5AB00 8 kByte FRAM  -40°C to 90°C Ø 16 x 3 IP68/IPx9K
RF310R RS422 6GT2 801-1BA10 6GT2 801-1BA10-0AX1 (90° plate) 6GT2 801-1BA10-0AX2 (Ex 2C) 6GT2 801-1BA20-0AX1 (Scanmode) 	Integrated 55 x 75 x 30	2-90/ 102 (0.08-3.54/ 4.02)	2-74/ 83 (0.08-2.91/ 3.27)	2-93/ 105 (0.08-3.66/ 4.1)	2-80/ 90 (0.08-3.15/ 3.54)	2-104/ 115 (0.08-4.09/ 4.53)	1-39/ 44 (0.04-1.54/ 1.73)	1-32/ 38 (0.08-1.26/ 1.50)	
RF340R RS422 6GT2 801-2BA10 6GT2 801-2BA10-0AX2 (Ex 2C) 	Integrated 75 x 75 x 41	15-120/ 140 (0.59-4.72/ 5.51)	40-100/ 120 (1.57-3.93/ 4.72)	5-110/ 140 (0.20-4.33/ 5.51)	10-100/ 115 (0.39-3.94/ 4.53)	2-100/ 130 (0.08-3.93/ 5.12)	2-35/ 60 (0.08-1.38/ 2.36)	2-25/ 40 (0.08-0.98/ 1.57)	
RF350R ANT 1 RS422 6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1CB00 (ANT 1) 	 75 x 75 x 20	5-100/ 120 (0.20-3.94/ 4.72)	5-80/ 95 (0.20-3.15/ 3.74)	5-110/ 140 (0.20-4.33/ 5.51)	5-95/ 115 (0.20-3.74/ 4.53)	2-110/ 135 (0.08-4.33/ 5.31)	2-35/ 60 (0.08-1.38/ 2.36)	2-32/ 38 (0.08-1.26/ 1.50)	
RF350R ANT 3 RS422 6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1CD40-0AX0 (ANT 3) 	 28 x 50 x 10						1-28/ 35 (0.04-1.10/ 1.38)	1-20/ 28 (0.04-0.79/ 1.10)	
RF350R ANT 8 RS422 6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1CF10 (ANT 8 *) 	 Ø8 x 38								
Accessories				Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)	Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)	Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)	Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00)	Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00)	Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00)

* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2390-1CF00 (ANT8)

RF300 Family Matrix (ISO Tags) 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	D165 6GT2 600-1AB00-0AX0 112 byte EEPROM  -25°C to 80°C 86 x 54 x 0.3 IP65	D261 6GT2 600-1AA01-0AX0 316 byte EEPROM  -25°C to 85°C 55 x 55 x 0.3 IP65	D100 6GT2 600-0AD10 112 byte EEPROM  -25°C to 80°C 85,6 x 54 x 0.9 IP68	D200 6GT2 600-1AD00 -0AX0 256 byte EEPROM  -20°C to 60°C 85.6 x 54 x 0.8 IP67	D400 6GT2 600-4AD00 2 kbyte FRAM  -20°C to 60°C 85.6 x 54 x 0.8 IP67	D160 6GT2 600-0AB10 112 byte EEPROM  -40°C to 175°C Ø 16 x 3 IP68/IPx9K	D460 6GT2 600-4AB00 2 kbyte FRAM  -40°C to 100°C Ø 16 x 3 IP67/IPx9K	D560 6GT2 600-5AB00 8 kByte FRAM  -40°C to 90°C Ø 16 x 3 IP68/IPx9K
RF350R ANT 12 RS422  6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1DC10 (ANT 12) *)	 Ø12 x 40						0-8/ 12 (0.0-0.31/ 0.47)	1-8/ 10 (0.04-0.31/ 0.39)	
RF350R ANT 18 RS422  6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1DA10 (ANT 18) *)	 Ø18 x 40						1-18/ 20 (0.04-0.71/ 0.79)	1-12/ 16 (0.04-0.47/ 0.63)	1-8/10 (0.04-0.31/ 0.39)
RF350R ANT 30 RS422  6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1DD10 (ANT 30) *)	 Ø30 x 40						1-24/ 28 (0.04-0.94/ 1.10)	1-18/ 20 (0.04-0.71/ 0.79)	1-12/16 (0.04-0.47/ 0.63)
RF360R Ethernet  6GT2 801-5BA30	Integrated 141 x 80 x 42			5-110/ 140 (0.20-4.33/ 5.51)	10-100/ 115 (0.39-3.94/ 4.5pass3)	2-100/ 125 (0.08-3.94/ 4.92)			
RF380R RS422, RS232  6GT2 801-3BA10 6GT2 801-3BA10-0AX2 (Ex 2C)	Integrated 160 x 96 x 41	10-170/ 200 (0.39-6.69/ 7.87)	20-120/ 160 (0.79-4.72/ 6.30)	10-170/ 210 (0.39-6.69/ 8.27)	20-150/195 (0.79-5.90/ 7.67)	10-165/ 185 (0.39-4.50/ 7.28)	2-64/ 80 (0.08-2.52/ 3.15)	2-65/ 90 (0.08-2.56/ 3.54)	
RF382R RS422, RS232  6GT2 801-3AB20-0AX0	Integrated 160 x 96 x 41						35-50/ 65 (1.38-1.97/ 2.56)	35-50/ 60 (1.38-1.97/ 2.36)	
Accessories				Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)	Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)	Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)	Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00)	Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00)	Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00)

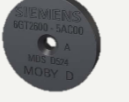
* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DC00 (ANT12), 6GT2398-1DA00 (ANT18) or 6GT2398-1DD00 (ANT30)

RF300 Family Matrix (ISO Tags) 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	D117 6GT2 600-0AG00 112 byte EEPROM  -40°C to 125°C Ø4 x 5.2 IP68 / IPx9K	D127 6GT2 600-0AF00 112 byte EEPROM  -40°C to 125°C Ø 6 x 5.8 IP68 / IPx9K	D421 6GT2 600-4AE00 2 kbyte FRAM  -40°C to 100°C Ø10 x 4.5 IP67/ IPx9K	D521 6GT2 600-5AE00 8 kByte FRAM  -40°C to 100°C Ø 10 x 4.5 IP67 / IPx9K	D422 6GT2 600-4AF00 2 kbyte FRAM  -40°C to 100°C Ø20 x 6 IP68	D522 6GT2 600-5AF00 8 kByte FRAM 6GT2600-5AF00-0AX0 8 kByte FRAM  -40°C to 100°C Ø 20 x 6 ; Ø 18 x 5.2 IP68
RF310R RS422 6GT2 801-1BA10 6GT2 801-1BA10-0AX1 (90° plate) 6GT2 801-1BA10-0AX2 (Ex 2C) 6GT2 801-1BA20-0AX1 (Scanmode)	 Integrated 55 x 75 x 30						
RF340R RS422 6GT2 801-2BA10 6GT2 801-2BA10-0AX2 (Ex 2C)	 Integrated 75 x 75 x 41						
RF350R ANT 1 RS422 6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1CB00 (ANT 1)	 75 x 75 x 20						
RF350R ANT 3 RS422 6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1CD40-0AX0 (ANT 3)	 28 x 50 x 10					1-11/18 (0.04-0.43/ 0.71)	1-19/22 (0.04-0.75/ 0.87)
RF350R ANT 8 RS422 6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1CF10 (ANT 8) *)	 Ø8 x 38	0-4/5 (0.0-0.16/0.19)	0-4/5 (0.0-0.16/0.19)	0-3/4 (0.0-0.12/0.16)	0-3/4 (0.0-0.12/0.16)		
Accessories							

* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2390-1CF00 (ANT8)

RF300 Family Matrix (ISO Tags) 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	D117 6GT2 600-0AG00 112 byte EEPROM  -40°C to 125°C Ø4 x 5.2 IP68 / IPx9K	D127 6GT2 600-0AF00 112 byte EEPROM  -40°C to 125°C Ø 6 x 5.8 IP68 / IPx9K	D421 6GT2 600-4AE00 2 kbyte FRAM  -40°C to 100°C Ø10 x 4.5 IP67/ IPx9K	D521 6GT2 600-5AE00 8 kByte FRAM  -40°C to 100°C Ø 10 x 4.5 IP67 / IPx9K	D422 6GT2 600-4AF00 2 kbyte FRAM  -40°C to 100°C Ø20 x 6 IP68	D522 6GT2 600-5AF00 6GT2600-5AF00-0AX0 8 kByte FRAM  -40°C to 100°C Ø 20 x 6 ; Ø 18 x 5.2 IP68
RF350R ANT 12 RS422 6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1DC10 (ANT 12) *) 	 Ø12 x 40	0-6/ 7 (0.0-0.24/ 0.28)	0-6/ 7 (0-0.24/ 0.28)				
RF350R ANT 18 RS422 6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1DA10 (ANT 18) *) 	 Ø18 x 40	0-7/ 9 (0.-0.28/ 0.24)	0-7/ 9 (0.-0.28/ 0.35)			1-10/ 13 (0.04-0.39/ 0.51)	1-10/13 (0.04-0.39/ 0.51)
RF350R ANT 30 RS422 6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1DD10 (ANT 30) *) 	 Ø30 x 40					1-14/ 16 (0.04-0.55/ 0.63)	1-15/ 18 (0.04-0.59/ 0.70)
RF360R Ethernet 6GT2 801-5BA30 	Integrated 141 x 80 x 42						
RF380R RS422, RS232 6GT2 801-3BA10 6GT2 801-3BA10-0AX2 (Ex 2C) 	Integrated 160 x 96 x 41						
RF382R RS422, RS232 6GT2 801-3AB20-0AX0 	Integrated 160 x 96 x 41						
Accessories							

* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DC00 (ANT12), 6GT2398-1DA00 (ANT18) or 6GT2398-1DD00 (ANT30)

RF300 Family Matrix (ISO Tags) 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	D124 6GT2 600-0AC10 112 byte EEPROM  -40°C to 180°C Ø 27 x 4 IP68 / IPx9K	D324 6GT2 600-3AC00 992 byte EEPROM  -40°C to 140°C Ø 27 x 4 IP67 / IPx9K	D424 6GT2 600-4AC00 2 kbyte FRAM  -40°C to 100°C Ø 27 x 4 IP67/ IPx9K	D524 6GT2 600-5AC00 8 kByte FRAM  -40°C to 100°C Ø 27 x 4 IP67 / IPx9K	D226s 6GT2 600-2BA00 316 byte EEPROM  -40°C to 90°C Ø 30 x 3 IP68 / IPx9K	D426s 6GT2 600-4BA00 2000 byte FRAM  -40°C to 100°C Ø 30 x 3 IP68 / IPx9K	D126 6GT2 600-0AE00 112 byte EEPROM  -40°C to 140°C Ø 50 x 3.6 IP68	D426 6GT2 600-4AH00 2 kbyte FRAM  -40°C to 90°C Ø 50 x 3.6 IP68	D526 6GT2 600-5AH00 8 kByte FRAM  -40°C to 100°C Ø 50 x 3.6 IP68
RF310R RS422  6GT2 801-1BA10 6GT2 801-1BA10-0AX1 (90° plate) 6GT2 801-1BA10-0AX2 (Ex 2C) 6GT2 801-1BA20-0AX1 (Scanmode)	Integrated 55 x 75 x 30	2-64/ 72 (0.08-2.52/ 2.83)	2-64/ 72 (0.08-2.52/ 2.83)	1-68/ 75 (0.04-2.68/ 2.95)	1-70/78 (0.04-2.76/ 3.07)	1-66/80 (0.04-2.60/ 3.15)	1-62/75 (0.04-2.44/ 2.95)	2-65/ 73 (0.08-2.56/ 2.87)	5-75/ 90 (0.2-2.95/ 3.54)	5-80/90 (0.2-3.14/ 3.54)
RF340R RS422  6GT2 801-2BA10 6GT2 801-2BA10-0AX2 (Ex 2C)	Integrated 75 x 75 x 41	2-60/ 75 (0.08-2.36/ 2.95)	2-55/ 70 (0.08-2.17/ 2.76)	2-55/ 70 (0.08-2.17/ 2.76)	2-55/70 (0.08-2.16/ 2.76)	2-72/90 (0.08-2.83/ 3.54)	2-72/90 (0.08-2.83/ 3.54)	2-85/ 110 (0.08-3.34/ 4.33)	1-80/ 100 (0.04-3.15/ 3.94)	1-80/100 (0.04-3.15/ 3.94)
RF350R ANT 1 RS422  6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1CB00 (ANT 1)	 75 x 75 x 20	2-65/ 85 (0.08-2.56/ 3.35)	2-66/ 78 (0.08-2.60/ 3.07)	2-75/ 88 (0.08-2.95/ 3.46)	2-65/85 (0.08-2.56/ 3.35)	2-80/100 (0.08-3.15/ 3.94)	2-75/95 (0.08-2.95/ 3.74)	2-90/ 120 (0.08-3.54/ 4.72)	2-85/ 95 (0.08-3.35/ 3.74)	1-85/105 (0.04-3.35/ 4.13)
RF350R ANT 3 RS422  6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1CD40-0AX0 (ANT 3)	 28 x 50 x 10	1-35/ 42 (0.04-1.38/ 1.65)	1-22/ 32 (0-0.04/ 1.26)	1-40/ 48 (0.04-1.57/ 1.89)	5-46/50 (0.2-1.81/ 1.97)	1-40/50 (0.04-1.57/ 1.97)	1-40/50 (0.04-1.57/ 1.97)			
RF350R ANT 8 RS422  6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1CF10 (ANT 8) *)	 Ø8 x 38									
Accessories		Spacer (6GT2 690-0AK00)	Spacer (6GT2 690-0AK00)	Spacer (6GT2 690-0AK00)	Spacer (6GT2 690-0AK00)			Spacer (6GT2 690-0AL00)	Spacer (6GT2 690-0AL00)	Spacer (6GT2 690-0AL00)

* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2390-1CF00 (ANT8)

RF300 Family Matrix (ISO Tags) 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	D124 6GT2 600-0AC10 112 byte EEPROM  -40°C to 180°C Ø 27 x 4 IP68 / IPx9K	D324 6GT2 600-3AC00 992 byte EEPROM  -40°C to 140°C Ø 27 x 4 IP67 / IPx9K	D424 6GT2 600-4AC00 2 kbyte FRAM  -40°C to 100°C Ø 27 x 4 IP67 / IPx9K	D524 6GT2 600-5AC00 8 kByte FRAM  -40°C to 100°C Ø 27 x 4 IP67 / IPx9K	D226s 6GT2 600-2BA00 316 byte EEPROM  -40°C to 90°C Ø 30 x 3 IP68 / IPx9K	D426s 6GT2 600-4BA00 2000 byte FRAM  -40°C to 100°C Ø 30 x 3 IP68 / IPx9K	D126 6GT2 600-0AE00 112 byte EEPROM  -40°C to 140°C Ø 50 x 3.6 IP68	D426 6GT2 600-4AH00 2 kbyte FRAM  -40°C to 90°C Ø 50 x 3.6 IP68	D526 6GT2 600-5AH00 8 kByte FRAM  -40°C to 100°C Ø 50 x 3.6 IP68
RF350R ANT 12 RS422  6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1DC10 (ANT 12) *)	 Ø12 x 40									
RF350R ANT 18 RS422  6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1DA10 (ANT 18) *)	 Ø18 x 40	2-24/ 28 (0.08-0.94/ 1.10)	1-22/ 28 (0.04-0.87/ 1.1)	1-27/ 35 (0.04-1.06/ 1.38)	1-27/35 (0.04-1.06/ 1.38)	1-35/42 (0.04-1.38/ 1.65)	1-33/40 (0.04-1.30/ 1.57)			
RF350R ANT 30 RS422  6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1DD10 (ANT 30) *)	 Ø30 x 40	1-35/ 40 (0.04-1.38/ 1.57)	1-35/ 40 (0.04-1.38/ 1.57)	1-45/ 50 (0.04-1.77/ 1.97)	1-45/ 50 (0.04-1.77/ 1.97)	1-48/ 58 (0.04-1.89/ 2.28)	1-44/ 52 (0-0.41.73/ 2.04)	1-42/ 50 (0-1.65/ 1.97)		
RF360R Ethernet  6GT2 801-5BA30	Integrated 141 x 80 x 42	2-60/ 75 (0.08-2.36/ 2.95)	2-55/ 70 (0.08-2.17/ 2.76)	2-55/ 70 (0.08-2.17/ 2.76)	2-55/ 70 (0.08-2.17/ 2.76)	2-70/ 84 (0.08-2.76/ 3.31)	2-70/ 84 (0.08-2.76/ 3.31)	2-85/ 110 (0.08-3.35/ 4.33)	1-80/ 100 (0.04-3.15/ 3.94)	1-80/ 100 (0.04-3.15/ 3.94)
RF380R RS422, RS232  6GT2 801-3BA10 6GT2 801-3BA10-0AX2 (Ex 2C)	Integrated 160 x 96 x 41	1-120/ 140 (0.04-4.72/ 5.51)	2-96/ 120 (0.08-3.78/ 4.72)	2-120/ 140 (0.08-4.72/ 5.51)	2-115/ 130 (0.08-4.52/ 5.12)	2-105/ 130 (0.08-4.13/ 5.12)	2-105/ 130 (0.08-4.13/ 5.12)	2-145/ 190 (0.08-5.71/ 7.48)	2-155/ 195 (0.08-6.1/ 7.68)	2-155/ 195 (0.08-6.10/ 7.68)
RF382R RS422, RS232  6GT2 801-3AB20-0AX0	Integrated 160 x 96 x 41	40-65/ 75 (1.57-2.56/ 2.95)	40-65/ 75 (1.57-2.56/ 2.95)	40-65/ 75 (1.57-2.56/ 2.95)						
Accessories		Spacer (6GT2 690-0AK00)	Spacer (6GT2 690-0AK00)	Spacer (6GT2 690-0AK00)	Spacer (6GT2 690-0AK00)			Spacer (6GT2 690-0AL00)	Spacer (6GT2 690-0AL00)	Spacer (6GT2 690-0AL00)

* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DC00 (ANT12), 6GT2398-1DA00 (ANT18) or 6GT2398-1DD00 (ANT30)

RF300 Family Matrix (ISO Tags) 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	D423 6GT2 600-4AA00 2 kbyte FRAM  -40°C to 100°C Ø 30 x 8 IP68/ IPx9K	D425 6GT2 600-4AG00 2 kbyte FRAM  -40°C to 125°C Ø 24 x 10 IP68 / IPx9K	D525 6GT2 600-5AG00 8 kbyte FRAM  -40°C to 125°C Ø 24 x 10 IP68 / IPx9k	D428 6GT2 600-4AK00-0AX0 2 kbyte FRAM  -40°C to 125°C Ø 24 x 20 IP68 / IPx9K	D528 6GT2 600-5AK00 8 kByte FRAM  -40°C to 125°C Ø 24 x 20 IP68/IPx9K	D139 6GT2 600-0AA10 112 byte EEPROM  -40°C to 220°C Ø 85 x 15 IP68 / IPx9K	D339 6GT2600-3AA10 992 byte EEPROM  -40°C to 220°C Ø 85 x 15 IP68 / IPx9K
RF310R RS422  6GT2 801-1BA10 6GT2 801-1BA10-0AX1 (90° plate) 6GT2 801-1BA10-0AX2 (Ex 2C) 6GT2 801-1BA20-0AX1 (Scanmode)	Integrated	2-35/ 46	1-22/ 25	1-22/25	1-40/ 45	1-43/48	5-96/ 109	5-74/ 84
RF340R RS422  6GT2 801-2BA10 6GT2 801-2BA10-0AX2 (Ex 2C)	Integrated	5-40/ 48	2-20/ 30	2-20/30	2-40/ 50	2-40/50	5-80/ 110	5-75/ 85
RF350R ANT 1 RS422  6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1CB00 (ANT 1)		10-48/ 60	2-23/ 32	2-25/35	2-40/ 50	2-35/50	5-85/ 115	5-90/ 105
RF350R ANT 3 RS422  6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1CD40-0AX0 (ANT 3)		5-20/ 30	2-18/ 22	2-21/24	2-28/ 30	2-24/26		
RF350R ANT 8 RS422  6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1CF10 (ANT 8) *								
Accessories		Mounting cover (6GT2 690-0AE00)						Spacer (6GT2 690-0AA00) Mount for quick tag exchange (6GT2 690-0AH00 - long) (6GT2 690-0AH10 – short)

* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DE00 (ANT32) or 6GT2398-1DA00 (ANT18)

RF300 Family Matrix (ISO Tags) 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	D423 6GT2 600-4AA00 2 kbyte FRAM  -40°C to 100°C Ø 30 x 8 IP68/ IPx9K	D425 6GT2 600-4AG00 2 kbyte FRAM  -40°C to 125°C Ø 24 x 10 IP68 / IPx9K	D525 6GT2 600-5AG00 8 kbyte FRAM  -40°C to 125°C Ø 24 x 10 IP68 / IPx9k	D428 6GT2 600-4AK00-0AX0 2 kbyte FRAM  -40°C to 125°C Ø 24 x 20 IP68 / IPx9K	D528 6GT2 600-5AK00 8 kByte FRAM  -40°C to 125°C Ø 24 x 20 IP68/IPx9K	D139 6GT2 600-0AA10 112 byte EEPROM  -40°C to 220°C Ø 85 x 15 IP68 / IPx9K	D339 6GT2600-3AA10 992 byte EEPROM  -40°C to 220°C Ø 85 x 15 IP68 / IPx9K
RF350R ANT 12 RS422  6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1DC10 (ANT 12) *)	 Ø12 x 40				1-10/ 17 (0.04-0.39/ 0.67)	1-10/17 (0.04-0.40/ 0.67)		
RF350R ANT 18 RS422  6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1DA10 (ANT 18) *)	 Ø18 x 40		1-10/ 14 (0.04-0.39/ 0.55)	1-10/14 (0.04-0.39/ 0.55)	1-15/ 20 (0.04-0.59/ 0.79)	1-15/20 (0.04-0.59/ 0.79)		
RF350R ANT 30 RS422  6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1DD10 (ANT 30) *)	 Ø30 x 40	5-22/ 28 (0.2-0.87/ 1.10)	1-15/ 20 (0.04-0.59/ 0.79)	1-15/ 20 (0.04-0.59/ 0.79)	1-25/ 28 (0.04-0.98/ 1.10)	1-25/ 28 (0.04-0.98/ 1.10)		
RF360R Ethernet  6GT2 801-5BA30	Integrated 141 x 80 x 42	5-42/ 50 (0.2-1.65/1.97)					5-80/ 110 (0.2-3.15/ 4.33)	5-75/ 85 (0.2-2.95/ 3.35)
RF380R RS422, RS232  6GT2 801-3BA10 6GT2 801-3BA10-0AX2 (Ex 2C)	Integrated 160 x 96 x 41	5-75/ /83 (0.2-2.95/ 3.27)	2-35/ 50 (0.08-1.38/ 1.97)	2-35/ 50 (0.08-1.38/ 1.97)	2-70/ 95 (0.08-2.76/ 3.74)	2-70/ 95 (0.08-2.76/ 3.74)	5-200/ 230 (0.20-7.87/ 9.05)	17-160/ 180 (0.67-6.30/ 7.09)
RF382R RS422, RS232  6GT2 801-3AB20-0AX0	Integrated 160 x 96 x 41							
Accessories		Mounting cover (6GT2 690-0AE00)					Spacer (6GT2 690-0AA00) Mount for quick tag exchange (6GT2 690-0AH00 - long) (6GT2 690-0AH10 – short)	

* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DC00 (ANT12), 6GT2398-1DA00 (ANT18) or 6GT2398-1DD00 (ANT30)

RF300 Family Matrix (MOBY E compatibility) 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	E600 6GT2 300-0AA00 752 byte EEPROM  -25°C to 60°C 86 x 54 x 0.76 IP68	E611 6GT2 300-0BB00 752 byte EEPROM  -40°C to 85°C 86 x 54 x 2.5 IP67	E623 6GT2 300-0CD00 752 byte EEPROM  -40°C to 100°C Ø10 x 4.5 IP67/ IPx9K	E624 6GT2 300-0CE00 752 byte EEPROM  -40°C to 150°C Ø 27 x 4 IP67/ IPx9K
RF310R RS422  6GT2 801-1BA10 6GT2 801-1BA10-0AX1 (90° plate) 6GT2 801-1BA10-0AX2 (Ex 2C) 6GT2 801-1BA20-0AX1 (Scanmode)	Integrated 55 x 75 x 30	2-30/ 43 (0.08-1.18/ 1.69)	2-40/ 60 (0.08-1.57/ 2.36)		2-25/ 36 (0.08-0.98/ 1.42)
RF340R RS422  6GT2 801-2BA10 6GT2 801-2BA10-0AX2 (Ex 2C)	Integrated 75 x 75 x 41	5-50/ 65 (0.2-1.97/ 2.56)	10-50/ 65 (0.39-1.97/ 2.56)		2-35/ 45 (0.08-1.37/ 1.77)
RF350R ANT 1 RS422  6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1CB00 (ANT 1)	 75 x 75 x 20	10-50/ 60 (0.39-1.97/ 2.36)	20-50/ 65 (0.79-1.97/ 2.56)		2-35/ 45 (0.08-1.37/ 1.77)
RF350R ANT 3 RS422  6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1CD40-0AX0 (ANT 3)	 28 x 50 x 10				1-15/ 16 (0.04-0.59/ 0.63)
RF350R ANT 8 RS422  6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1CF10 (ANT 8) *)	 Ø8 x 38				
Accessories		Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)	Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)		Spacer (6GT2 690-0AK00)

* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2390-1CF00 (ANT8)

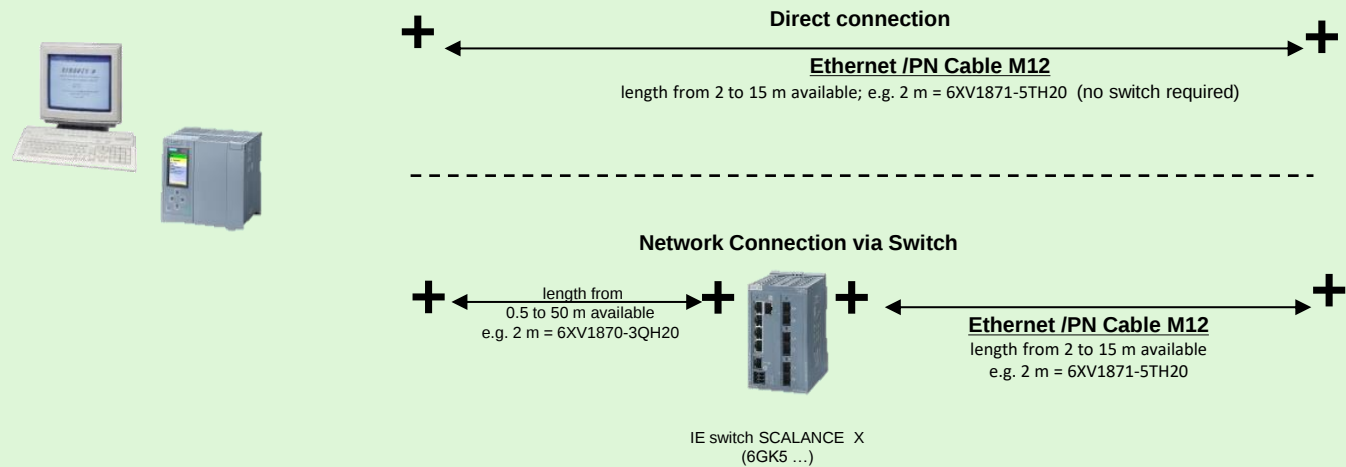
RF300 Family Matrix (MOBY E compatibility) 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	Antennas	E600 6GT2 300-0AA00 752 byte EEPROM  -25°C to 60°C 86 x 54 x 0.76 IP68	E611 6GT2 300-0BB00 752 byte EEPROM  -40°C to 85°C 86 x 54 x 2.5 IP67	E623 6GT2 300-0CD00 752 byte EEPROM  -40°C to 100°C Ø10 x 4.5 IP67/ IPx9K	E624 6GT2 300-0CE00 752 byte EEPROM  -40°C to 150°C Ø 27 x 4 IP67/ IPx9K
RF350R ANT 12 RS422  6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1DC10 (ANT 12) *)	 Ø12 x 40			0-3/ 4 (0-0.12/ 0.16)	
RF350R ANT 18 RS422  6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1DA10 (ANT 18) *)	 Ø18 x 40			0-6/ 8 (0-0.24/ 0.31)	2-10/ 15 (0.08-0.40/ 0.59)
RF350R ANT 30 RS422  6GT2 801-4BA10 6GT2 801-4BA10-0AX2 (Ex 2C) 6GT2 398-1DD10 (ANT 30) *)	 Ø30 x 40				1-20/ 24 (0.04-0.79/ 0.94)
RF360R Ethernet  6GT2 801-5BA30	Integrated 141 x 80 x 42				
RF380R RS422, RS232  6GT2 801-3BA10 6GT2 801-3BA10-0AX2 (Ex 2C)	Integrated 160 x 96 x 41	10-80/ 95 (0.39-3.15/ 3.74)	10-115/ 135 (0.39-4.53/ 5.31)		5-50/ 60 (0.20-1.97/ 2.36)
RF382R RS422, RS232  6GT2 801-3AB20-0AX0	Integrated 160 x 96 x 41				
Accessories		Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)	Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)		Spacer (6GT2 690-0AK00)

* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DC00 (ANT12), 6GT2398-1DA00 (ANT18) or 6GT2398-1DD00 (ANT30)

RF300 System Interfaces

RF300 System Interfaces

PROFINET & OPC UA & Ethernet/IP & TCP/IP & Modbus/TCP



New Cyclic Protocol for RF360R

For easier 3rd Party PLC Integration (PROFINET, Ethernet/IP and Modbus/TCP)

Manual: <https://support.industry.siemens.com/cs/ww/en/view/109973702>

Cheat Sheet (one Pager for Integration): <https://support.industry.siemens.com/cs/ww/en/view/109974157>

Reader with external power supply



RF360R
6GT2801-5BA30

Power supply

EU connector
6GT2 898-0AC00

UK connector
6GT2 898-0AC10

US connector
6GT2 898-0AC20

cable 24 V for power supply
5 m = 6GT2 091-0PH50

cable M12 L-coded
180° = 6XV1801-6Dxxx*
90° = 6XV1801-6Gxxx*

Cover caps
3RX9 802-0AA00

* More details on page 90

Tags



RF320T
(6GT2 800-1CA00)



RF330T
(6GT2 800-5BA00)



RF340T
(8 kb: 6GT2 800-4BB00)
(32 kb: 6GT2 800-5BB00)



RF350T
(6GT2 800-5BD00)



RF360T
(8 kb: 6GT2 800-4AC00)
(32 kb: 6GT2 800-5AC00)



RF370T
(32 kb: 6GT2 800-5BE00)
(64 kb: 6GT2 800-6BE00)



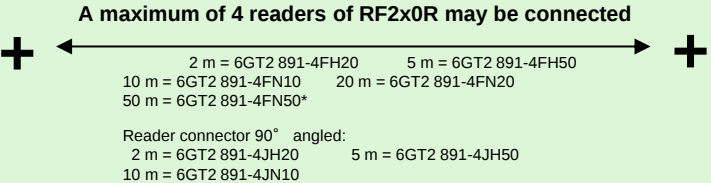
RF380T
(6GT2 800-5DA00)

ISO TAGs

- D100** 6GT2 600-0AD10
- D200** 6GT2 600-1AD00-0AX0
- D400** 6GT2 600-4AD00
- D124** 6GT2 600-0AC10
- D324** 6GT2 600-3AC00
- D424** 6GT2 600-4AC00
- D524** 6GT2 600-5AC00
- D226s** 6GT2600-2BA00
- D426s** 6GT2600-4BA00
- D126** 6GT2 600-0AE00
- D426** 6GT2 600-4AH00
- D526** 6GT2 600-5AH00
- D139** 6GT2 600-0AA10
- D339** 6GT2 600-3AA10

RF300
System Interfaces

PROFINET & Ethernet/IP & TCP/IP & Modbus/TCP



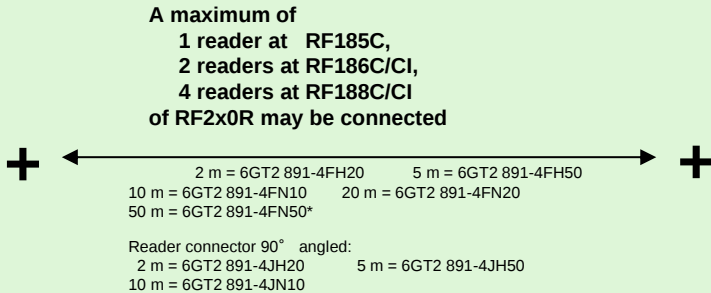
PROFINET & OPC UA & Ethernet/IP & TCP/IP & Modbus/TCP



RF185C
(6GT2 002-0JE10)

RF186C
(6GT2 002-0JE20)

RF188C
(6GT2 002-0JE40)

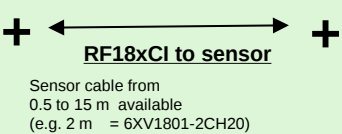


Additional IOs



RF186CI
(6GT2 002-0JE50)

RF188CI
(6GT2 002-0JE60)



**Types of IO-Link
IO module**
IO-extension module
(up to 8xDI + 8xDO)
6ES7 14.....
See page 95 for detailed information

New

Cyclic Protocol for RF128C and RF18xC/CI

For easier 3rd Party PLC Integration (PROFINET, Ethernet/IP and Modbus/TCP)

Manual: <https://support.industry.siemens.com/cs/ww/en/view/109990046>

Cheat Sheet (one Pager for Integration): <https://support.industry.siemens.com/cs/ww/en/view/109974157>

Reader

powered through connection cable



RF310R RS422
6GT2 801-1BA10
6GT2801-1BA10-0AX1 (90° plate)
6GT2801-1BA10-0AX2 (Ex 2C)



RF340R
6GT2 801-2BA10
6GT2801-2BA10-0AX2 (Ex 2C)



RF350R
6GT2 801-4BA10
6GT2801-4BA10-0AX2 (Ex 2C)



RF380R
6GT2 801-3BA10
6GT2801-3BA10-0AX2 (Ex 2C)

- ANT 1**
(6GT2 398-1CB00)
- ANT 3**
(6GT2 398-1CD40-0AX0)
- ANT 8**
(6GT2 398-1CF10)
- ANT 12**
(6GT2398-1DC10)
- ANT 18**
(6GT2398-1DA10)
- ANT 30**
(6GT2398-1DD10)

Tags



ISO TAGS

- D165** 6GT2 600-1AB00-0AX0
- D261** 6GT2 600-1AA01-0AX0
- D100** 6GT2 600-0AD10
- D200** 6GT2 600-1AD00-0AX0
- D400** 6GT2 600-4AD00
- D160** 6GT2 600-0AB10
- D460** 6GT2 600-4AB00
- D560** 6GT2 600-5AB00
- D117** 6GT2 600-0AG00
- D127** 6GT2 600-0AF00
- D421** 6GT2 600-4AE00
- D521** 6GT2 600-5AE00
- D422** 6GT2 600-4AF00
- D522** 6GT2 600-5AF00
- D124** 6GT2 600-0AC10
- D324** 6GT2 600-3AC00
- D424** 6GT2 600-4AC00
- D524** 6GT2 600-5AC00
- D226S** 6GT2600-2BA00
- D426S** 6GT2600-4BA00
- D126** 6GT2 600-0AE00
- D426** 6GT2 600-4AH00
- D526** 6GT2 600-5AH00
- D423** 6GT2 600-4AA00
- D425** 6GT2 600-4AG00
- D525** 6GT2 600-5AG00
- D428** 6GT2 600-4AK00-0AX0
- D528** 6GT2 600-5AK00
- D139** 6GT2 600-0AA10
- D339** 6GT2 600-3AA10

RF300
System Interfaces

SIMATIC PLC
S7-1200


RF120C
6GT2 002-0LA00
Up to 3 x RF120C modules per S7-1200 rack

A maximum of 1 readers may be connected
RF120C to RF2x0R

2 m = 6GT2 091-4LH20	5 m = 6GT2 091-4LH50
10m = 6GT2 091-4LN10	

And extension cables:

2 m = 6GT2 891-4FH20	5 m = 6GT2 891-4FH50
10 m = 6GT2 891-4FN10	20 m = 6GT2 891-4FN20
50 m = 6GT2 891-4FN50*	

2 m = 6GT2 891-4JH20 Reader connector 90° angled
5 m = 6GT2 891-4JH50 Reader connector 90° angled
10 m = 6GT2 891-4JN10 Reader connector 90° angled

ET 200pro
via PROFIBUS
or PROFINET
or S7 PLC

ET 200pro PROFIBUS DP-V1
Interface module

ET 200pro PROFINET
Interface module

ET 200pro PROFINET
CPU module

Up to 9 x 170C
modules per
ET 200pro rack


RF170C
Communication module
(6GT2002-0HD01)
Connection block
(6GT2002-1HD01)

A maximum of 2 readers may be connected
RF170C to RF2x0R

2 m = 6GT2 891-4FH20	5 m = 6GT2 891-4FH50
10 m = 6GT2 891-4FN10	20 m = 6GT2 891-4FN20
50 m = 6GT2 891-4FN50*	

Reader connector 90° angled
2 m = 6GT2 891-4JH20 5 m = 6GT2 891-4JH50
10 m = 6GT2 891-4JN10

PROFIBUS


RF166C (DP-V1)
Communication Module
(6GT2 002-0EE20)

A maximum of 2 readers may be connected
RF166C to RF2x0R

2 m = 6GT2 891-4FH20	5 m = 6GT2 891-4FH50
10 m = 6GT2 891-4FN10	20 m = 6GT2 891-4FN20
50 m = 6GT2 891-4FN50*	

Reader connector 90° angled
2 m = 6GT2 891-4JH20 5 m = 6GT2 891-4JH50
10 m = 6GT2 891-4JN10

Reader
powered through connection cable


RF310R RS422
6GT2 801-1BA10
6GT2801-1BA10-0AX1 (90° plate)
6GT2801-1BA10-0AX2 (Ex 2C)


RF340R
6GT2 801-2BA10
6GT2801-2BA10-0AX2 (Ex 2C)

ANT 1
(6GT2 398-1CB00)

ANT 3
(6GT2 398-1CD40-0AX0)

ANT 8
(6GT2 398-1CF10)

ANT 12
(6GT2398-1DC10)

ANT 18
(6GT2398-1DA10)

ANT 30
(6GT2398-1DD10)


RF350R
6GT2 801-4BA10,
/-4BA10-0AX2 (Ex 2C)


RF380R
6GT2 801-3BA10
6GT2801-3BA10-0AX2 (Ex 2C)

Tags


RF320T
(6GT2 800-1CA00)


RF330T
(6GT2 800-5BA00)


RF340T
(8 kb: 6GT2 800-4BB00)
(32 kb: 6GT2 800-5BB00)


RF350T
(6GT2 800-5BD00)


RF360T
(8 kb: 6GT2 800-4AC00)
(32 kb: 6GT2 800-5AC00)


RF370T
(32 kb: 6GT2 800-5BE00)
(64 kb: 6GT2 800-6BE00)


RF380T
(6GT2 800-5DA00)

ISO TAGS

D165 6GT2 600-1AB00-0AX0

D261 6GT2 600-1AA01-0AX0

D100 6GT2 600-0AD10

D200 6GT2 600-1AD00-0AX0

D400 6GT2 600-4AD00

D160 6GT2 600-0AB10

D460 6GT2 600-4AB00

D560 6GT2600-5AB00

D117 6GT2 600-0AG00

D127 6GT2 600-0AF00

D421 6GT2 600-4AE00

D521 6GT2 600-5AE00

D422 6GT2 600-4AF00

D522 6GT2 600-5AF00
(6GT2600-5AF00-0AX0)

D124 6GT2 600-0AC10

D324 6GT2 600-3AC00

D424 6GT2 600-4AC00

D524 6GT2 600-5AC00

D226s 6GT2600-2BA00

D426s 6GT2600-4BA00

D126 6GT2 600-0AE00

D426 6GT2 600-4AH00

D526 6GT2 600-5AH00

D423 6GT2 600-4AA00

D425 6GT2 600-4AG00

ds25 6GT2 600-5AG00

D428 6GT2 600-4AK00-0AX0

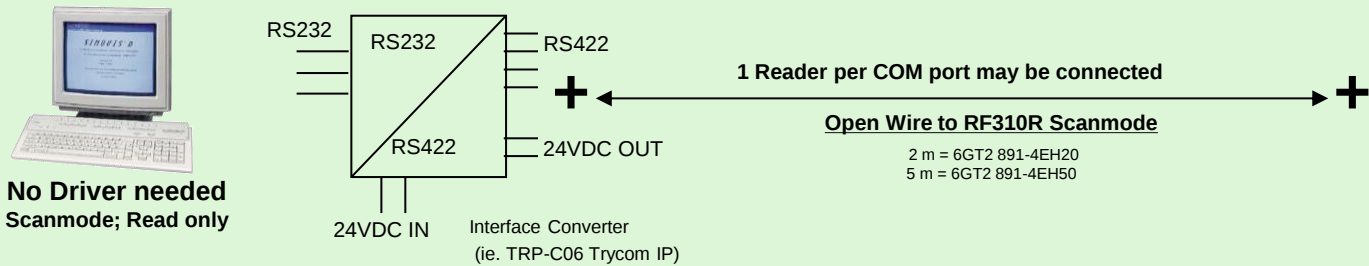
ds28 6GT2 600-5AK00

D139 6GT2 600-0AA10

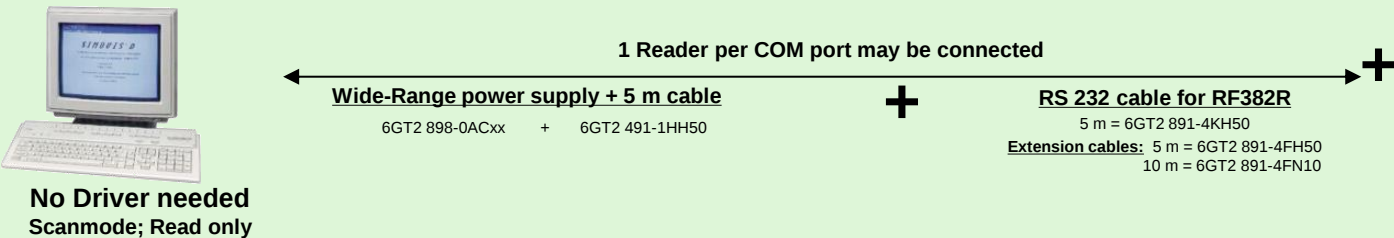
D339 6GT2 600-3AA10

RF300
System Interfaces

RS232/RS422



RS232



Reader

with external power supply



RF310R Scanmode
(6GT2 801-1BA20-0AX1)

Reader

with external power supply at Y-cable



RF382R
(6GT2 801-3AB20-0AX0)

Tags

RF320T
(6GT2 800-1CA00)

RF330T
(6GT2 800-5BA00)

RF340T
(8 kb: 6GT2 800-4BB00)
(32 kb: 6GT2 800-5BB00)

RF350T
(6GT2 800-5BD00)

RF360T
(8 kb: 6GT2 800-4AC00)
(32 kb: 6GT2 800-5AC00)

RF370T
(32 kb: 6GT2 800-5BE00)
(64 kb: 6GT2 800-6BE00)

RF380T
(6GT2 800-5DA00)

ISO TAGS

- D165 6GT2 600-1AB00-0AX0
- D261 6GT2 600-1AA01-0AX0
- D100 6GT2 600-0AD10
- D200 6GT2 600-1AD00-0AX0
- D400 6GT2 600-4AD00
- D160 6GT2 600-0AB10
- D460 6GT2 600-4AB00
- D560 6GT2 600-5AB00
- D117 6GT2 600-0AG00
- D127 6GT2 600-0AF00
- D421 6GT2 600-4AE00
- D521 6GT2 600-5AE00
- D422 6GT2 600-4AF00
- D522 6GT2 600-5AF00
(6GT2 600-5AF00-0AX0)
- D124 6GT2 600-0AC10
- D324 6GT2 600-3AC00
- D424 6GT2 600-4AC00
- D524 6GT2 600-5AC00
- D226s 6GT2 600-2BA00
- D426s 6GT2 600-4BA00
- D126 6GT2 600-0AE00
- D426 6GT2 600-4AH00
- D526 6GT2 600-5AH00
- D423 6GT2 600-4AA00
- D425 6GT2 600-4AG00
- D525 6GT2 600-5AG00
- D428 6GT2 600-4AK00-0AX0
- D528 6GT2 600-5AK00
- D139 6GT2 600-0AA10
- D339 6GT2 600-3AA10

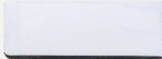
RF600 Family Matrix

865-868 MHz (ETSI)

902-928 MHz (FCC)

Passive Tags (with Gen2 protocol)

RF600 Family Matrix 865-868 MHz (ETSI) 902-928 MHz (FCC) Passive Tags (with Gen2 protocol) Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating	Antennas	RF630L 6GT2810-2AB02-0AX2 448 bits EPC, 256 Byte User Mem  -40°C to 85°C 97 x 27 IP67	RF630L 6GT2810-2AC84 6GT2810-2AE81-0AX3 448 bits EPC, 256 Byte User Mem  -40°C to 85°C & - 40°C to 120°C 73x12.5 & 75 x 20 IP67	RF630L 6GT2810-2AE82-xAXx 6GT2810-2AE83-1AX0 128 bits EPC, 0 Byte User Mem.  -25°C to 160°C & -25°C to 130°C various sizes* IP67	RF630L 6GT2810-2AB04-0AX1 6GT2810-2AE83-0AX1 448 bits EPC, 256 Byte User Mem  -25°C to 130°C 101 x 50 & 105 x 25 IP67
RF615R (IP67) (internal antenna used) 6GT2 811-6CC10-0AA0 (ETSI) 6GT2 811-6CC10-1AA0 (FCC) 6GT2 811-6CC10-2AA0 (CMIIT) RF610R (IP67) (internal antenna used) 6GT2 811-6BC10-0AA0 (ETSI) 6GT2 811-6BC10-1AA0 (FCC) 6GT2 811-6BC10-2AA0 (CMIIT)	Integrated 133 x 133 x 45	1,0 (39)	0.8 (31)	0.8 (31)	0.8 (31)
RF615R (IP67) (external antenna used) 6GT2 811-6CC10-0AA0 (ETSI) 6GT2 811-6CC10-1AA0 (FCC) 6GT2 811-6CC10-2AA0 (CMIIT) Antennas: 6GT2 812-0EA00 RF615A, linear, (ETSI) 6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT, ARIB) 6GT2 812-2EA00 RF622A, linear, (ETSI) 6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT, ARIB) 6GT2 812-1GA08 RF642A, linear, (all readers) 6GT2 812-0GB08 RF650A, circular, (all readers) 6GT2 812-1AA08 RF662A circular, (all readers) 6GT2 812-2GB08 RF680A, switchable (all readers)	RF615A  52 x 52 x 16	0.6 (24)	0.3 (12)	0.4 (16)	0.4 (16)
	RF622A  75 x 75 x 20	0.8 (31)	0.5 (20)	0.4 (16)	0.5 (20)
	RF642A  185 x 185 x 45	4.0 (157)	2.5 (98)	2.5 (98)	3.0 (118)
	RF650A  198 x 198 x 60	2.0 (79)	1.8 (71)	1.4 (55)	1.6 (63)
	RF662A  312 x 312 x 68	5.0 (197)	3.0 (118)	3.0 (118)	3.5 (148)
	RF680A  198 x 198 x 60	2.0 (79)	1.8 (71)	1.6 (63)	1.6 (63)
Accessories	** 3-way mounting kit (6GT2 890-2AB10) *** mounting plate (6GT2890-2AC00)				

RF600 Family Matrix 865-868 MHz (ETSI) 902-928 MHz (FCC) Passive Tags (with Gen2 protocol)	Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating			
	Antennas	RF630L 6GT2810-2AE83-0AX0 128 bits EPC, 0 Byte User Mem  -25°C to 130°C 75 x 25 IP67	RF642L 6GT2 810-3AC00 (ETSI) 6GT2 810-3AC10 (FCC) 448 bit EPC, 256 Byte User Mem  -25°C to 85°C 50 x 22.5 x 1.6 IP68	RF682L 6GT2 810-2AG84-0AX2 448 bits EPC, 256 Byte User Mem  -40°C to 230°C 156 x 40 IP67
RF615R (IP67) (internal antenna used) 6GT2 811-6CC10-0AA0 (ETSI) 6GT2 811-6CC10-1AA0 (FCC) 6GT2 811-6CC10-2AA0 (CMIIT) RF610R (IP67) (internal antenna used) 6GT2 811-6BC10-0AA0 (ETSI) 6GT2 811-6BC10-1AA0 (FCC) 6GT2 811-6BC10-2AA0 (CMIIT)		Integrated 133 x 133 x 45	1.2 (47)	0.4 (16)
RF615R (IP67) (external antenna used) 6GT2 811-6CC10-0AA0 (ETSI) 6GT2 811-6CC10-1AA0 (FCC) 6GT2 811-6CC10-2AA0 (CMIIT)  Antennas: 6GT2 812-0EA00 RF615A, linear, (ETSI) 6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT, ARIB) 6GT2 812-2EA00 RF622A, linear, (ETSI) 6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT, ARIB) 6GT2 812-1GA08 RF642A, linear, (all readers) 6GT2 812-0GB08 RF650A, circular, (all readers) 6GT2 812-1AA08 RF662A circular, (all readers) 6GT2 812-2GB08 RF680A, switchable (all readers)		RF615A 52 x 52 x 16	0.6 (24)	0.1 (4)
		RF622A 75 x 75 x 20	0.8 (31)	0.2 (8)
		RF642A 185 x 185 x 45	4.5 (177)	1.4 (55)
		RF650A 198 x 198 x 60	2.5 (98)	0.8 (31)
		RF662A 312 x 312 x 68	4.5 (177)	1.6 (63)
		RF680A 198 x 198 x 60	2.5 (98)	0.8 (31)
		** 3-way mounting kit (6GT2 890-2AB10) *** mounting plate (6GT2890-2AC00)		
Accessories				

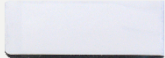
RF600 Family Matrix	Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating	Antennas	RF610T	RF620T	RF621T	RF625T	RF630T
			6GT2 810-2BB80 448 bit EPC, 256 byte UserMem  -40°C to 85°C 86 x 54 x 0.6 IP67	6GT2 810-3HC80 448 bit EPC, 256 byte UserMem  -40°C to 85°C 127 x 38 x 6 IP67	6GT2 810-1HC80 128 bit EPC, 0 byte UserMem  -40°C to 85°C 120 x 30 x 6,5 IP67	6GT2 810-2EE00 (ETSI) 6GT2 810-2EE01 (FCC) 128 bit EPC, 64 byte UserMem  -40°C to 125°C Ø 30 x 8 IP68/ IPx9K	6GT2 810-2EC00 (ETSI) 6GT2 810-2EC10 (FCC) 240 bit EPC, 64 byte UserMem  -40°C to 125°C Ø 21x 20 IP68/ IPx9K
RF615R (IP67) (internal antenna used) 6GT2 811-6CC10-0AA0 (ETSI) 6GT2 811-6CC10-1AA0 (FCC) 6GT2 811-6CC10-2AA0 (CMIIT) RF610R (IP67) (internal antenna used) 6GT2 811-6BC10-0AA0 (ETSI) 6GT2 811-6BC10-1AA0 (FCC) 6GT2 811-6BC10-2AA0 (CMIIT)	 	Integrated 133 x 133 x 45	1,0 (39)	1,0 (39)	1.3 (51)	0.3 (12)	0.3 (12)
RF615R (IP67) (external antenna used) 6GT2 811-6CC10-0AA0 (ETSI) 6GT2 811-6CC10-1AA0 (FCC) 6GT2 811-6CC10-2AA0 (CMIIT)  Antennas: 6GT2 812-0EA00 RF615A, linear, (ETSI) 6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT, ARIB) 6GT2 812-2EA00 RF622A, linear, (ETSI) 6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT, ARIB) 6GT2 812-1GA08 RF642A, linear, (all readers) 6GT2 812-0GB08 RF650A, circular, (all readers) 6GT2 812-1AA08 RF662A circular, (all readers) 6GT2 812-2GB08 RF680A, switchable (all readers)		RF615A 52 x 52 x 16	0.3 (12)	0.5 (20)	0.6 (24)	0.1 (4)	0.15 (6)
		RF622A 75 x 75 x 20	0.4 (16)	0.7 (28)	0.9 (35)	0.1 (4)	0.15 (6)
		RF642A 185 x 185 x 45	2.5 (98)	3.0 (118)	3.0 (118)	1,0 (39)	1.2 (47)
		RF650A 198 x 198 x 60	1.5 (59)	2.0 (79)	2.5 (98)	0.25 (10)	0.8 (31)
		RF662A 312 x 312 x 68	3.0 (118)	4.0 (157)	5.0 (197)	0.6 (24)	1.3 (51)
		RF680A 198 x 198 x 60	1.6 (63)	2.5 (98)	3.0 (118)	0.25 (10)	0.8 (31)
Accessories		** 3-way mounting kit (6GT2 890-2AB10) *** mounting plate (6GT2890-2AC00)		Spacer (6GT2 898-3AA00)	Spacer (6GT2 898-3AA00)		

RF600 Family Matrix 865-868 MHz (ETSI) 902-928 MHz (FCC) Passive Tags (with Gen2 protocol)	Antennas	RF640T 6GT2 810-2DC00 (ETSI) 6GT2 810-2DC10 (FCC) 240 bit EPC, 64 byte UserMem  -40°C to 125°C Ø 50 x 8 IP68/ IPx9K	RF645T 6GT2 810-2HC05 448 bit EPC, 256 byte UserMem  -40°C to 85°C 52 x 36 x 12,5 IP68	RF650T 6GT2 810-2HC00 128 bit EPC, 0 byte UserMem  -40°C to 55°C 54 x 24 x 9,8 IP68	RF670T 6GT2 810-2MG00 (ETSI) 6GT2 810-2MG10 (FCC) 496 bit EPC, 94 byte UserMem  -40°C to 140°C 43 x 33 x 7,5 IP68/IP69K	RF670T 6GT2 810-3MG00 (ETSI) 6GT2810-3MG10 (FCC) 496 bit EPC, 94 byte UserMem  -40°C to 250°C 40 x 30 x 4,1 IP67
RF615R (IP67) (internal antenna used) 6GT2 811-6CC10-0AA0 (ETSI) 6GT2 811-6CC10-1AA0 (FCC) 6GT2 811-6CC10-2AA0 (CMIIT)  RF610R (IP67) (internal antenna used) 6GT2 811-6BC10-0AA0 (ETSI) 6GT2 811-6BC10-1AA0 (FCC) 6GT2 811-6BC10-2AA0 (CMIIT) 	Integrated 133 x 133 x 45	0.4 (16)	1.0 (39)	0.6 (24)	2.0 (79)	2.0 (79)
RF615R (IP67) (external antenna used) 6GT2 811-6CC10-0AA0 (ETSI) 6GT2 811-6CC10-1AA0 (FCC) 6GT2 811-6CC10-2AA0 (CMIIT)  Antennas: 6GT2 812-0EA00 RF615A, linear, (ETSI) 6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT, ARIB) 6GT2 812-2EA00 RF622A, linear, (ETSI) 6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT, ARIB) 6GT2 812-1GA08 RF642A, linear, (all readers) 6GT2 812-0GB08 RF650A, circular, (all readers) 6GT2 812-1AA08 RF662A circular, (all readers) 6GT2 812-2GB08 RF680A, switchable (all readers)		RF615A 52 x 52 x 16 	0.1 (4)	0.5 (20)	0.3 (12)	0.5 (20)
		RF622A 75 x 75 x 20 	0.2 (8)	0.7 (28)	0.4 (16)	0.6 (24)
		RF642A 185 x 185 x 45 	1.8 (71)	3.0 (118)	2.0 (79)	3.5 (138)
		RF650A 198 x 198 x 60 	1.0 (39)	2.0 (79)	1.4 (55)	2.5 (98)
		RF662A 312 x 312 x 68 	1.8 (71)	3.5 (138)	2.2 (87)	4.0 (157)
		RF680A 198 x 198 x 60 	1.0 (39)	2.0 (79)	1.4 (55)	2.5 (98)
Accessories	** 3-way mounting kit (6GT2 890-2AB10) *** mounting plate (6GT2890-2AC00)		Mounting cover 6GT2898-5AA00 Retaining bracket 6GT2898-5AB00			

RF600 Family Matrix 865-868 MHz (ETSI) 902-928 MHz (FCC) Passive Tags (with Gen2 protocol) Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating	Antennas	RF671T 6GT2 810-2HF00 (ETSI) 6GT2810-2HF10 (FCC) 96 bit EPC, 4 byte UserMem  -40°C to 175°C 10,8 x 5,8 x 3,9 IP68	RF675T 6GT2 810-2EF00 (ETSI) 6GT2810-2EF10 (FCC) 128 bit EPC, 8 byte  -40°C to 100°C Ø 20 x 6 IP67	RF680T 6GT2 810-2HG81 224 bit EPC, 64 byte  -40°C to 220°C 130 x 32,6 x 16,5 IP68/ IPx9K	RF682T 6GT2 810-3HG81 224 bit EPC, 384 byte  -40°C to 220°C 130 x 32,6 x 16,5 IP68/ IPx9K	RF683T 6GT2 810-3HG00 224 bit EPC, 384 byte  -40°C to 220°C 130 x 32,6 x 16,5 IP68/ IPx9K
RF615R (IP67) (internal antenna used) 6GT2 811-6CC10-0AA0 (ETSI) 6GT2 811-6CC10-1AA0 (FCC) 6GT2 811-6CC10-2AA0 (CMIIT)  RF610R (IP67) (internal antenna used) 6GT2 811-6BC10-0AA0 (ETSI) 6GT2 811-6BC10-1AA0 (FCC) 6GT2 811-6BC10-2AA0 (CMIIT) 	Integrated 133 x 133 x 45	1,0 (39)	0.2 (8)	1.2 (47)	0.8 (31)	1.5 (59)
RF615R (IP67) (external antenna used) 6GT2 811-6CC10-0AA0 (ETSI) 6GT2 811-6CC10-1AA0 (FCC) 6GT2 811-6CC10-2AA0 (CMIIT)  Antennas: 6GT2 812-0EA00 RF615A, linear, (ETSI) 6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT, ARIB) 6GT2 812-2EA00 RF622A, linear, (ETSI) 6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT, ARIB) 6GT2 812-1GA08 RF642A, linear, (all readers) 6GT2 812-0GB08 RF650A, circular, (all readers) 6GT2 812-1AA08 RF662A circular, (all readers) 6GT2 812-2GB08 RF680A, switchable (all readers)	RF615A  52 x 52 x 16	0.7 (28)	0.05 (2)	0.3 (12)	0.4 (16)	0.4 (16)
	RF622A  75 x 75 x 20	0.7 (28)	0.05 (2)	0.4 (16)	0.4 (16)	0,5 (20)
	RF642A  185 x 185 x 45	3.5 (138)	0.3 (12)	4.0 (157)	2.5 (98)	5,0 (197)
	RF650A  198 x 198 x 60	2,5 (98)	0.15 (6)	2.0 (79)	1.4 (55)	2,5 (98)
	RF662A  312 x 312 x 68	4.5 (177)	0.2 (8)	4.0 (157)	2,5 (98)	5,0 (197)
	RF680A  198 x 198 x 60	2,5 (98)	0.15 (6)	2.0 (79)	1.4 (55)	2,5 (98)
Accessories	** 3-way mounting kit (6GT2 890-2AB10) *** mounting plate (6GT2890-2AC00)			Retaining bracket 6GT2890-2AA00	Retaining bracket 6GT2890-2AA00	Retaining bracket 6GT2890-2AA00

Maximum operating distance (m) and maximum operating distance (inch)
 pay attention to the system manual for range overshoot

RF600 Family Matrix 865-868 MHz (ETSI) 902-928 MHz (FCC) Passive Tags (with Gen2 protocol) Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating	Antennas	RF630L 6GT2810-2AB02-0AX2 448 bits EPC, 256 Byte User Mem  -40°C to 85°C 97 x 27 IP67	RF630L 6GT2810-2AC84 6GT2810-2AE81-0AX3 448 bits EPC, 256 Byte User Mem  -40°C to 85°C & - 40°C to 120°C 73x12.5 & 75 x 20 IP67	RF630L 6GT2810-2AE82-xAXx 6GT2810-2AE83-1AX0 128 bits EPC, 0 Byte User Mem.  -25°C to 160°C & -25°C to 130°C various sizes* IP67	RF630L 6GT2810-2AB04-0AX1 6GT2810-2AE83-0AX1 448 bits EPC, 256 Byte User Mem  -25°C to 130°C 101 x 50 & 105 x 25 IP67
RF685R (IP65) (internal antenna used) 6GT2 811-6CA10-0AA0 (ETSI) 6GT2 811-6CA10-1AA0 (FCC) 6GT2 811-6CA10-2AA0 (CMIIT) 6GT2 811-6CA10-4AA0 (ARIB) 	Integrated 260 x 193 x 52	6.0 (236)	5.0 (197)	4.0 (157)	5.0 (197)
RF685R (IP65) (external antenna used) 6GT2 811-6CA10-0AA0 (ETSI) 6GT2 811-6CA10-1AA0 (FCC) 6GT2 811-6CA10-2AA0 (CMIIT) 6GT2 811-6CA10-4AA0 (ARIB)  RF680R (IP65) 6GT2 811-6AA10-0AA0 (ETSI) 6GT2 811-6AA10-1AA0 (FCC) 6GT2 811-6AA10-2AA0 (CMIIT) 6GT2 811-6AA10-4AA0 (ARIB)  Antennas: 6GT2 812-0EA00 RF615A, linear, (ETSI) 6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT, ARIB) 6GT2 812-2EA00 RF622A, linear, (ETSI) 6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT, ARIB) 6GT2 812-1GA08 RF642A, linear, (all readers) 6GT2 812-0GB08 RF650A, circular, (all readers) 6GT2 812-1AA08 RF662A circular, (all readers) 6GT2 812-2GB08 RF680A, switchable (all readers)	RF615A  52 x 52 x 16	1.2 (47)	1,0 (39)	1.2 (47)	1.2 (47)
	RF622A  75 x 75 x 20	1.5 (59)	1.4 (55)	1.2 (47)	1.4 (55)
	RF642A  185 x 185 x 45	6.0 (236)	4.5 (177)	4.0 (157)	4.5 (177)
	RF650A  198 x 198 x 60	3.0 (118)	3.0 (118)	2,5 (98)	3.0 (118)
	RF662A  312 x 312 x 68	7.0 (276)	5.0 (197)	4.0 (157)	5.0 (197)
	RF680A  198 x 198 x 60	3.5 (138)	3.0 (118)	2,5 (98)	3.0 (118)
Accessories	** 3-way mounting kit (6GT2 890-2AB10) *** mounting plate (6GT2890-2AC00)				

RF600 Family Matrix 865-868 MHz (ETSI) 902-928 MHz (FCC) Passive Tags (with Gen2 protocol) Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating	Antennas	RF630L 6GT2810-2AE83-0AX0 128 bits EPC, 0 Byte User Mem  -25°C to 130°C 75 x 25 IP67	RF642L 6GT2 810-3AC00 (ETSI) 6GT2 810-3AC10 (FCC) 448 bit EPC, 256 Byte User Mem  -25°C to 85°C 50 x 22.5 x 1.6 IP68	RF682L 6GT2 810-2AG84-0AX2 448 bits EPC, 256 Byte User Mem  -40°C to 230°C 156 x 40 IP67
RF685R (IP65) (internal antenna used) 6GT2 811-6CA10-0AA0 (ETSI) 6GT2 811-6CA10-1AA0 (FCC) 6GT2 811-6CA10-2AA0 (CMIIT) 6GT2 811-6CA10-4AA0 (ARIB) 	Integrated 260 x 193 x 52	5.5 (217)	2.0 (79)	6.0 (236)
RF685R (IP65) (external antenna used) 6GT2 811-6CA10-0AA0 (ETSI) 6GT2 811-6CA10-1AA0 (FCC) 6GT2 811-6CA10-2AA0 (CMIIT) 6GT2 811-6CA10-4AA0 (ARIB)  RF680R (IP65) 6GT2 811-6AA10-0AA0 (ETSI) 6GT2 811-6AA10-1AA0 (FCC) 6GT2 811-6AA10-2AA0 (CMIIT) 6GT2 811-6AA10-4AA0 (ARIB)  Antennas: 6GT2 812-0EA00 RF615A, linear, (ETSI) 6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT, ARIB) 6GT2 812-2EA00 RF622A, linear, (ETSI) 6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT, ARIB) 6GT2 812-1GA08 RF642A, linear, (all readers) 6GT2 812-0GB08 RF650A, circular, (all readers) 6GT2 812-1AA08 RF662A circular, (all readers) 6GT2 812-2GB08 RF680A, switchable (all readers)	RF615A  52 x 52 x 16	1.4 (55)	0.4 (16)	1.2 (47)
	RF622A  75 x 75 x 20	1.6 (63)	0.5 (20)	1.6 (63)
	RF642A  185 x 185 x 45	5.0 (197)	2.0 (79)	6.0 (236)
	RF650A  198 x 198 x 60	3.5 (138)	1.4 (55)	3.5 (138)
	RF662A  312 x 312 x 68	6.0 (236)	2.0 (79)	5.0 (197)
	RF680A  198 x 198 x 60	3.5 (138)	1.4 (55)	3.5 (138)
Accessories	** 3-way mounting kit (6GT2 890-2AB10) *** mounting plate (6GT2890-2AC00)			

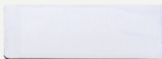
RF600 Family Matrix 865-868 MHz (ETSI) 902-928 MHz (FCC) Passive Tags (with Gen2 protocol) Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating	Antennas	RF610T 6GT2 810-2BB80 448 bit EPC, 256 byte UserMem  -40°C to 85°C 86 x 54 x 0.6 IP67	RF620T 6GT2 810-3HC80 448 bit EPC, 256 byte UserMem  -40°C to 85°C 127 x 38 x 6 IP67	RF621T 6GT2 810-1HC80 128 bit EPC, 0 byte UserMem  -40°C to 85°C 120 x 30 x 6,5 IP67	RF625T 6GT2 810-2EE00 (ETSI) 6GT2 810-2EE01 (FCC) 128 bit EPC, 64 byte UserMem  -40°C to 125°C Ø 30 x 8 IP68/ IPx9K	RF630T 6GT2 810-2EC00 (ETSI) 6GT2 810-2EC10 (FCC) 240 bit EPC, 64 byte UserMem  -40°C to 125°C Ø 21x 20 IP68/ IPx9K
RF685R (IP65) (internal antenna used)  6GT2 811-6CA10-0AA0 (ETSI) 6GT2 811-6CA10-1AA0 (FCC) 6GT2 811-6CA10-2AA0 (CMIIT) 6GT2 811-6CA10-4AA0 (ARIB)	Integrated 260 x 193 x 52	4.5 (177)	7.0 (276)	7.5 (295)	1.4 (55)	2.0 (79)
RF685R (IP65) (external antenna used)  6GT2 811-6CA10-0AA0 (ETSI) 6GT2 811-6CA10-1AA0 (FCC) 6GT2 811-6CA10-2AA0 (CMIIT) 6GT2 811-6CA10-4AA0 (ARIB) RF680R (IP65)  6GT2 811-6AA10-0AA0 (ETSI) 6GT2 811-6AA10-1AA0 (FCC) 6GT2 811-6AA10-2AA0 (CMIIT) 6GT2 811-6AA10-4AA0 (ARIB) Antennas: 6GT2 812-0EA00 RF615A, linear, (ETSI) 6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT, ARIB) 6GT2 812-2EA00 RF622A, linear, (ETSI) 6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT, ARIB) 6GT2 812-1GA08 RF642A, linear, (all readers) 6GT2 812-0GB08 RF650A, circular, (all readers) 6GT2 812-1AA08 RF662A circular, (all readers) 6GT2 812-2GB08 RF680A, switchable (all readers)	RF615A  52 x 52 x 16	1.2 (47)	1.3 (51)	1.3 (51)	0.2 (8)	0.3 (12)
	RF622A  75 x 75 x 20	1.4 (55)	2.0 (79)	2.0 (79)	0.3 (12)	0.4 (16)
	RF642A  185 x 185 x 45	4.0 (157)	7.0 (275)	7.0 (276)	1.4 (55)	2.0 (79)
	RF650A  198 x 198 x 60	2,5 (98)	3.5 (138)	4.0 (157)	0.8 (31)	1.2 (47)
	RF662A  312 x 312 x 68	4.5 (177)	7.0 (276)	8,0 (315)	0.8 (31)	2.2 (87)
	RF680A  198 x 198 x 60	2,5 (98)	3.5 (138)	3.5 (138)	0.8 (31)	1.2 (47)
Accessories	** 3-way mounting kit (6GT2 890-2AB10) *** mounting plate (6GT2890-2AC00)		Spacer (6GT2 898-2AA00)	Spacer (6GT2 898-3AA00)		

Maximum operating distance (m) and maximum operating distance (inch)
 pay attention to the system manual for range overshoot

RF600 Family Matrix 865-868 MHz (ETSI) 902-928 MHz (FCC) Passive Tags (with Gen2 protocol) Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating	Antennas	RF640T 6GT2 810-2DC00 (ETSI) 6GT2 810-2DC10 (FCC) 240 bit EPC, 64 byte UserMem  -40°C to 125°C Ø 50 x 8 IP68/ IPx9K	RF645T 6GT2 810-2HC05 448 bit EPC, 256 byte UserMem  -40°C to 85°C 52 x 36 x 12,5 IP68	RF650T 6GT2 810-2HC00 128 bit EPC, 0 byte UserMem  -40°C to 55°C 54 x 24 x 9,8 IP68	RF670T 6GT2 810-2MG00 (ETSI) 6GT2 810-2MG10 (FCC) 496 bit EPC, 94 byte UserMem  -40°C to 140°C 43 x 33 x 7,5 IP68/IP69K	RF670T 6GT2 810-3MG00 (ETSI) 6GT2810-3MG10 (FCC) 496 bit EPC, 94 byte UserMem  -40°C to 250°C 40 x 30 x 4,1 IP67
RF685R (IP65) (internal antenna used) 6GT2 811-6CA10-0AA0 (ETSI) 6GT2 811-6CA10-1AA0 (FCC) 6GT2 811-6CA10-2AA0 (CMIIT) 6GT2 811-6CA10-4AA0 (ARIB) 	Integrated 260 x 193 x 52	3.0 (118)	5.0 (197)	3.5 (138)	5.0 (197)	5.0 (197)
RF685R (IP65) (external antenna used) 6GT2 811-6CA10-0AA0 (ETSI) 6GT2 811-6CA10-1AA0 (FCC) 6GT2 811-6CA10-2AA0 (CMIIT) 6GT2 811-6CA10-4AA0 (ARIB)  RF680R (IP65) 6GT2 811-6AA10-0AA0 (ETSI) 6GT2 811-6AA10-1AA0 (FCC) 6GT2 811-6AA10-2AA0 (CMIIT) 6GT2 811-6AA10-4AA0 (ARIB)  Antennas: 6GT2 812-0EA00 RF615A, linear, (ETSI) 6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT, ARIB) 6GT2 812-2EA00 RF622A, linear, (ETSI) 6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT, ARIB) 6GT2 812-1GA08 RF642A, linear, (all readers) 6GT2 812-0GB08 RF650A, circular, (all readers) 6GT2 812-1AA08 RF662A circular, (all readers) 6GT2 812-2GB08 RF680A, switchable (all readers)	RF615A  52 x 52 x 16	0.5 (20)	1.2 (47)	0.5 (20)	1.0 (39)	1,0 (39)
	RF622A  75 x 75 x 20	0.7 (28)	1.6 (63)	0.8 (31)	1.4 (55)	1.4 (55)
	RF642A  185 x 185 x 45	3.5 (138)	6.0 (236)	3.5 (138)	5.0 (197)	5.0 (197)
	RF650A  198 x 198 x 60	2.0 (79)	4.0 (157)	2.2 (87)	4.0 (157)	4.0 (157)
	RF662A  312 x 312 x 68	2,5 (98)	5.0 (197)	4.5 (177)	6.0 (236)	6.0 (236)
	RF680A  198 x 198 x 60	2.0 (79)	4.0 (157)	2.2 (87)	4.0 (157)	4,0 (157)
	Accessories	** 3-way mounting kit (6GT2 890-2AB10) *** mounting plate (6GT2890-2AC00)		Mounting cover 6GT2898-5AA00 Retaining bracket 6GT2898-5AB00		

RF600 Family Matrix 865-868 MHz (ETSI) 902-928 MHz (FCC) Passive Tags (with Gen2 protocol) Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating	Antennas	RF671T 6GT2 810-2HF00 (ETSI) 6GT2810-2HF10 (FCC) 96 bit EPC, 4 byte UserMem  -40°C to 175°C 10,8 x 5,8 x 3,9 IP68	RF675T 6GT2 810-2EF00 (ETSI) 6GT2810-2EF10 (FCC) 128 bit EPC, 8 byte  -40°C to 100°C Ø 20 x 6 IP67	RF680T 6GT2 810-2HG81 240 bit EPC, 64 byte  -40°C to 220°C 130 x 32,6 x 16,5 IP68/ IPx9K	RF682T 6GT2 810-3HG81 224 bit EPC, 384 byte  -40°C to 220°C 130 x 32,6 x 16,5 IP68/ IPx9K	RF683T 6GT2 810-3HG00 224 bit EPC, 384 byte  -40°C to 220°C 130 x 32,6 x 16,5 IP68/ IPx9K
RF685R (IP65) (internal antenna used) 6GT2 811-6CA10-0AA0 (ETSI) 6GT2 811-6CA10-1AA0 (FCC) 6GT2 811-6CA10-2AA0 (CMIIT) 6GT2 811-6CA10-4AA0 (ARIB) 	Integrated 260 x 193 x 52	5.0 (197)	0.3 (12)	5.0 (197)	4.0 (157)	6.0 (236)
RF685R (IP65) (external antenna used) 6GT2 811-6CA10-0AA0 (ETSI) 6GT2 811-6CA10-1AA0 (FCC) 6GT2 811-6CA10-2AA0 (CMIIT) 6GT2 811-6CA10-4AA0 (ARIB)  RF680R (IP65) 6GT2 811-6AA10-0AA0 (ETSI) 6GT2 811-6AA10-1AA0 (FCC) 6GT2 811-6AA10-2AA0 (CMIIT) 6GT2 811-6AA10-4AA0 (ARIB)  Antennas: 6GT2 812-0EA00 RF615A, linear, (ETSI) 6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT, ARIB) 6GT2 812-2EA00 RF622A, linear, (ETSI) 6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT, ARIB) 6GT2 812-1GA08 RF642A, linear, (all readers) 6GT2 812-0GB08 RF650A, circular, (all readers) 6GT2 812-1AA08 RF662A circular, (all readers) 6GT2 812-2GB08 RF680A, switchable (all readers)	RF615A  52 x 52 x 16	1,0 (39)	0.05 (2)	1.0 (39)	0.8 (31)	1,0 (39)
	RF622A  75 x 75 x 20	1.3 (51)	0.05 (2)	1.2 (47)	1,0 (39)	1.2 (47)
	RF642A  185 x 185 x 45	5.0 (197)	0.6 (24)	5.0 (197)	4.5 (177)	6.0 (236)
	RF650A  198 x 198 x 60	3.0 (118)	0.25 (10)	3.5 (138)	3.0 (118)	3.5 (138)
	RF662A  312 x 312 x 68	6.0 (236)	0.25 (10)	4.5 (177)	4.0 (157)	6.0 (236)
	RF680A  198 x 198 x 60	3.0 (118)	0.25 (10)	3.5 (138)	3.0 (118)	3.5 (138)
Accessories	** 3-way mounting kit (6GT2 890-2AB10) *** mounting plate (6GT2890-2AC00)			Retaining bracket 6GT2890-2AA00	Retaining bracket 6GT2890-2AA00	Retaining bracket 6GT2890-2AA00

RF600 Family Matrix 865-868 MHz (ETSI) 902-928 MHz (FCC) Passive Tags (with Gen2 protocol) Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating	Antennas	RF630L 6GT2810-2AB02-0AX2 448 bits EPC, 256 Byte User Mem  -40°C to 85°C 97 x 27 IP67	RF630L 6GT2810-2AC84 6GT2810-2AE81-0AX3 448 bits EPC, 256 Byte User Mem  -40°C to 85°C & - 40°C to 120°C 73x12.5 & 75 x 20 IP67	RF630L 6GT2810-2AE82-xAXx 6GT2810-2AE83-1AX0 128 bits EPC, 0 Byte User Mem.  -25°C to 160°C & -25°C to 130°C various sizes* IP67	RF630L 6GT2810-2AB04-0AX1 6GT2810-2AE83-0AX1 448 bits EPC, 256 Byte User Mem  -25°C to 130°C 101 x 50 & 105 x 25 IP67
RF690R (IP33) (external antenna used) 6GT2 811-7AD20-0AA0 (ETSI) 6GT2 811-7AD20-1AA0 (FCC) 6GT2 811-7AD20-2AA0 (CMIIT) RF695R (IP33) 6GT2 811-7DD20-0AA0 (ETSI) 6GT2 811-7DD20-1AA0 (FCC) 6GT2 811-7DD20-2AA0 (CMIIT)  Antennas: 6GT2 812-0EA00 RF615A, linear, (ETSI) 6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT, ARIB) 6GT2 812-2EA00 RF622A, linear, (ETSI) 6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT, ARIB) 6GT2 812-1GA08 RF642A, linear, (all readers) 6GT2 812-0GB08 RF650A, circular, (all readers) 6GT2 812-1AA08 RF662A circular, (all readers)	RF615A  52 x 52 x 16	1.2 (47)	1,0 (39)	1.2 (47)	1.2 (47)
	RF622A  75 x 75 x 20	2.0 (79)	1.4 (55)	1.5 (59)	1.6 (63)
	RF642A  185 x 185 x 45	6.0 (236)	5.0 (197)	4.0 (157)	5.0 (197)
	RF650A  198 x 198 x 60	3.0 (118)	3.0 (118)	2,5 (98)	3.0 (118)
	RF662A  312 x 312 x 68	7.0 (276)	5.0 (197)	5.0 (197)	5.0 (197)
Accessories	** 3-way mounting kit (6GT2 890-2AB10) *** mounting plate (6GT2890-2AC00)				

RF600 Family Matrix 865-868 MHz (ETSI) 902-928 MHz (FCC) Passive Tags (with Gen2 protocol) Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating	Antennas	RF630L 6GT2810-2AE83-0AX0 128 bits EPC, 0 Byte User Mem  -25°C to 130°C 75 x 25 IP67	RF642L 6GT2 810-3AC00 (ETSI) 6GT2 810-3AC10 (FCC) 448 bit EPC, 256 Byte User Mem  -25°C to 85°C 50 x 22.5 x 1.6 IP68	RF682L 6GT2 810-2AG84-0AX2 448 bits EPC, 256 Byte User Mem  -40°C to 230°C 156 x 40 IP67
RF690R (IP33) (external antenna used) 6GT2 811-7AD20-0AA0 (ETSI) 6GT2 811-7AD20-1AA0 (FCC) 6GT2 811-7AD20-2AA0 (CMIIT) RF695R (IP33) 6GT2 811-7DD20-0AA0 (ETSI) 6GT2 811-7DD20-1AA0 (FCC) 6GT2 811-7DD20-2AA0 (CMIIT)  Antennas: 6GT2 812-0EA00 RF615A, linear, (ETSI) 6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT, ARIB) 6GT2 812-2EA00 RF622A, linear, (ETSI) 6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT, ARIB) 6GT2 812-1GA08 RF642A, linear, (all readers) 6GT2 812-0GB08 RF650A, circular, (all readers) 6GT2 812-1AA08 RF662A circular, (all readers)	RF615A  52 x 52 x 16	1,8 (71)	0.6 (24)	1.4 (55)
	RF622A  75 x 75 x 20	2.2 (87)	1.0 (39)	1,8 (71)
	RF642A  185 x 185 x 45	5.5 (217)	2.0 (79)	6.0 (236)
	RF650A  198 x 198 x 60	3.5 (138)	1.6 (63)	3.5 (138)
	RF662A  312 x 312 x 68	6.0 (236)	2,5 (98)	6.0 (236)
Accessories	** 3-way mounting kit (6GT2 890-2AB10) *** mounting plate (6GT2890-2AC00)			

RF600 Family Matrix 865-868 MHz (ETSI) 902-928 MHz (FCC) Passive Tags (with Gen2 protocol) Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating	Antennas	RF610T 6GT2 810-2BB80 448 bit EPC, 256 byte UserMem  -40°C to 85°C 86 x 54 x 0.6 IP67	RF620T 6GT2 810-3HC80 448 bit EPC, 256 byte UserMem  -40°C to 85°C 127 x 38 x 6 IP67	RF621T 6GT2 810-1HC80 128 bit EPC, 0 byte UserMem  -40°C to 85°C 120 x 30 x 6,5 IP67	RF625T 6GT2 810-2EE00 (ETSI) 6GT2 810-2EE01 (FCC) 128 bit EPC, 64 byte UserMem  -40°C to 125°C Ø 30 x 8 IP68/ IPx9K	RF630T 6GT2 810-2EC00 (ETSI) 6GT2 810-2EC10 (FCC) 240 bit EPC, 64 byte UserMem  -40°C to 125°C Ø 21x 20 IP68/ IPx9K
RF690R (IP33) (external antenna used) 6GT2 811-7AD20-0AA0 (ETSI) 6GT2 811-7AD20-1AA0 (FCC) 6GT2 811-7AD20-2AA0 (CMIIT) RF695R (IP33) 6GT2 811-7DD20-0AA0 (ETSI) 6GT2 811-7DD20-1AA0 (FCC) 6GT2 811-7DD20-2AA0 (CMIIT)  Antennas: 6GT2 812-0EA00 RF615A, linear, (ETSI) 6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT, ARIB) 6GT2 812-2EA00 RF622A, linear, (ETSI) 6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT, ARIB) 6GT2 812-1GA08 RF642A, linear, (all readers) 6GT2 812-0GB08 RF650A, circular, (all readers) 6GT2 812-1AA08 RF662A circular, (all readers)	RF615A  52 x 52 x 16	1.2 (47)	1.3 (51)	1.3 (51)	0.3 (12)	0.3 (12)
	RF622A  75 x 75 x 20	1.6 (63)	1.8 (71)	2.0 (79)	0.4 (16)	0.5 (20)
	RF642A  185 x 185 x 45	4.0 (157)	6.0 (236)	7.0 (276)	1.6 (63)	2.0 (79)
	RF650A  198 x 198 x 60	2,5 (98)	3.5 (138)	4.0 (157)	1.0 (39)	1.2 (47)
	RF662A  312 x 312 x 68	4.5 (177)	8.0 (315)	8.0 (315)	1.0 (39)	2,5 (98)
Accessories	** 3-way mounting kit (6GT2 890-2AB10) *** mounting plate (6GT2890-2AC00)		Spacer (6GT2 898-2AA00)	Spacer (6GT2 898-3AA00)		

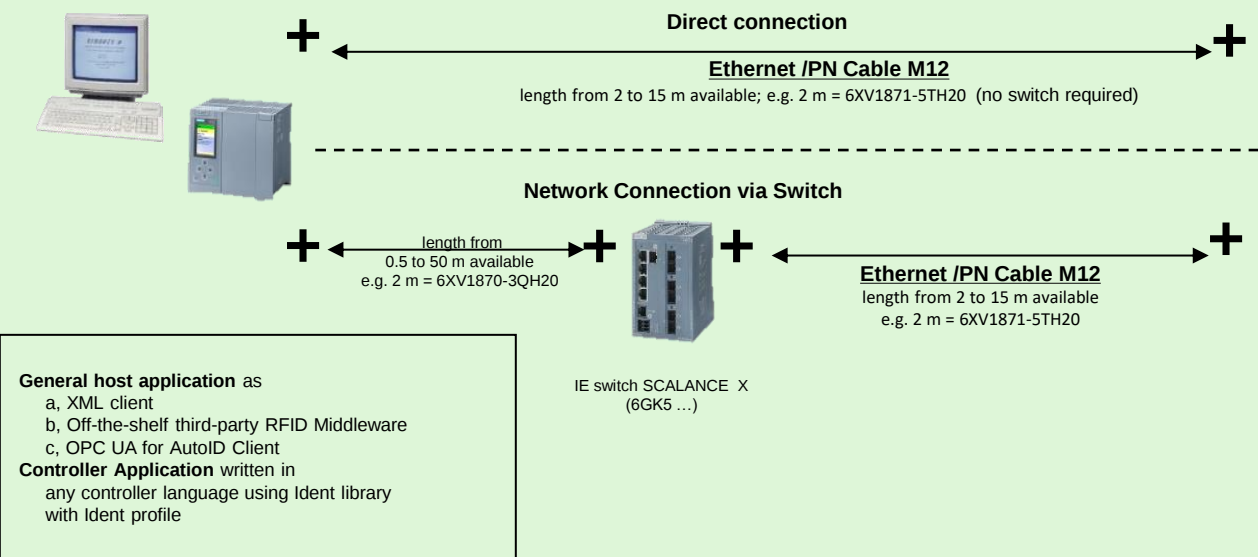
RF600 Family Matrix 865-868 MHz (ETSI) 902-928 MHz (FCC) Passive Tags (with Gen2 protocol) Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating	Antennas	RF640T 6GT2 810-2DC00 (ETSI) 6GT2 810-2DC10 (FCC) 240 bit EPC, 64 byte UserMem  -40°C to 125°C Ø 50 x 8 IP68/ IPx9K	RF645T 6GT2 810-2HC05 448 bit EPC, 256 byte UserMem  -40°C to 85°C 52 x 36 x 12,5 IP68	RF650T 6GT2 810-2HC00 128 bit EPC, 0 byte UserMem  -40°C to 55°C 54 x 24 x 9,8 IP68	RF670T 6GT2 810-2MG00 (ETSI) 6GT2 810-2MG10 (FCC) 496 bit EPC, 94 byte UserMem  -40°C to 140°C 43 x 33 x 7,5 IP68/IP69K	RF670T 6GT2 810-3MG00 (ETSI) 6GT2810-3MG10 (FCC) 496 bit EPC, 94 byte UserMem  -40°C to 250°C 40 x 30 x 4,1 IP67
RF690R (IP33) (external antenna used) 6GT2 811-7AD20-0AA0 (ETSI) 6GT2 811-7AD20-1AA0 (FCC) 6GT2 811-7AD20-2AA0 (CMIIT) RF695R (IP33) 6GT2 811-7DD20-0AA0 (ETSI) 6GT2 811-7DD20-1AA0 (FCC) 6GT2 811-7DD20-2AA0 (CMIIT)  Antennas: 6GT2 812-0EA00 RF615A, linear, (ETSI) 6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT, ARIB) 6GT2 812-2EA00 RF622A, linear, (ETSI) 6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT, ARIB) 6GT2 812-1GA08 RF642A, linear, (all readers) 6GT2 812-0GB08 RF650A, circular, (all readers) 6GT2 812-1AA08 RF662A circular, (all readers)	RF615A  52 x 52 x 16 0.8 (31)		1.5 (59)	0.8 (31)	1.0 (39)	1.0 (39)
	RF622A  75 x 75 x 20 1.0 (39)		1.8 (71)	1.3 (51)	1.6 (63)	1.6 (63)
	RF642A  185 x 185 x 45 4.0 (157)		5.0 (197)	4.5 (177)	5.0 (197)	5.0 (197)
	RF650A  198 x 198 x 60 2.0 (79)		4.0 (157)	2.5 (98)	4.5 (177)	4.5 (177)
	RF662A  312 x 312 x 68 3.0 (118)		5.0 (197)	5.0 (197)	6.0 (236)	6.0 (236)
Accessories	** 3-way mounting kit (6GT2 890-2AB10) *** mounting plate (6GT2890-2AC00)		Mounting cover 6GT2898-5AA00 Retaining bracket 6GT2898-5AB00			

RF600 Family Matrix 865-868 MHz (ETSI) 902-928 MHz (FCC) Passive Tags (with Gen2 protocol) Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating	Antennas	RF671T 6GT2 810-2HF00 (ETSI) 6GT2810-2HF10 (FCC) 96 bit EPC, 4 byte UserMem  -40°C to 175°C 10,8 x 5,8 x 3,9 IP68	RF675T 6GT2 810-2EF00 (ETSI) 6GT2810-2EF10 (FCC) 128 bit EPC, 8 byte  -40°C to 100°C Ø 20 x 6 IP67	RF680T 6GT2 810-2HG81 240 bit EPC, 64 byte  -40°C to 220°C 130 x 32,6 x 16,5 IP68/ IPx9K	RF682T 6GT2 810-3HG81 224 bit EPC, 384 byte  -40°C to 220°C 130 x 32,6 x 16,5 IP68/ IPx9K	RF683T 6GT2 810-3HG00 224 bit EPC, 384 byte  -40°C to 220°C 130 x 32,6 x 16,5 IP68/ IPx9K
RF690R (IP33) (external antenna used) 6GT2 811-7AD20-0AA0 (ETSI) 6GT2 811-7AD20-1AA0 (FCC) 6GT2 811-7AD20-2AA0 (CMIIT)  RF695R (IP33) 6GT2 811-7DD20-0AA0 (ETSI) 6GT2 811-7DD20-1AA0 (FCC) 6GT2 811-7DD20-2AA0 (CMIIT) Antennas: 6GT2 812-0EA00 RF615A, linear, (ETSI) 6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT, ARIB) 6GT2 812-2EA00 RF622A, linear, (ETSI) 6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT, ARIB) 6GT2 812-1GA08 RF642A, linear, (all readers) 6GT2 812-0GB08 RF650A, circular, (all readers) 6GT2 812-1AA08 RF662A circular, (all readers)	 52 x 52 x 16	1.2 (47)	0.05 (2)	1.2 (47)	1.0 (39)	1.5 (59)
	 75 x 75 x 20	2,5 (98)	0.05 (2)	1.6 (63)	1.4 (55)	2.0 (79)
	 185 x 185 x 45	5.0 (197)	0.6 (24)	5.0 (197)	4.5 (177)	6.0 (236)
	 198 x 198 x 60	3.5 (138)	0.3 (12)	4.0 (157)	3.5 (138)	4.0 (157)
	 312 x 312 x 68	6.0 (236)	0.25 (10)	5.0 (197)	4.5 (177)	7,0 (275)
Accessories	** 3-way mounting kit (6GT2 890-2AB10) *** mounting plate (6GT2890-2AC00)			Retaining bracket 6GT2890-2AA00	Retaining bracket 6GT2890-2AA00	Retaining bracket 6GT2890-2AA00

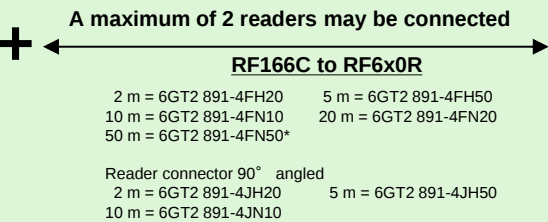
RF600 System Interfaces

RF600
System Interfaces

PROFINET & OPC UA & Ethernet/IP & TCP/IP



PROFIBUS



Reader

RF610R
(only internal antenna)
6GT2811-6BC10-0AA0 (ETSI)
6GT2811-6BC10-1AA0 (FCC)
6GT2811-6BC10-2AA0 (CMIIT)

RF615R
(internal antenna and optional 1 ext. antenna)
6GT2811-6CC10-0AA0 (ETSI)
6GT2811-6CC10-1AA0 (FCC)
6GT2811-6CC10-2AA0 (CMIIT)

RF615A
6GT2 812-0EA00; ETSI
6GT2 812-0EA01; FCC, etc.

RF622A
6GT2812-2EA00, ETSI
6GT2812-2EA01, FCC, etc.

RF642A
6GT2 812-1GA08

RF650A
6GT2 812-0GB08

RF662A
6GT2 812-1AA08

RF680A
6GT2 812-2GB08

Antenna Mounting kit
6GT2 890-2AB10

Antenna Cable

1m	= 6GT2815-0BH10
3m	= 6GT2 815-0BH30
5m, flex	= 6GT2 815-2BH50
10m,2dB	= 6GT2 815-1BN10
10m,4dB	= 6GT2 815-0BN10
15m,flex	= 6GT2 815-2BN15
20m	= 6GT2 815-0BN20
40m	= 6GT2 815-0BN40

Power Splitter
6GT2 890-0BC00
(do not use with RF680A)

Power supply
EU connector
6GT2 898-0AC00

UK connector
6GT2 898-0AC10

US connector
6GT2 898-0AC20

cable 24 V for power supply
5 m = 6GT2 891-0PH50
cable w/ open ends
2 m = 6GT2 891-4EH20
5 m = 6GT2 891-4EH50

optional

DI/DO cable 5m
6GT2891-0CH50

3-way mounting kit
6GT2890-2AB10

Mounting plate
6GT2890-2AC00

Cover caps
(6GT2898-4AA10)

Labels

- RF630L**
6GT2 810-2AB02-0AX2
6GT2 810-2AC84
6GT2810-2AE81-0AX3
6GT2810-2AE82-xAXx
6GT2810-2AE83-1AX0
6GT2 810-2AB04-0AX1
6GT2810-2AE83-0AX1
6GT2810-2AE83-0AX0
- RF642L**
6GT2 810-3AC00 (ETSI)
6GT2 810-3AC10 (FCC)
- RF682L**
6GT2810-2AG84-0AX2

Tags

- RF610T**
6GT2 810-2BB80
- RF620T**
6GT2 810-3HC80
- RF621T**
6GT2810-1HC80
- RF625T**
6GT2 810-2EE00 (ETSI)
6GT2 810-2EE01 (FCC)
- RF630T**
6GT2 810-2EC00 (ETSI)
6GT2 810-2EC10 (FCC)
- RF640T**
6GT2 810-2DC00 (ETSI)
6GT2 810-2DC10 (FCC)
- RF645T**
6GT2 810-2HC05

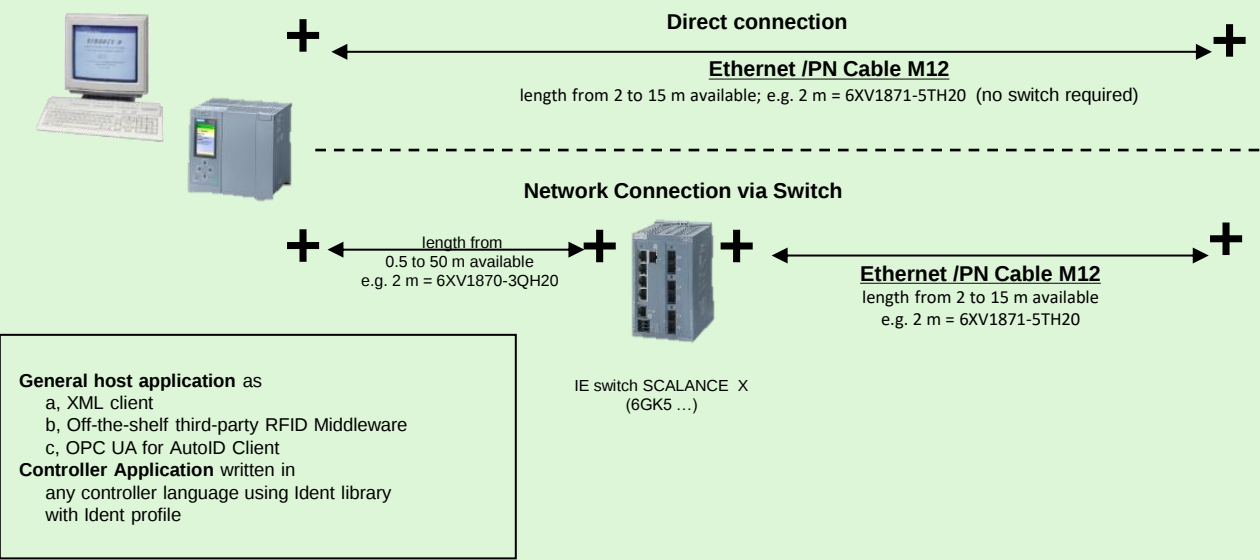
- RF650T**
6GT2810-2HC00
- RF670T**
6GT2 810-2MG00 (ETSI)
6GT2810-2MG10 (FCC)
6GT2810-3MG00 (ETSI)
6GT2810-3MG10 (FCC)

- RF671T**
6GT2810-2HF00 (ETSI)
6GT2810-2HF10 (FCC)
- RF675T**
6GT2810-2EF00 (ETSI)
6GT2810-2EF10 (FCC)

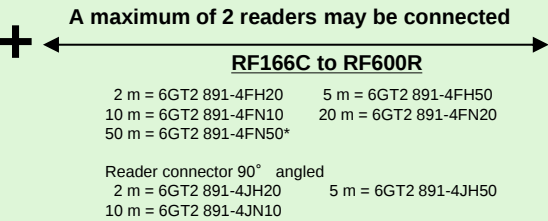
- RF680T**
6GT2 810-2HG81
- RF682T**
6GT2 810-3HG81
- RF683T**
6GT2 810-3HG00

RF600
System Interfaces

PROFINET & OPC UA & Ethernet/IP & TCP/IP



PROFIBUS



Reader

RF680R
(1 to 4 ext. antennas)
6GT2811-6AA10-0AA0 (ETSI)
6GT2811-6AA10-1AA0 (FCC)
6GT2811-6AA10-2AA0 (CMIIT)
6GT2811-6AA10-4AA0 (ARIB)

RF685R
(internal antenna and optional 1 ext. antenna)
6GT2811-6CA10-0AA0 (ETSI)
6GT2811-6CA10-1AA0 (FCC)
6GT2811-6CA10-2AA0 (CMIIT)
6GT2811-6CA10-4AA0 (ARIB)

RF615A
6GT2 812-0EA00; ETSI
6GT2 812-0EA01; FCC, etc.

RF622A
6GT2812-2EA00, ETSI
6GT2812-2EA01, FCC, etc.

RF642A
6GT2 812-1GA08

RF650A
6GT2 812-0GB08

RF662A
6GT2 812-1AA08

RF680A
6GT2 812-2GB08

Antenna Mounting kit
6GT2 890-2AB10

Antenna Cable

1m	= 6GT2815-0BH10
3m	= 6GT2 815-0BH30
5m, flex	= 6GT2 815-2BH50
10m, 2dB	= 6GT2 815-1BN10
10m, 4dB	= 6GT2 815-0BN10
15m, flex	= 6GT2 815-2BN15
20m	= 6GT2 815-0BN20
40m	= 6GT2 815-0BN40

Power Splitter
6GT2 890-0BC00
(do not use with RF680A)

Power supply

EU connector
6GT2 898-0AC00

UK connector
6GT2 898-0AC10

US connector
6GT2 898-0AC20

cable 24 V for power supply
5 m = 6GT2 891-0PH50,
cable w/ open ends
2 m = 6GT2 891-4EH20
5 m = 6GT2 891-4EH50

optional

DI/DO cable 5m
6GT2891-0CH50

3-way mounting kit
6GT2890-2AB10

Mounting plate
6GT2890-2AC00

Rail mounting set
6GT2890-0AB00

Cover caps
(6GT2898-4AA10)

Labels

RF630L
6GT2 810-2AB02-0AX2
6GT2 810-2AC84
6GT2810-2AE81-0AX3
6GT2810-2AE82-xAXx
6GT2810-2AE83-1AX0
6GT2 810-2AB04-0AX1
6GT2810-2AE83-0AX1
6GT2810-2AE83-0AX0

RF642L
6GT2 810-3AC00 (ETSI)
6GT2 810-3AC10 (FCC)

RF682L
6GT2810-2AG84-0AX2

Tags

RF610T
6GT2 810-2BB80

RF620T
6GT2 810-3HC80

RF621T
6GT2810-1HC80

RF625T
6GT2 810-2EE00 (ETSI)
6GT2 810-2EE01 (FCC)

RF630T
6GT2 810-2EC00 (ETSI)
6GT2 810-2EC10 (FCC)

RF640T
6GT2 810-2DC00 (ETSI)
6GT2 810-2DC10 (FCC)

RF645T
6GT2 810-2HC05

RF650T
6GT2810-2HC00

RF670T
6GT2 810-2MG00 (ETSI)
6GT2810-2MG10 (FCC)
6GT2810-3MG00 (ETSI)
6GT2810-3MG10 (FCC)

RF671T
6GT2810-2HF00 (ETSI)
6GT2810-2HF10 (FCC)

RF675T
6GT2810-2EF00 (ETSI)
6GT2810-2EF10 (FCC)

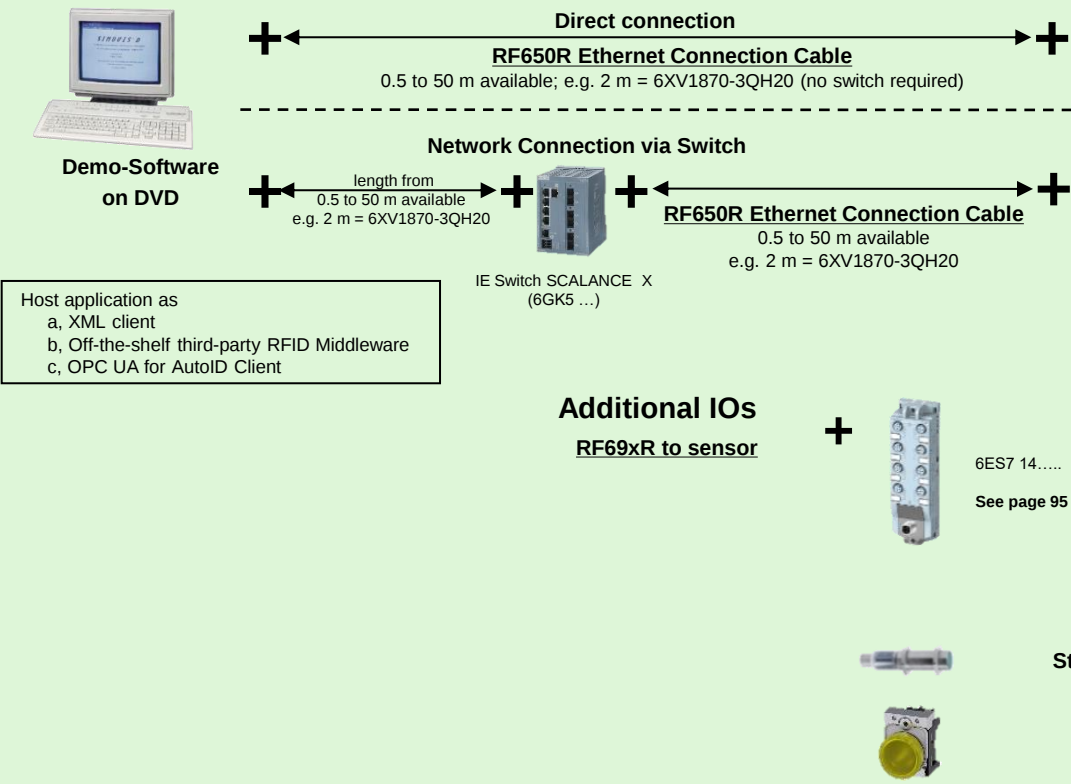
RF680T
6GT2 810-2HG81

RF682T
6GT2 810-3HG81

RF683T
6GT2 810-3HG00

RF600
System Interfaces

Ethernet TCP/IP & OPC/UA



Reader
with external power supply



RF690R
(1 to 4 ext. antennas)

6GT2 811-7AD20-0AA0 (ETSI)
6GT2 811-7AD20-1AA0 (FCC)
6GT2 811-7AD20-2AA0 (CMIIT)



RF695R
(1 to 8 ext. antennas)

6GT2 811-7DD20-0AA0 (ETSI)
6GT2 811-7DD20-1AA0 (FCC)
6GT2 811-7DD20-2AA0 (CMIIT)

Cover caps
(6GT2898-4AA10)

RF615A
6GT2 812-0EA00; ETSI
6GT2 812-0EA01; FCC, etc.

RF622A
6GT2812-2EA00, ETSI
6GT2812-2EA01, FCC, etc.

RF642A
6GT2 812-1GA08

RF650A
6GT2 812-0GB08

RF662A
6GT2 812-1AA08

Antenna Mounting kit
6GT2 890-2AB10

Antenna Cable

1m	= 6GT2815-0BH10
3m	= 6GT2 815-0BH30
5m, flex	= 6GT2 815-2BH50
10m, 2dB	= 6GT2 815-1BN10
10m, 4dB	= 6GT2 815-0BN10
15m, flex	= 6GT2 815-2BN15
20m	= 6GT2 815-0BN20
40m	= 6GT2 815-0BN40

Power Splitter
6GT2 890-0BC00
(do not use with RF680A)

Power supply

EU connector
6GT2 898-0AC00

UK connector
6GT2 898-0AC10

US connector
6GT2 898-0AC20

optional

3-way mounting kit
6GT2890-2AB10

Mounting plate
6GT2890-2AC00

Scalance CLP
6GK1900-0UB00-0AA0

Labels

RF630L
6GT2 810-2AB02-0AX2
6GT2 810-2AC84
6GT2810-2AE81-0AX3
6GT2810-2AE82-xAXx
6GT2810-2AE83-1AX0
6GT2 810-2AB04-0AX1
6GT2810-2AE83-0AX1
6GT2810-2AE83-0AX0

RF642L
6GT2 810-3AC00 (ETSI)
6GT2 810-3AC10 (FCC)

RF682L
6GT2810-2AG84-0AX2

Tags

RF610T
6GT2 810-2BB80

RF620T
6GT2 810-3HC80

RF621T
6GT2810-1HC80

RF625T
6GT2 810-2EE00 (ETSI)
6GT2 810-2EE01 (FCC)

RF630T
6GT2 810-2EC00 (ETSI)
6GT2 810-2EC10 (FCC)

RF640T
6GT2 810-2DC00 (ETSI)
6GT2 810-2DC10 (FCC)

RF645T
6GT2 810-2HC05

RF650T
6GT2810-2HC00

RF670T
6GT2 810-2MG00 (ETSI)
6GT2810-2MG10 (FCC)
6GT2810-3MG00 (ETSI)
6GT2810-3MG10 (FCC)

RF671T
6GT2810-2HF00 (ETSI)
6GT2810-2HF10 (FCC)

RF675T
6GT2810-2EF00 (ETSI)
6GT2810-2EF10 (FCC)

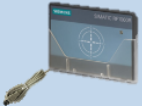
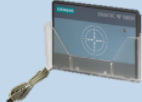
RF680T
6GT2 810-2HG81

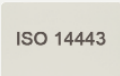
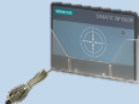
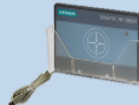
RF682T
6GT2 810-3HG81

RF683T
6GT2 810-3HG00

RF1000 Family Matrix

13.56 MHz – passive tags

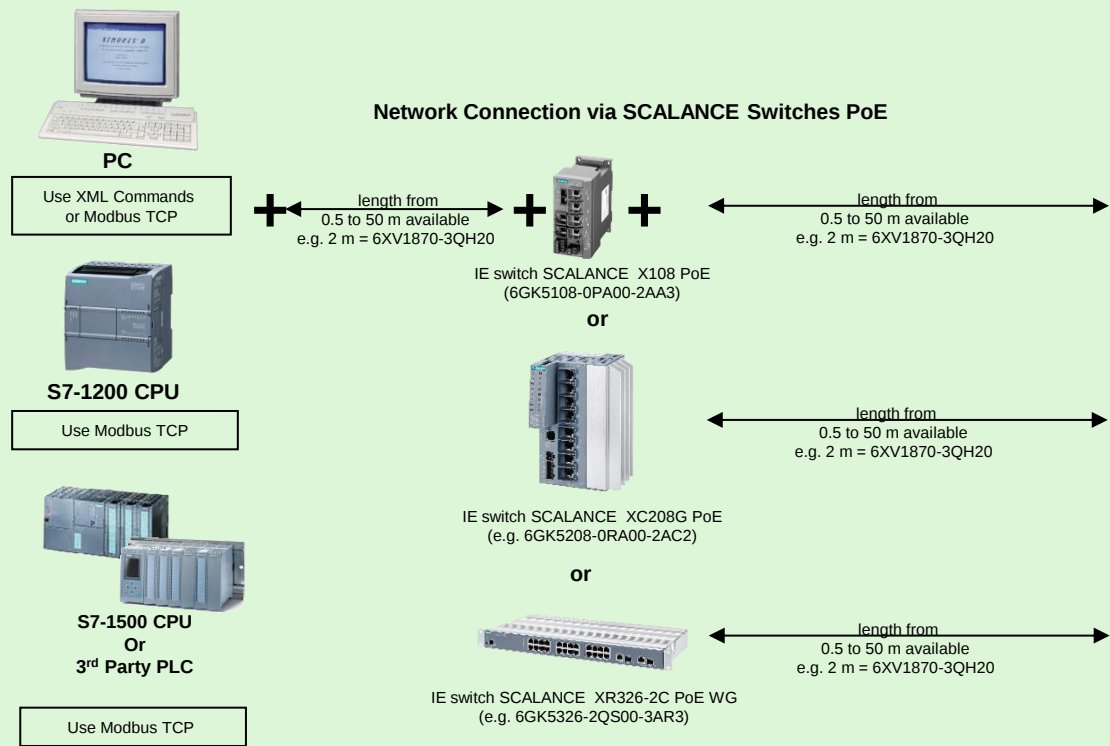
RF1000 Family Matrix 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	D100 6GT2 600-0AD10 112 byte EEPROM  -25°C to 80°C 85.6 x 54 x 0.9 IP68	D200 6GT2 600-1AD00 -0AX0 256 byte EEPROM  -20°C to 60°C 85.6 x 54 x 0.8 IP67	D400 6GT2 600-4AD00 2 kbyte FRAM  -20°C to 60°C 85.6 x 54 x 0.8 IP67	D124 6GT2 600-0AC10 112 byte EEPROM  -40°C to 180°C Ø 27 x 4 IP68/ IPx9K	D324 6GT2 600-3AC00 992 byte EEPROM  -40°C to 140°C Ø 27 x 4 IP67	D424 6GT2 600-4AC00 2 kbyte FRAM  -40°C to 100°C Ø 27 x 4 IP67/ IPx9K	D524 6GT2 600-5AC00 8 kbyte FRAM  -40°C to 100°C Ø 27 x 4 IP67 / IPx9k	D226s 6GT2600-2BA00 316 byte EEPROM  -40°C to 90°C Ø 30 x 3 IP68	D426s 6GT2600-4BA00 2000 byte FRAM  -40°C to 90°C Ø 30 x 3 IP68
	RF1040R (USB, RS232) 6GT2831-6CA60 	30 (1.18)	30 (1.18)	30 (1.18)	10 (0.39)	10 (0.39)	10 (0.39)	10 (0.39)	10 (0.39)
	RF1060R (USB) 6GT2831-6AA60 	30 (1.18)	30 (1.18)	30 (1.18)	10 (0.39)	10 (0.39)	10 (0.39)	10 (0.39)	10 (0.39)
	RF1070R (USB, RS232) 6GT2831-6BA60 6GT2831-6BA60-0AX0 (OEM) 	30 (1.18)	30 (1.18)		10 (0.39)	10 (0.39)		10 (0.39)	10 (0.39)
	RF1140R 6GT2831-6CB00 (OPC UA / XML / Modbus-TCP) 	30 (1.18)	30 (1.18)		10 (0.39)	10 (0.39)	10 (0.39)	10 (0.39)	10 (0.39)
	RF1170R 6GT2831-6BB00 (OPC UA / XML / Modbus-TCP) 	30 (1.18)	30 (1.18)		10 (0.39)	10 (0.39)		10 (0.39)	10 (0.39)

RF1000 Family Matrix 13.56 MHz and 125 kHz passive tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating	D126 6GT2 600-0AE00 112 byte EEPROM  -40°C to 100°C Ø 50 x 3.6 IP68	D426 6GT2 600-4AH00 2 kbyte FRAM  -40°C to 100°C Ø 50 x 3.6 IP68	D526 6GT2 600-5AH00 8 kbyte FRAM  -40°C to 100°C Ø 50 x 3.6 IP68	E600 6GT2 300-0AA00 752 byte EEPROM  -25°C to 60°C 86 x 54 x 0.76 IP68	E611 6GT2 300-0BB00 752 byte EEPROM  -40°C to 85°C 86 x 54 x 2.5 IP67	ISO 14443  Company badges and transponders acc. ISO 14443 A/B	Legic  Company badges and Transponders acc. Legic Prime and Legic Advant	125 kHz (LF)  Company badges and Transponders acc. Hitag 1/2/S EM41xx, EKS and more
	RF1040R (USB, RS232) 6GT2831-6CA60 	30 (1.18)	30 (1.18)	30 (1.18)	30 (1.18)	30 (1.18)		30 (1.18)
	RF1060R (USB) 6GT2831-6AA60 	30 (1.18)	30 (1.18)	30 (1.18)	30 (1.18)	30 (1.18)		
	RF1070R (USB, RS232) 6GT2831-6BA60 6GT2831-6BA60-0AX0 (OEM) 	30 (1.18)			30 (1.18)	30 (1.18)	30 (1.18)	
	RF1140R 6GT2831-6CB00 (OPC UA / XML / Modbus-TCP) 	30 (1.18)	30 (1.18)	30 (1.18)	30 (1.18)	30 (1.18)		30 (1.18)
	RF1170R 6GT2831-6BB00 (OPC UA / XML / Modbus-TCP) 	30 (1.18)			30 (1.18)	30 (1.18)	30 (1.18)	

RF1000 System Interfaces

RF1000
System Interfaces

OPC UA & Ethernet TCP/IP & Modbus TCP (PoE): 100MB



Example LOGO! with Modbus:

<https://support.industry.siemens.com/cs/ww/en/view/109823376>

Example S7-1500 / S7-1200 with Modbus:

<https://support.industry.siemens.com/cs/ww/en/view/109816534>

Example XML Demo Applikation for PC Integration:

<https://support.industry.siemens.com/cs/ww/en/view/109824195>

OPC UA client example for RFID devices:

<https://support.industry.siemens.com/cs/ww/en/view/109769038>

Reader

powered through connection cable

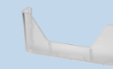


RF1140R
(6GT2831-6CB00)



RF1170R
(6GT2831-6BB00)

Optional
Card holder
6GT2 890-0CA00



Cleanroom cap
(no usage with card holder)



for control cabinet mount
6GT2890-0CD00 *****

Tags



D100 (6GT2 600-0AD10)
D200 (6GT2 600-1AD00 -0AX0)
D400 (6GT2 600-4AD00)*



D124 (6GT2 600-0AC10)
D324 (6GT2 600-3AC00)
D424 (6GT2 600-4AC00)*
D524 (6GT2 600-5AC00)*



D126 (6GT2 600-0AE00)
D426 (6GT2 600-4AH00)*
D526 (6GT2 600-5AH00)*



D226s (6GT2600-2BA00)
D426s (6GT2600-4BA00)

ISO 14443

Company badges and
transponders
acc. ISO 14443 A/B
Incl. MDS E600/E611

ISO 15693

Transponders
acc. ISO 15693

Legic Prime **)

Company badges
and Transponders
acc. Legic Prime
and Legic Advant

LF RFID

Company badges
and Transponders
acc. Hitag 1/2/S,
EM41xx, EKS and more

Tag restrictions:

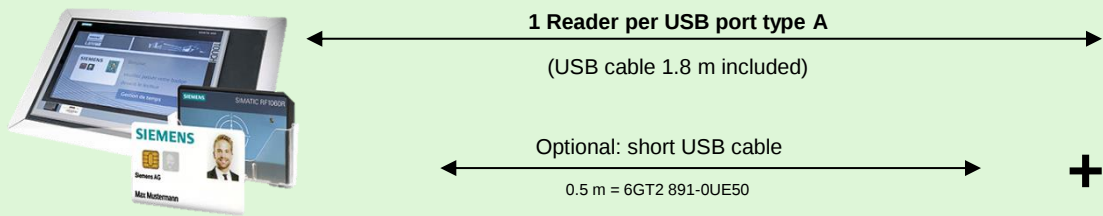
* not for RF1170R

** only with RF1170R

*** only with RF1140R

RF1000
System Interfaces

USB



DLL and simple Demo for PC:

<https://support.industry.siemens.com/cs/ww/en/view/109741590>

Local user administration for
Comfort Panels and IPC:

<https://support.industry.siemens.com/cs/de/en/view/109754400>

(included in SIMATIC HMI Option+)

Central user management PM Logon

Webpage: <https://www.siemens.com/pm-logon>

PM-logon V3.0: <https://support.industry.siemens.com/cs/ww/en/view/109987466>

Example: <https://support.industry.siemens.com/cs/ww/en/view/109963327>

SIMATIC Logon / Logon Remote Access

<https://support.industry.siemens.com/cs/ww/en/view/109749167>

Reader

Powered through USB cable



RF1040R
(6GT2 831-6CA60)



RF1060R
(6GT2 831-6AA60)



RF1070R
(6GT2 831-6BA60)
(6GT2 831-6BA60-0AX0, OEM)

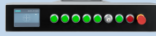
Optional:



Card holder
6GT2 890-0CA00

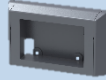


Config-Card
(for customer-specific reader configuration)
6GT2300-0CC00-0AX0



Extension unit IP65 for operator controls

12" 6AV7674-1LA31-0AA0
15" 6AV7674-1LA41-0AA0
19" 6AV7674-1LA51-0AA0
22" 6AV7674-1LA61-0AA0



Housing for desktop and wall mounting
6GT2890-0CB00

Cleanroom cap
(no usage with card holder)



for wall mount
6GT2890-0CC00
requires 6GT2890-0CB00



for control cabinet mount
6GT2890-0CD00

Tags



D100 (6GT2 600-0AD10)
D200 (6GT2 600-1AD00 -0AX0)
D400 (6GT2 600-4AD00)*



D124 (6GT2 600-0AC10)
D324 (6GT2 600-3AC00)
D424 (6GT2 600-4AC00)*
D524 (6GT2 600-5AC00)*



D126 (6GT2 600-0AE00)
D426 (6GT2 600-4AH00)*
D526 (6GT2 600-5AH00)*



D226s (6GT2600-2BA00)
D426s (6GT2600-4BA00)

ISO 14443

Company badges and transponders acc. ISO 14443 A/B Incl. MDS E600/E611

ISO 15693

Transponders acc. ISO 15693

Legic Prime **)

Company badges and Transponders acc. Legic Prime and Legic Advant

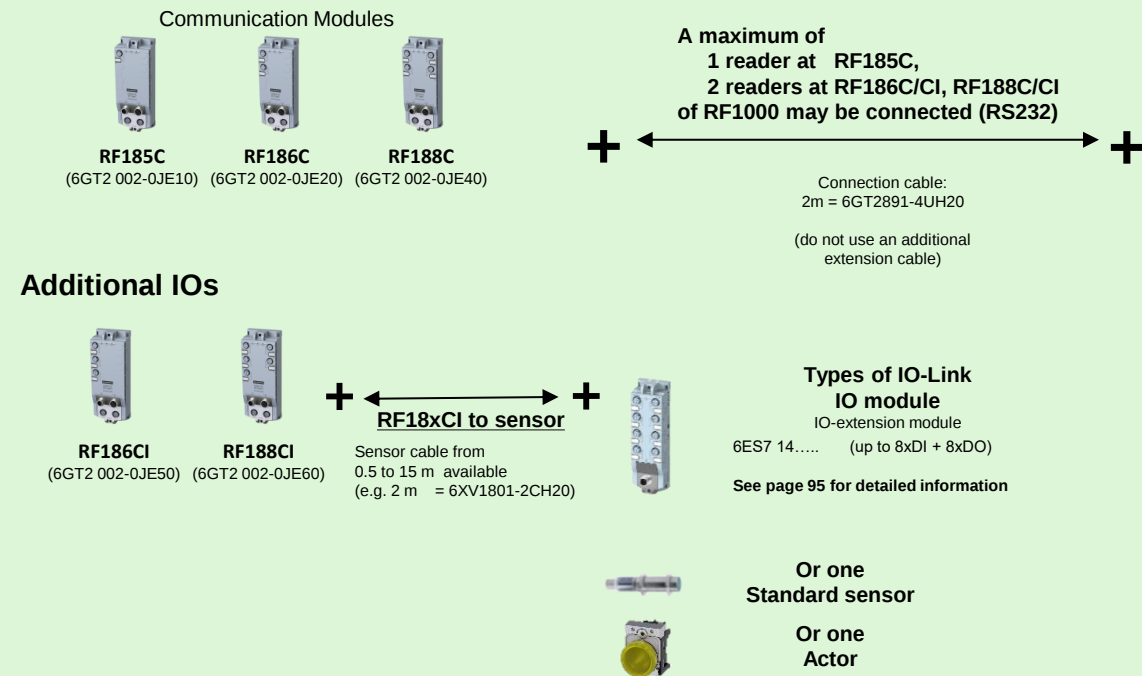
LF RFID ***)

Company badges and Transponders acc. Hitag 1/2/S, EM41xx, EKS and more

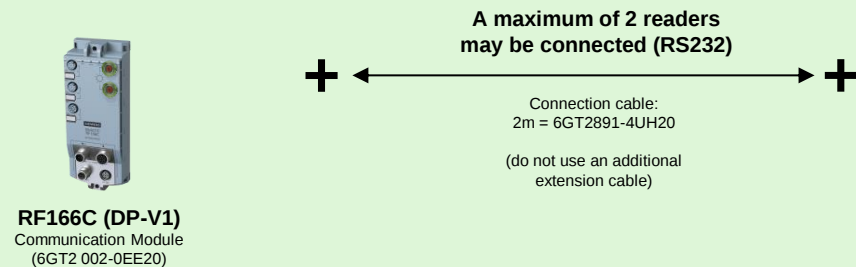
Tag restrictions:
* not for RF1170R
** only with RF1170R
*** only with RF1140R

RF1000
System Interfaces

PROFINET & Ethernet/IP



PROFIBUS



Reader
Powered through connection cable

Optional:

Card holder 6GT2 890-0CA00

Config-Card (for customer-specific reader configuration) 6GT2300-0CC00-0AX0

Extension unit IP65 for operator controls

12" 6AV7674-1LA31-0AA0
15" 6AV7674-1LA41-0AA0
19" 6AV7674-1LA51-0AA0
22" 6AV7674-1LA61-0AA0

Housing for desktop and wall mounting 6GT2890-0CB00

Cleanroom cap (no usage with card holder)

for wall mount 6GT2890-0CC00 requires 6GT2890-0CB00

for control cabinet mount 6GT2890-0CD00

RF1040R (6GT2 831-6CA60)

RF1070R (6GT2 831-6BA60) (6GT2 831-6BA60-0AX0, OEM)

Tags

D100 (6GT2 600-0AD10)
D200 (6GT2 600-1AD00 -0AX0)
D400 (6GT2 600-4AD00)*

D124 (6GT2 600-0AC10)
D324 (6GT2 600-3AC00)
D424 (6GT2 600-4AC00)*
D524 (6GT2 600-5AC00)*

D126 (6GT2 600-0AE00)
D426 (6GT2 600-4AH00)*
D526 (6GT2 600-5AH00)*

D226s (6GT2600-2BA00)
D426s (6GT2600-4BA00)

ISO 14443

Company badges and transponders acc. ISO 14443 A/B Incl. MDS E600/E611

ISO 15693

Transponders acc. ISO 15693

Legic Prime **)

Company badges and Transponders acc. Legic Prime and Legic Advant

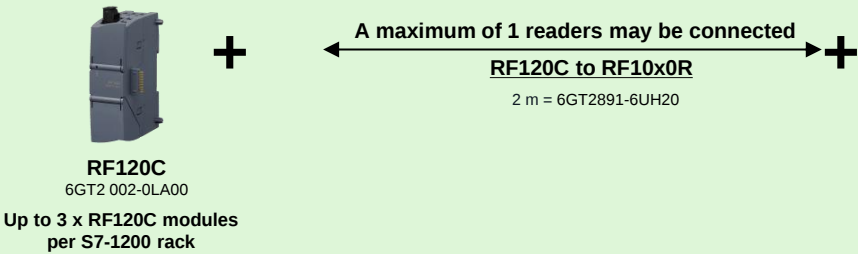
LF RFID

Company badges and Transponders acc. Hitag 1/2/S, EM41xx, EKS and more

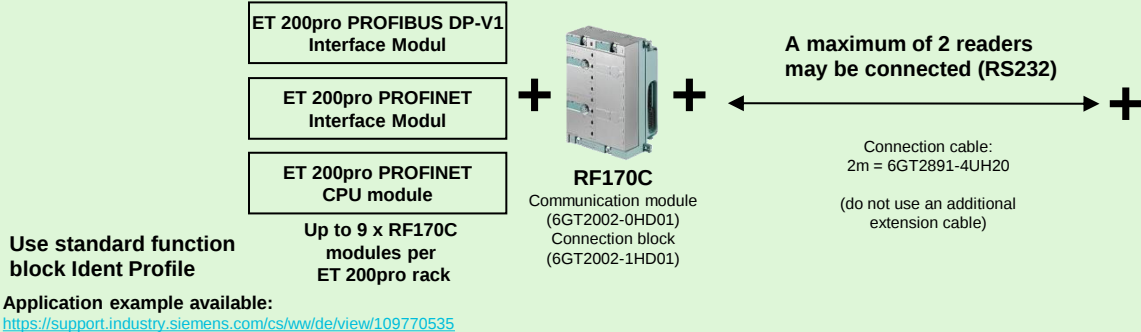
Tag restrictions:
* not for RF1170R
** only with RF1170R
*** only with RF1140R

RF1000
System Interfaces

SIMATIC PLC
S7-1200

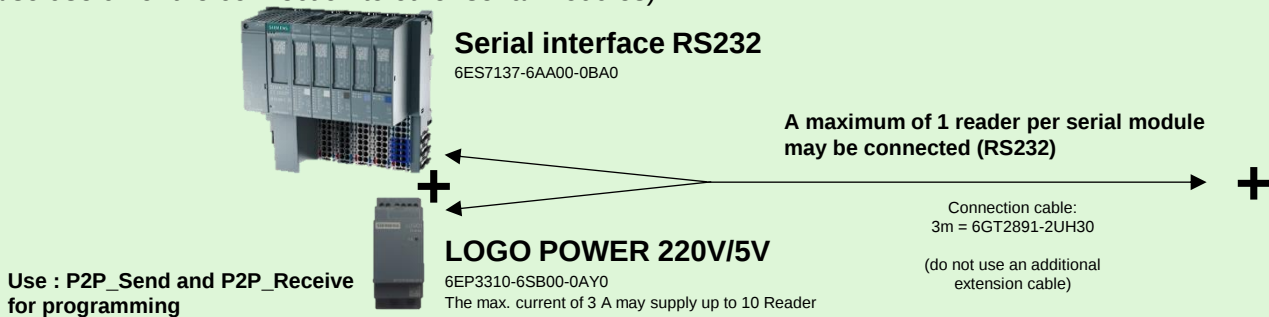


ET 200pro
via PROFIBUS
or PROFINET
or S7 PLC



ET 200SP via serial modul

(example; also useful for the connection to other serial modules)



Reader

Powered through connection cable

Optional:

Card holder
6GT2 890-0CA00

Config-Card
(for customer-specific
reader configuration)
6GT2300-0CC00-0AX0

**Extension unit IP65
for operator controls**

RF1040R
(6GT2 831-6CA60)

RF1070R
(6GT2 831-6BA60)
(6GT2 831-6BA60-0AX0,
OEM)

**Housing for desktop
and wall mounting**
6GT2890-0CB00

Cleanroom cap
(no usage with card holder)

for wall mount
6GT2890-0CC00
requires 6GT2890-0CB00

for control cabinet mount
6GT2890-0CD00

Tags

- D100 (6GT2 600-0AD10)
- D200 (6GT2 600-1AD00 -0AX0)
- D400 (6GT2 600-4AD00)*
- D124 (6GT2 600-0AC10)
- D324 (6GT2 600-3AC00)
- D424 (6GT2 600-4AC00)*
- D524 (6GT2 600-5AC00)*
- D126 (6GT2 600-0AE00)
- D426 (6GT2 600-4AH00)*
- D526 (6GT2 600-5AH00)*
- D226s (6GT2600-2BA00)
- D426s (6GT2600-4BA00)
- ISO 14443
- Company badges and transponders acc. ISO 14443 A/B Incl. MDS E600/E611
- ISO 15693
- Transponders acc. ISO 15693
- Legic Prime **)
- Company badges and Transponders acc. Legic Prime and Legic Advant
- LF RFID
- Company badges and Transponders acc. Hitag 1/2/S, EM41xx, EKS and more
- Tag restrictions:
* not for RF1170R
** only with RF1170R
*** only with RF1140R

SIMATIC RF HANDHELDS

SIMATIC RF Handhelds

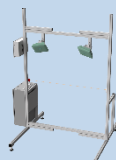
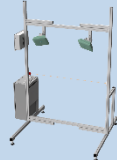
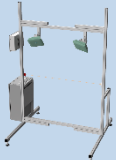
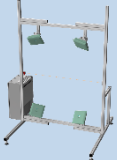
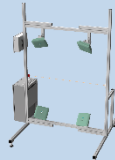
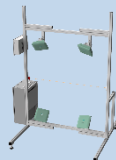
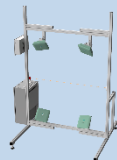
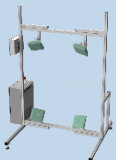
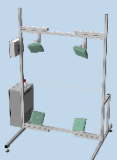
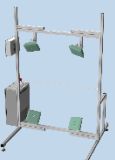
Handheld (w/o Reading Head)		Additional Components		Spare Parts
Mobile Reader Basic Device for HF and UHF Reading head with user software and rechargeable battery (without charging / docking unit)		Docking / Charging Unit 6GT2003-0FB00	Pistol Grip 6GT2093-0FG00	Spare Battery for RF160B 6GT2093-0FA00
	SIMATIC RF160B 6GT2003-0FA00			
UHF HEAD		HF HEAD		
Mobile Reader Basic Device for HF and UHF Reading head with user Software and rechargeable battery (without charging / docking station)				
	UHF Head ETSI (6GT2813-1FA00) 		HF Head with int Antenna (6GT2803-1FA00) 	
	UHF Head FCC (6GT2813-1FA10) 			
		UHF Head CMIIT (6GT2813-1FA20) 		HF Head for Antenna (6GT2803-1FA10) 

SIMATIC RF Handheld WITH EXT ANTENNA

HF HEAD																																
	HF Head for Antenna (6GT2803-1FA10) 	<table><tr><th colspan="3">External Antenna</th></tr><tr><th>Antenna without cable</th><th>MLFB</th><th>Suitable for</th></tr><tr><td>Ant 3</td><td>6GT2 398-1CD30-0AX0</td><td>D124, D160, D324, D422, D423, D424, D425, D428, D460, D522, D524, D525, D528, E624, RF320T, RF330T, RF340T, RF350T, RF360T</td></tr><tr><td>Ant 3S</td><td>6GT2 398-1CD50-0AX0</td><td>D117, D127, D421, D521</td></tr><tr><td>Ant 8</td><td>6GT2 398-1CF00</td><td>D117, D127, D421000</td></tr><tr><td>Ant 12 **</td><td>6GT2 398-1DC00</td><td>D117, D127, D160, D421, D428, D460, D521, D528, E623, RF330T</td></tr><tr><td>Ant 18 **</td><td>6GT2 398-1DA00</td><td>D117, D124, D127, D160, D226s, D324, D421, D422, D424, D425, D426s, D428, D460, D521, D522, D524, D525, D528, E623, E624, RF320T, RF330T, RF340T</td></tr><tr><td>Ant 30</td><td>6GT2 398-1DD00</td><td>D124, D126, D160, D226s, D324, D422, D423, D424, D425, D426, D426s, D428, D460, D522, D524, D525, D526, D528, E624, RF320T, RF330T, RF340T, RF350T, RF360T</td></tr><tr><th>Antenna cables</th><th>MLFB</th><th>Suitable for</th></tr><tr><td>0.1 m 0.6 m 3 m</td><td>6GT2 898-0EA00 6GT2 391-0AE60 6GT2 391-0AH30</td><td>For all antenna types above Only for antennas marked with ** For all antenna types above</td></tr></table>	External Antenna			Antenna without cable	MLFB	Suitable for	Ant 3	6GT2 398-1CD30-0AX0	D124, D160, D324, D422, D423, D424, D425, D428, D460, D522, D524, D525, D528, E624, RF320T, RF330T, RF340T, RF350T, RF360T	Ant 3S	6GT2 398-1CD50-0AX0	D117, D127, D421, D521	Ant 8	6GT2 398-1CF00	D117, D127, D421000	Ant 12 **	6GT2 398-1DC00	D117, D127, D160, D421, D428, D460, D521, D528, E623, RF330T	Ant 18 **	6GT2 398-1DA00	D117, D124, D127, D160, D226s, D324, D421, D422, D424, D425, D426s, D428, D460, D521, D522, D524, D525, D528, E623, E624, RF320T, RF330T, RF340T	Ant 30	6GT2 398-1DD00	D124, D126, D160, D226s, D324, D422, D423, D424, D425, D426, D426s, D428, D460, D522, D524, D525, D526, D528, E624, RF320T, RF330T, RF340T, RF350T, RF360T	Antenna cables	MLFB	Suitable for	0.1 m 0.6 m 3 m	6GT2 898-0EA00 6GT2 391-0AE60 6GT2 391-0AH30	For all antenna types above Only for antennas marked with ** For all antenna types above
		External Antenna																														
Antenna without cable	MLFB	Suitable for																														
Ant 3	6GT2 398-1CD30-0AX0	D124, D160, D324, D422, D423, D424, D425, D428, D460, D522, D524, D525, D528, E624, RF320T, RF330T, RF340T, RF350T, RF360T																														
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Ant 12 **	6GT2 398-1DC00	D117, D127, D160, D421, D428, D460, D521, D528, E623, RF330T																														
Ant 18 **	6GT2 398-1DA00	D117, D124, D127, D160, D226s, D324, D421, D422, D424, D425, D426s, D428, D460, D521, D522, D524, D525, D528, E623, E624, RF320T, RF330T, RF340T																														
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SIMATIC IDENT Conveyor Belt Gate

SIMATIC IDENT CB Gates

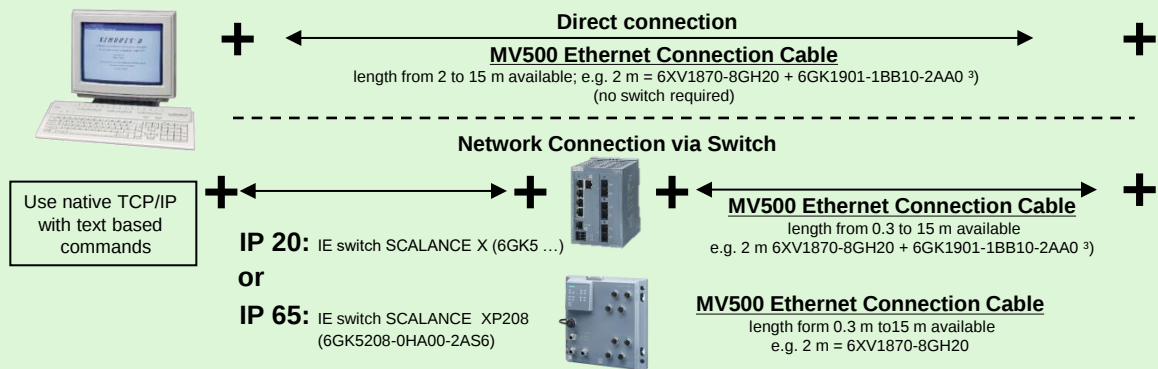
SIMATIC IDENT CB 2H Gate	SIMATIC IDENT CB 2H Gate CC	SIMATIC IDENT CB 2H Gate CMIIT	SIMATIC IDENT CB 4 Gate	SIMATIC IDENT CB 4H Gate
				
RFID federated band detection system with one reading point and two antennas (top) for easy coverage. Frequency range ETSI	RFID federated band detection system with one reading point and two antennas (top) for easy coverage. Frequency range FCC	RFID federated band detection system with one reading point and two antennas (top) for easy coverage. Frequency range CMIIT	RFID federated band detection system with one reading point and two antennas (top) for easy coverage. Frequency range ETSI. Without panel display.	RFID federated band detection system with one reading point and four antennas (top and bottom) for double-sided coverage. Frequency range ETSI
MLFB: 6GT2881-1AB02-0AA0	MLFB: 6GT2881-1AB02-1AA0	MLFB: 6GT2881-1AB02-2AA0	MLFB: 6GT2881-1AA04-0AA0	MLFB: 6GT2881-1AB04-0AA0
SIMATIC IDENT CB 4H Gate FCC	SIMATIC IDENT CB 4H Gate CMIIT	SIMATIC IDENT CB 4H Gate for Tire	SIMATIC IDENT CB 4H Gate FCC for Tire	SIMATIC IDENT CB 4H Gate CMIIT for Tire
				
RFID federated band detection system with one reading point and four antennas (top and bottom) for double-sided coverage. Frequency range FCC	RFID federated band detection system with one reading point and four antennas (top and bottom) for double-sided coverage. Frequency range CMIIT	RFID federated band detection system with two reading points and four antennas (top and bottom) for double-sided coverage optimized for tag position discrimination (top or bottom) in a tire. Frequency range ETSI	RFID federated band detection system with two reading points and four antennas (top and bottom) for double-sided coverage optimized for tag position discrimination (top or bottom) in a tire. Frequency range FCC	RFID federated band detection system with two reading points and four antennas (top and bottom) for double-sided coverage optimized for tag position discrimination (top or bottom) in a tire. Frequency range CMIIT
MLFB: 6GT2881-1AB04-1AA0	MLFB: 6GT2881-1AB04-2AA0	MLFB: 6GT2881-1AB04-0AB0	MLFB: 6GT2881-1AB04-1AB0	MLFB: 6GT2881-1AB04-2AB0

MV500

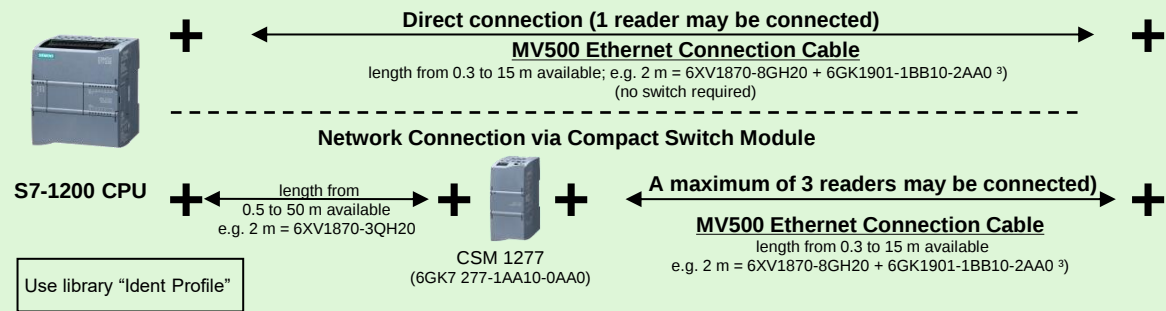
System Interfaces

MV500
System Interfaces

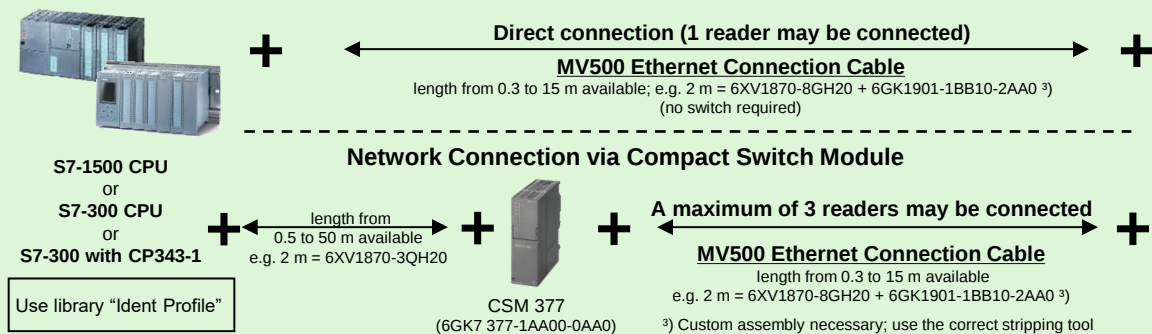
Ethernet TCP/IP



S7-1200 via Industrial Ethernet or PROFINET



S7-300/1500 via
Industrial
Ethernet or
PROFINET



Reader

With external power supply



MV530

S; 800 x 600 pixel:
(6GF3530-0CD10)
H; 1280 x 1024 pixel:
(6GF3530-0GE10)

Cable for power
supply

Open wires

10 m = 6GF3500-8BA21
10 m UL = 6GF3500-8BA23
30 m = 6GF3500-8BA41
30 m UL = 6GF3500-8BA43

or

Power supply

EU connector

6GT2 898-0AA00

UK connector

6GT2 898-0AA10

US connector

6GT2 898-0AA20

cable for 24 V

5 m = 6GT2 891-0PH50
+
50 cm = 6GF3500-8BA11
5 m = 6GF3500-8BA12

Options

DO

Wires included in
power supply cable
„Open wires“

Software

Pat-Genius
6GF3400-0SL03

Micro SD Card

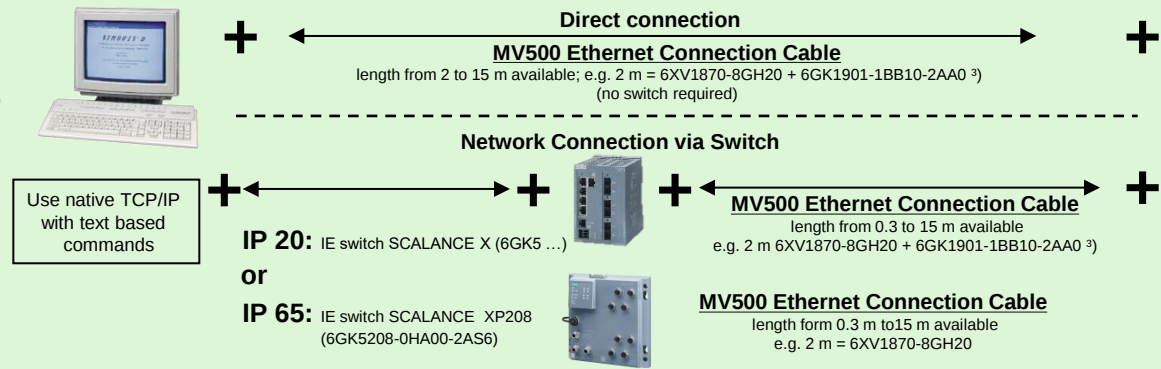
for Configuration
Backup; 4GB
6GK6000-8HT01-0SA2

Support

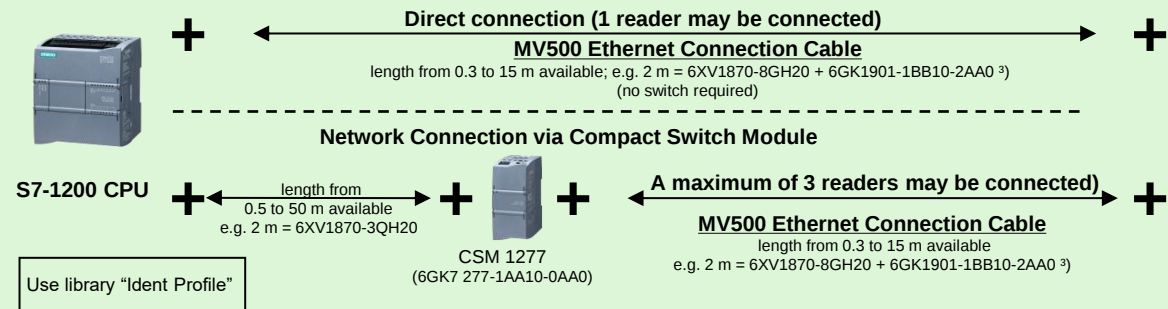
Mounting plate
6GF3440-8CA
Tri-plate
6GF9002-7AD

MV500
System Interfaces

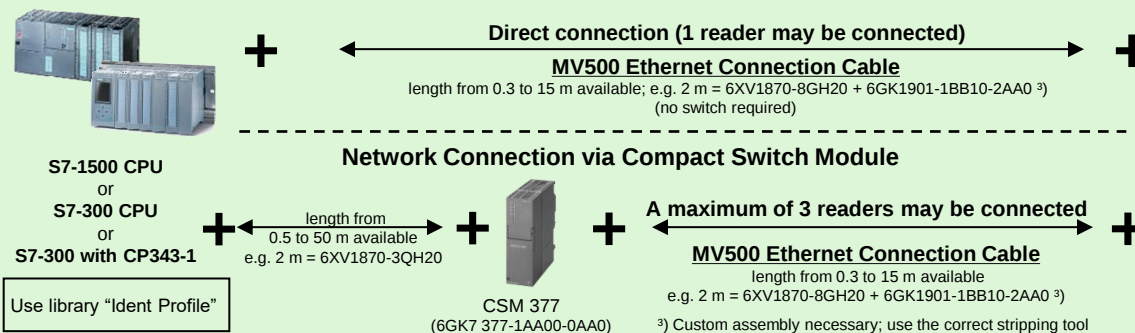
Ethernet TCP/IP



S7-1200 via Industrial Ethernet or PROFINET



S7-300/1500 via Industrial Ethernet or PROFINET



Reader

With external power supply

MV540
S: 800 x 600 pixel: (6GF3540-0CD10)
H: 1280 x 1024 pixel: (6GF3540-0GE10)

MV550
S: 800 x 600 pixel: (6GF3550-0CD10)
H: 1280 x 1024 pixel: (6GF3550-0GE10)

MV560
U: 1920 x 1200 pixel: (6GF3560-0LE10)
X: 2592 x 2048 pixel: (6GF3560-0HE10)

Manual focus lens
6 mm: 6GF9001-1BB01 ¹⁾
8.5 mm: 6GF9001-1BE01 ^{sh) 1)}
12 mm: 6GF9001-1BL01 ^{sh)}
12 mm: 6GF3560-8EA01-0FF0 ^{ux) 1)}
16 mm: 6GF9001-1BF01 ⁴⁾
16 mm: 6GF3560-8EA02-0FF0 ^{sh)}
25 mm: 6GF9001-1BG01 ^{ux) 1)}
25 mm: 6GF3560-8EA03-0FF0 ⁴⁾
35 mm: 6GF9001-1BH01 ^{sh)}
50 mm: 6GF9001-1BJ01 ^{ux) 1)}
75 mm: 6GF9001-1BK01 ^{shux) 2)}

E-Focus lens
12 mm: 6GF3540-8EA01-0LL0 ^{sh)}
16 mm: 6GF3540-8EA02-0LL0 ^{shux)}
25 mm: 6GF3540-8EA03-0LL0 ^{shux)}
35 mm: 6GF3540-8EA04-0LL0 ^{shux)}
50 mm: 6GF3540-8EA05-0LL0 ^{shux) 2)}

Cable for power supply
Open wires
10 m = 6GF3500-8BA21
10 m UL = 6GF3500-8BA23
30 m = 6GF3500-8BA41
30 m UL = 6GF3500-8BA43

Power supply
EU connector
6GT2 898-0AA00
UK connector
6GT2 898-0AA10
US connector
6GT2 898-0AA20
cable for 24 V
5 m = 6GT2 891-0PH50
+
50 cm = 6GF3500-8BA11
5 m = 6GF3500-8BA12

Lights build-in
red basic: 6GF3540-8DA11
red far: 6GF3540-8DA12
red multi: 6GF3540-8DA13
white multi: 6GF3540-8DA33
infrared basic: 6GF3540-8DA41
infrared far: 6GF3540-8DA42

Lights external: ring
Red: 6GF3400-0LT01-8DA1
Infrared: 6GF3400-0LT01-7BA1

Lights external: panel
20x20 cm: 6GF3500-8DF30-1DA0
30x20 cm: 6GF3500-8DF30-2DA0
40x30 cm: 6GF3500-8DF30-3DA0

Mounting aid
6GF3500-8CD

¹⁾ not in combination with build-in lights;
²⁾ use long version of protective lens cover always and only with 6GF9001-1BK01 and 6GF3540-8EA05-0LL0
⁴⁾ No usage of option „Micro SD Card“ with these lenses
^{shux)} indicates the types of camera which are allowed for usage; i.e. „“) means MV5x0U is allowed

Options

DO
Wires included in power supply cable „Open wires“

Software
Veri-Genius
6GF3400-0SL02
Pat-Genius
6GF3400-0SL03

Micro SD Card
for Configuration Backup; 4GB
6GK6000-8HT01-0SA2

Support
Mounting plate
6GF3440-8CA
Tri-plate
6GF9002-7AD

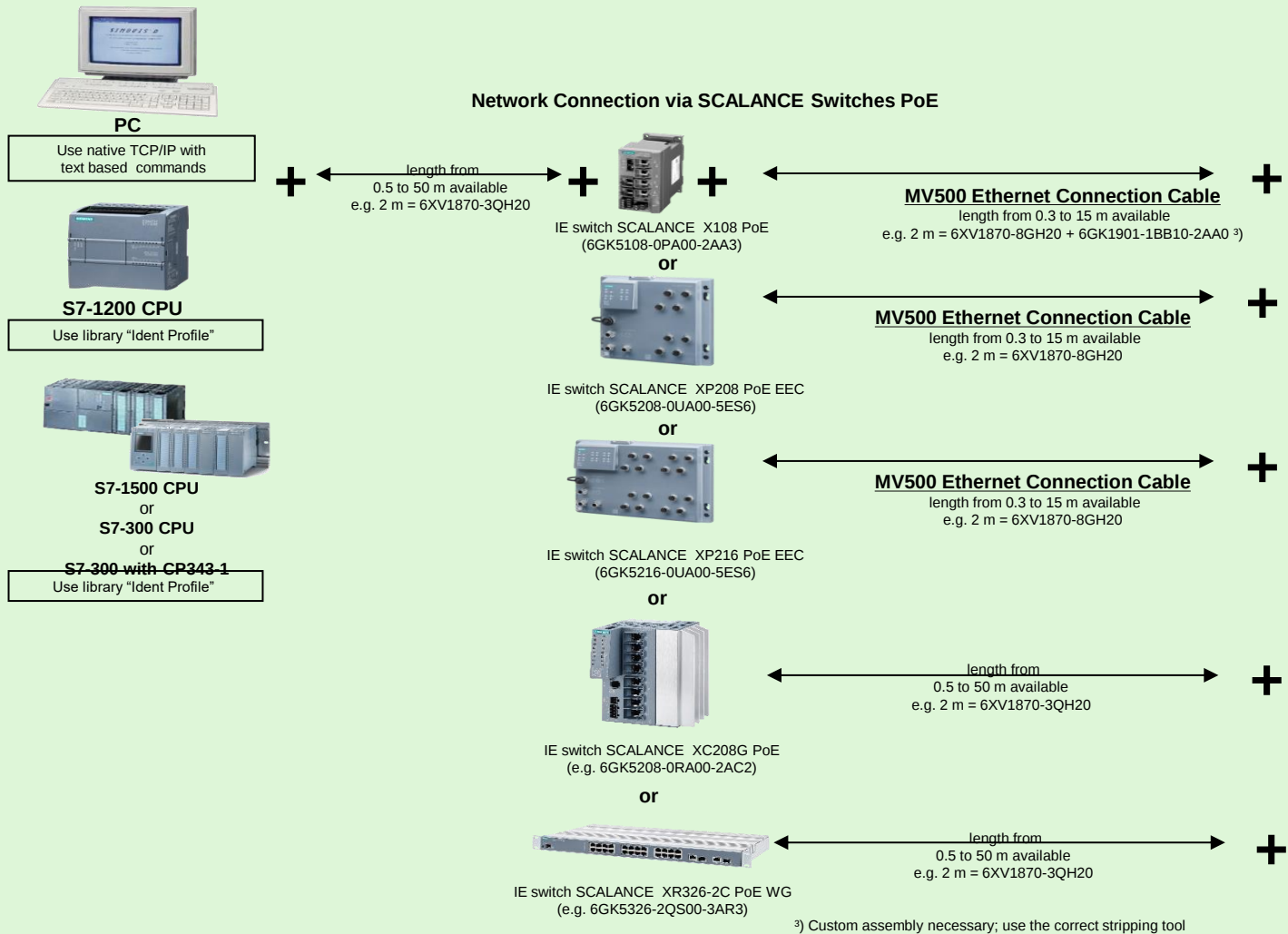
Opt. for Lens; Rings
0.5, 1, 5, 10, 20, 40 mm
6GF9001-1BU
0.5, 1 mm
6GF9001-1BU01
length doubler
6GF9001-1BV

Protective lens cover
Basic length glas
no filter 6GF3540-8AC11
red 6GF3540-8AC51
infrared 6GF3540-8AC41
IRUVcut 6GF3540-8AC31
Long version glas ²⁾
no filter 6GF3540-8AC12
red 6GF3540-8AC52
infrared 6GF3540-8AC42
IRUVcut 6GF3540-8AC32

Basic length PMMA
6GF3540-8AC21
Long version PMMA ²⁾
6GF3540-8AC22

MV500 System Interfaces

Ethernet TCP/IP or PROFINET (PoE): 100MB



Reader

With power supply over Ethernet (PoE)



MV530

S; 800 x 600 pixel:
(6GF3530-0CD10)
H; 1280 x 1024 pixel:
(6GF3530-0GE10)

Cable for power supply

Open wires

10 m = 6GF3500-8BA21
10 m UL = 6GF3500-8BA23
30 m = 6GF3500-8BA41
30 m UL = 6GF3500-8BA43

or

Power supply

EU connector

6GT2 898-0AA00

UK connector

6GT2 898-0AA10

US connector

6GT2 898-0AA20

cable for 24 V

5 m = 6GT2 891-0PH50
+
50 cm = 6GF3500-8BA11
5 m = 6GF3500-8BA12

Options

DO

Wires included in power supply cable „Open wires“

Software

Pat-Genius
6GF3400-0SL03

Micro SD Card

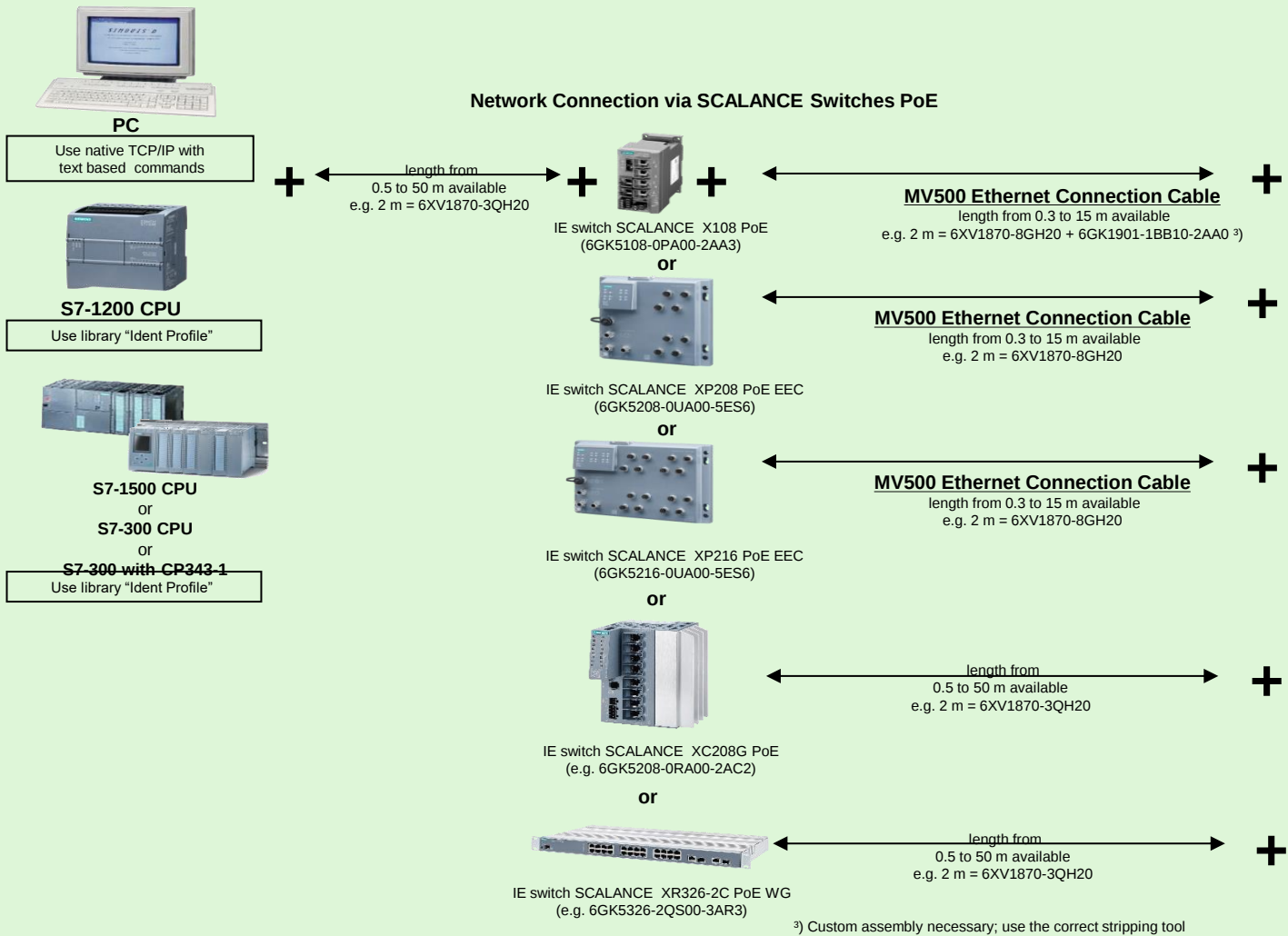
for Configuration Backup; 4GB
6GK6000-8HT01-0SA2

Support

Mounting plate
6GF3440-8CA
Tri-plate
6GF9002-7AD

MV500
System Interfaces

Ethernet TCP/IP or PROFINET (PoE): 100MB



Reader

With power supply over Ethernet (PoE)



MV540

S; 800 x 600 pixel:
(6GF3540-0CD10)
H; 1280 x 1024 pixel:
(6GF3540-0GE10)

MV550

S; 800 x 600 pixel:
(6GF3550-0CD10)
H; 1280 x 1024 pixel:
(6GF3550-0GE10)

MV560

U; 1920 x 1200 pixel:
(6GF3560-0LE10)
X; 2592 x 2048 pixel:
(6GF3560-0HE10)



Manual focus lens

6 mm: 6GF9001-1BB01 ^{s)}
8.5 mm: 6GF9001-1BE01 ^{sh)} 1)
12 mm: 6GF9001-1BL01 ^{sh)}
12 mm: 6GF3560-8EA01-0FF0 ^{ux)} 1)
16 mm: 6GF9001-1BF01 ⁴⁾
16 mm: 6GF3560-8EA02-0FF0 ^{sh)}
25 mm: 6GF9001-1BG01 ^{ux)} 1)
25 mm: 6GF3560-8EA03-0FF0 ⁴⁾
35 mm: 6GF9001-1BH01 ^{sh)}
50 mm: 6GF9001-1BJ01 ^{ux)} 1)
75 mm: 6GF9001-1BK01 ^{shux)} 2)
^{shux)}



E-Focus lens

12 mm: 6GF3540-8EA01-0LL0 ^{sh)}
16 mm: 6GF3540-8EA02-0LL0 ^{shux)}
25 mm: 6GF3540-8EA03-0LL0 ^{shux)}
35 mm: 6GF3540-8EA04-0LL0 ^{shux)}
50 mm: 6GF3540-8EA05-0LL0 ^{shux)} 2)
^{shux)}



Lights build-in

red basic: 6GF3540-8DA11
red far: 6GF3540-8DA12
red multi: 6GF3540-8DA13
white multi: 6GF3540-8DA33
infrared basic: 6GF3540-8DA41
infrared far: 6GF3540-8DA42

¹⁾ not in combination with build-in lights;
²⁾ use long version of protective lens cover always and only with 6GF9001-1BK01 and 6GF3540-8EA05-0LL0
⁴⁾ No usage of option „Micro SD Card“ with these lens
^{shux)} indicates the types of camera which are allowed for usage;
i.e. ⁴⁾ means MV5x0U is allowed

Options
DO

Additional cable for DO-supply is needed

10 m = 6GF3500-8BA21
30 m = 6GF3500-8BA41

Software

Veri-Genius
6GF3400-0SL02
Pat-Genius
6GF3400-0SL03

Micro SD Card

for Configuration
Backup; 4GB
6GK6000-8HT01-0SA2

Support

Mounting plate
6GF3440-8CA
Tri-plate
6GF9002-7AD

Opt. for Lens;
Rings

0.5, 1, 5, 10, 20, 40 mm
6GF9001-1BU

0.5, 1 mm
6GF9001-1BU01

length doubler
6GF9001-1BV

Protective lens
cover

Basic length glas
no filter 6GF3540-8AC11
red 6GF3540-8AC51
infrared 6GF3540-8AC41
IRUVcut 6GF3540-8AC31

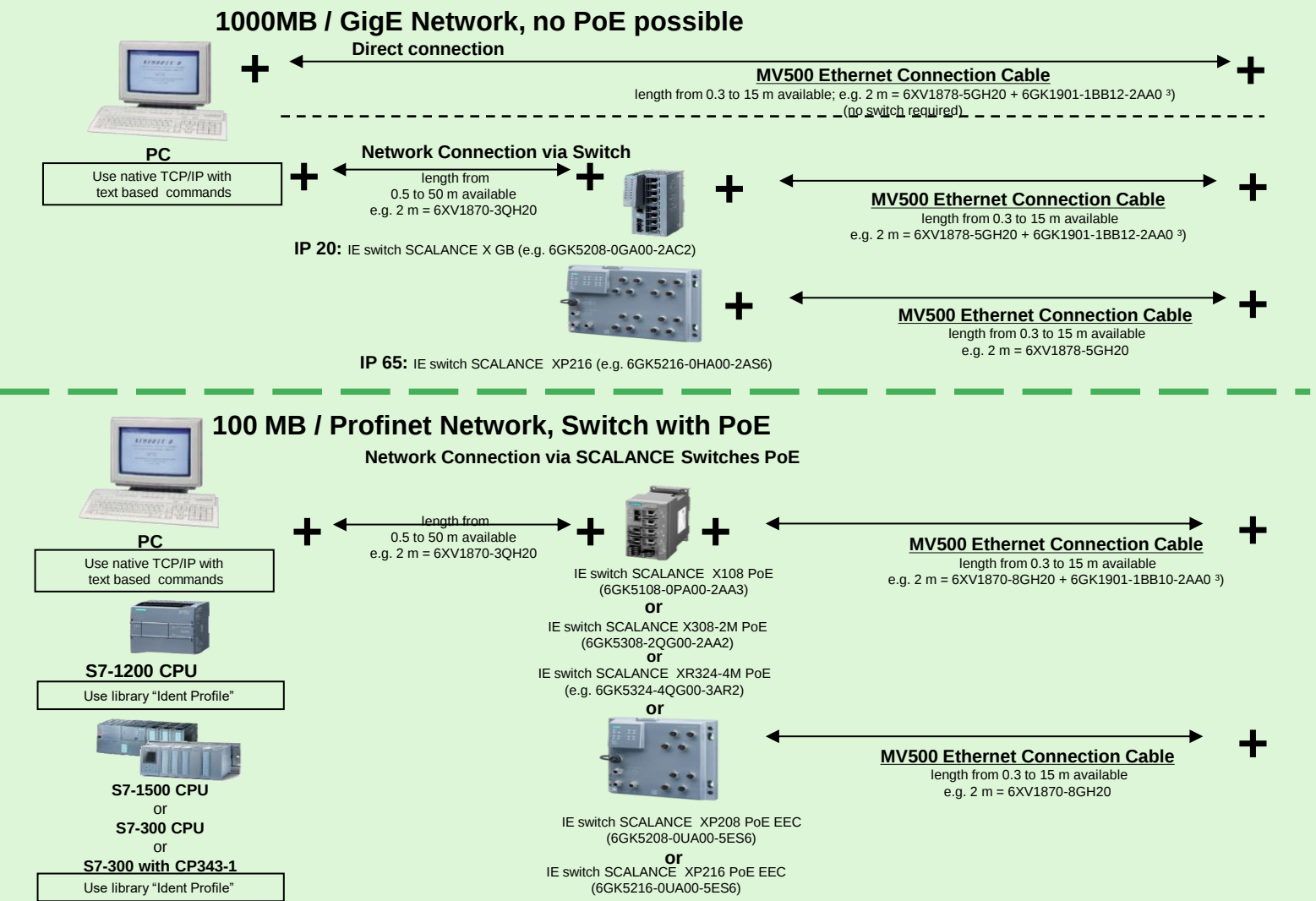
Long version glas ²⁾
no filter 6GF3540-8AC12
red 6GF3540-8AC52
infrared 6GF3540-8AC42
IRUVcut 6GF3540-8AC32

Basic length PMMA
6GF3540-8AC21

Long version PMMA ²⁾
6GF3540-8AC22

MV500
System Interfaces

Two parallel Networks on one Device: 1000MB + 100MB



Reader

With power supply over Ethernet (PoE)



MV550
S; 800 x 600 pixel:
(6GF3550-0CD10)
H; 1280 x 1024 pixel:
(6GF3550-0GE10)

MV560
U; 1920 x 1200 pixel:
(6GF3560-0LE10)
X; 2592 x 2048 pixel:
(6GF3560-0HE10)



Manual focus lens

6 mm:	6GF9001-1BB01	³⁾
8.5 mm:	6GF9001-1BE01	^{shy) 1)}
12 mm:	6GF9001-1BL01	^{shy)}
12 mm:	6GF3560-8EA01-0FF0	^{uxy) 1)}
16 mm:	6GF9001-1BF01	⁴⁾
16 mm:	6GF3560-8EA02-0FF0	^{shy)}
25 mm:	6GF9001-1BG01	^{uxy) 1)}
25 mm:	6GF3560-8EA03-0FF0	⁴⁾
35 mm:	6GF9001-1BH01	^{shy)}
50 mm:	6GF9001-1BJ01	^{uxy) 1)}
75 mm:	6GF9001-1BK01	^{shuxy) 2)}



E-Focus lens

12 mm:	6GF3540-8EA01-0LL0	^{shy)}
16 mm:	6GF3540-8EA02-0LL0	^{shy)}
25 mm:	6GF3540-8EA03-0LL0	^{shuxy)}
35 mm:	6GF3540-8EA04-0LL0	^{shuxy)}
50 mm:	6GF3540-8EA05-0LL0	^{shuxy) 2)}



Lights build-in

red basic:	6GF3540-8DA11
red far:	6GF3540-8DA12
red multi:	6GF3540-8DA13
white multi:	6GF3540-8DA33
infrared basic:	6GF3540-8DA41
infrared far:	6GF3540-8DA42

¹⁾ not in combination with build-in lights;
²⁾ use long version of protective lens cover always and only with 6GF9001-1BK01 and 6GF3540-8EA05-0LL0
⁴⁾ No usage of option „Micro SD Card“ with these lens
^{shuxy)} indicates the types of camera which are allowed for usage; i.e. „y“ means MV5x0U is allowed

Options

DO

Additional cable for DO-supply is needed

10 m = 6GF3500-8BA21
30 m = 6GF3500-8BA41

Software

Veri-Genius
6GF3400-0SL02
Pat-Genius
6GF3400-0SL03

Micro SD Card

for Configuration
Backup; 4GB
6GK6000-8HT01-0SA2

Support

Mounting plate
6GF3440-8CA
Tri-plate
6GF9002-7AD

Opt. for Lens;
Rings

0.5, 1, 5, 10, 20, 40 mm
6GF9001-1BU

0.5, 1 mm
6GF9001-1BU01

length doubler
6GF9001-1BV

Protective lens
cover

Basic length glas
no filter 6GF3540-8AC11
red 6GF3540-8AC51
infrared 6GF3540-8AC41
IRUVcut 6GF3540-8AC31

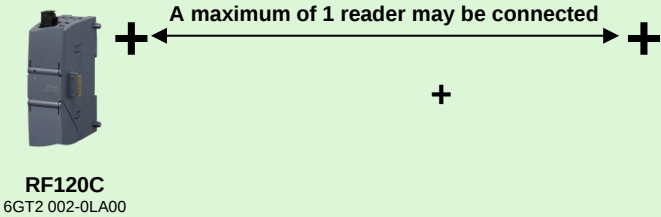
Long version glas ²⁾
no filter 6GF3540-8AC12
red 6GF3540-8AC52
infrared 6GF3540-8AC42
IRUVcut 6GF3540-8AC32

Basic length PMMA
6GF3540-8AC21

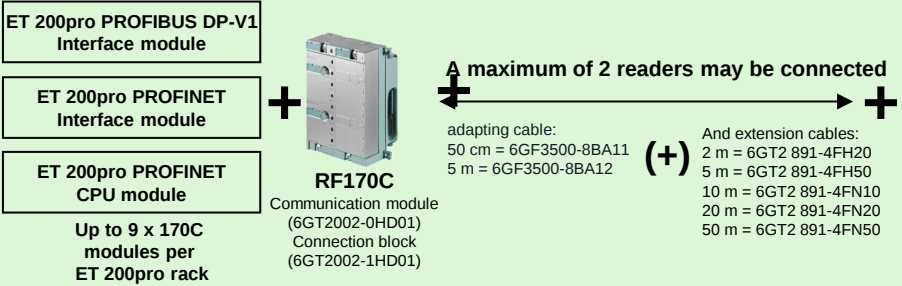
Long version PMMA ²⁾
6GF3540-8AC22

MV500
System Interfaces

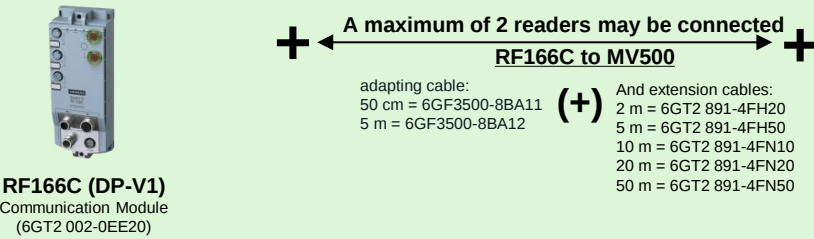
SIMATIC PLC
S7-1200



ET 200pro
via PROFIBUS
or PROFINET
or S7 PLC



PROFIBUS



Reader

With power supply over Ethernet (PoE)



MV530

S; 800 x 600 pixel:
(6GF3530-0CD10)
H; 1280 x 1024 pixel:
(6GF3530-0GE10)

Cable for power supply

Open wires

10 m = 6GF3500-8BA21
10 m UL = 6GF3500-8BA23
30 m = 6GF3500-8BA41
30 m UL = 6GF3500-8BA43

or

Power supply

EU connector

6GT2 898-0AA00

UK connector

6GT2 898-0AA10

US connector

6GT2 898-0AA20

cable for 24 V

5 m = 6GT2 891-0PH50
+
50 cm = 6GF3500-8BA11
5 m = 6GF3500-8BA12

Options

DO

Wires included in power supply cable „Open wires“

Software

Pat-Genius
6GF3400-0SL03

Micro SD Card

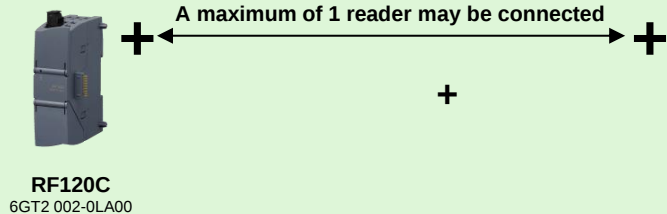
for Configuration Backup; 4GB
6GK6000-8HT01-0SA2

Support

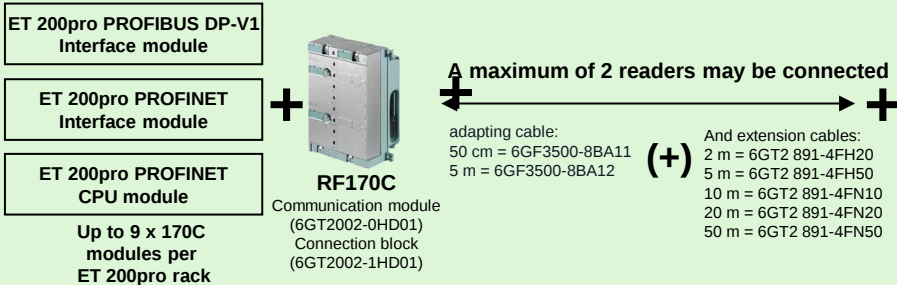
Mounting plate
6GF3440-8CA
Tri-plate
6GF9002-7AD

MV500
System Interfaces

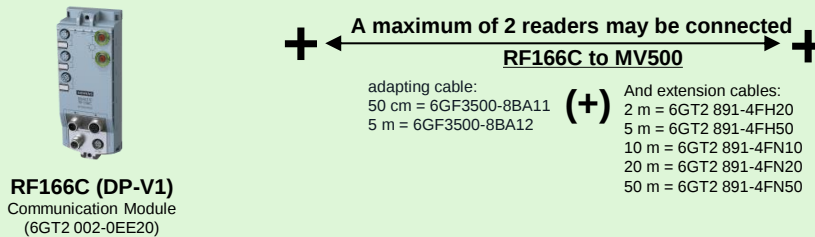
SIMATIC PLC
S7-1200



ET 200pro
via PROFIBUS
or PROFINET
or S7 PLC



PROFIBUS



Reader

With power supply over Ethernet (PoE)



MV540

S; 800 x 600 pixel:
(6GF3540-0CD10)
H; 1280 x 1024 pixel:
(6GF3540-0GE10)

MV550

S; 800 x 600 pixel:
(6GF3550-0CD10)
H; 1280 x 1024 pixel:
(6GF3550-0GE10)

MV560

U; 1920 x 1200 pixel:
(6GF3560-0LE10)
X; 2592 x 2048 pixel:
(6GF3560-0HE10)



Manual focus lens

6 mm: 6GF9001-1BB01 ^{s)}
8.5 mm: 6GF9001-1BE01 ^{sh)} 1)
12 mm: 6GF9001-1BL01 ^{sh)}
12 mm: 6GF3560-8EA01-0FF0 ^{ux)} 1)
16 mm: 6GF9001-1BF01 ⁴⁾
16 mm: 6GF3560-8EA02-0FF0 ^{sh)}
25 mm: 6GF9001-1BG01 ^{ux)} 1)
25 mm: 6GF3560-8EA03-0FF0 ⁴⁾
35 mm: 6GF9001-1BH01 ^{sh)}
50 mm: 6GF9001-1BJ01 ^{ux)} 1)
75 mm: 6GF9001-1BK01 ^{shux)} 2)
^{shux)}



E-Focus lens

12 mm: 6GF3540-8EA01-0LL0 ^{sh)}
16 mm: 6GF3540-8EA02-0LL0 ^{shux)}
25 mm: 6GF3540-8EA03-0LL0 ^{shux)}
35 mm: 6GF3540-8EA04-0LL0 ^{shux)}
50 mm: 6GF3540-8EA05-0LL0 ^{shux)} 2)
^{shux)}



Lights build-in

red basic: 6GF3540-8DA11
red far: 6GF3540-8DA12
red multi: 6GF3540-8DA13
white multi: 6GF3540-8DA33
infrared basic: 6GF3540-8DA41
infrared far: 6GF3540-8DA42

Options

Software

Veri-Genius
6GF3400-0SL02
Pat-Genius
6GF3400-0SL03

Micro SD Card

for Configuration
Backup; 4GB
6GK6000-8HT01-0SA2

Support

Mounting plate
6GF3440-8CA
Tri-plate
6GF9002-7AD

Opt. for Lens;
Rings

0.5, 1, 5, 10, 20, 40 mm
6GF9001-1BU

0.5, 1 mm
6GF9001-1BU01

length doubler
6GF9001-1BV

Protective lens
cover

Basic length glas
no filter 6GF3540-8AC11
red 6GF3540-8AC51
infrared 6GF3540-8AC41
IRUVcut 6GF3540-8AC31

Long version glas ²⁾
no filter 6GF3540-8AC12
red 6GF3540-8AC52
infrared 6GF3540-8AC42
IRUVcut 6GF3540-8AC32

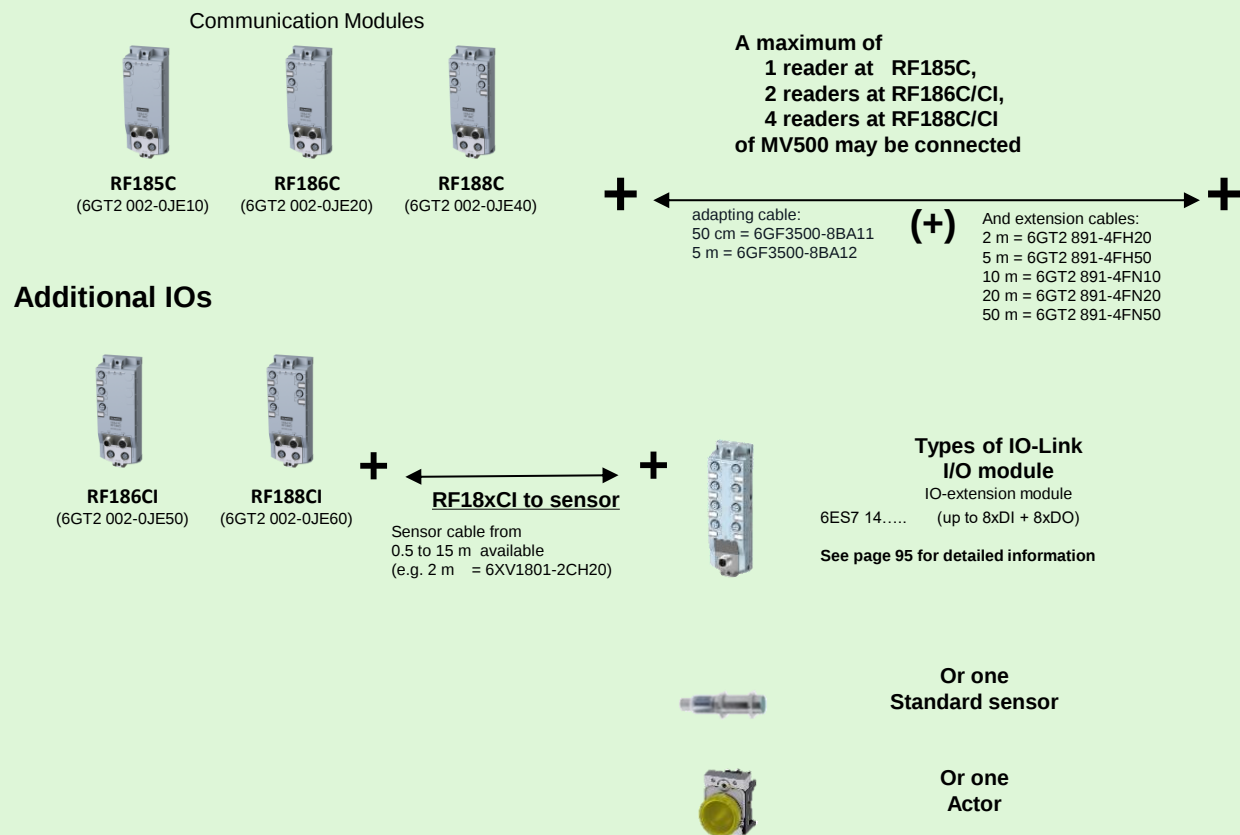
Basic length PMMA
6GF3540-8AC21

Long version PMMA ²⁾
6GF3540-8AC22

1) not in combination with build-in lights;
2) use long version of protective lens cover always and only
with 6GF9001-1BK01 and 6GF3540-8EA05-0LL0
4) No usage of option „Micro SD Card“ with these lens
^{shux)} indicates the types of camera which are allowed for usage;
i.e. ⁴⁾ means MV5x0U is allowed

MV500
System Interfaces

PROFINET & Ethernet/IP & OPC UA & TCP/IP



Reader

With power supply over Ethernet (PoE)



MV530

S; 800 x 600 pixel:
(6GF3530-0CD10)
H; 1280 x 1024 pixel:
(6GF3530-0GE10)

Cable for power
supply

Open wires

10 m = 6GF3500-8BA21
10 m UL = 6GF3500-8BA23
30 m = 6GF3500-8BA41
30 m UL = 6GF3500-8BA43

or

Power supply

EU connector

6GT2 898-0AA00

UK connector

6GT2 898-0AA10

US connector

6GT2 898-0AA20

cable for 24 V

5 m = 6GT2 891-0PH50
+
50 cm = 6GF3500-8BA11
5 m = 6GF3500-8BA12

Options

DO

Wires included in
power supply cable
„Open wires“

Software

Pat-Genius
6GF3400-0SL03

Micro SD Card

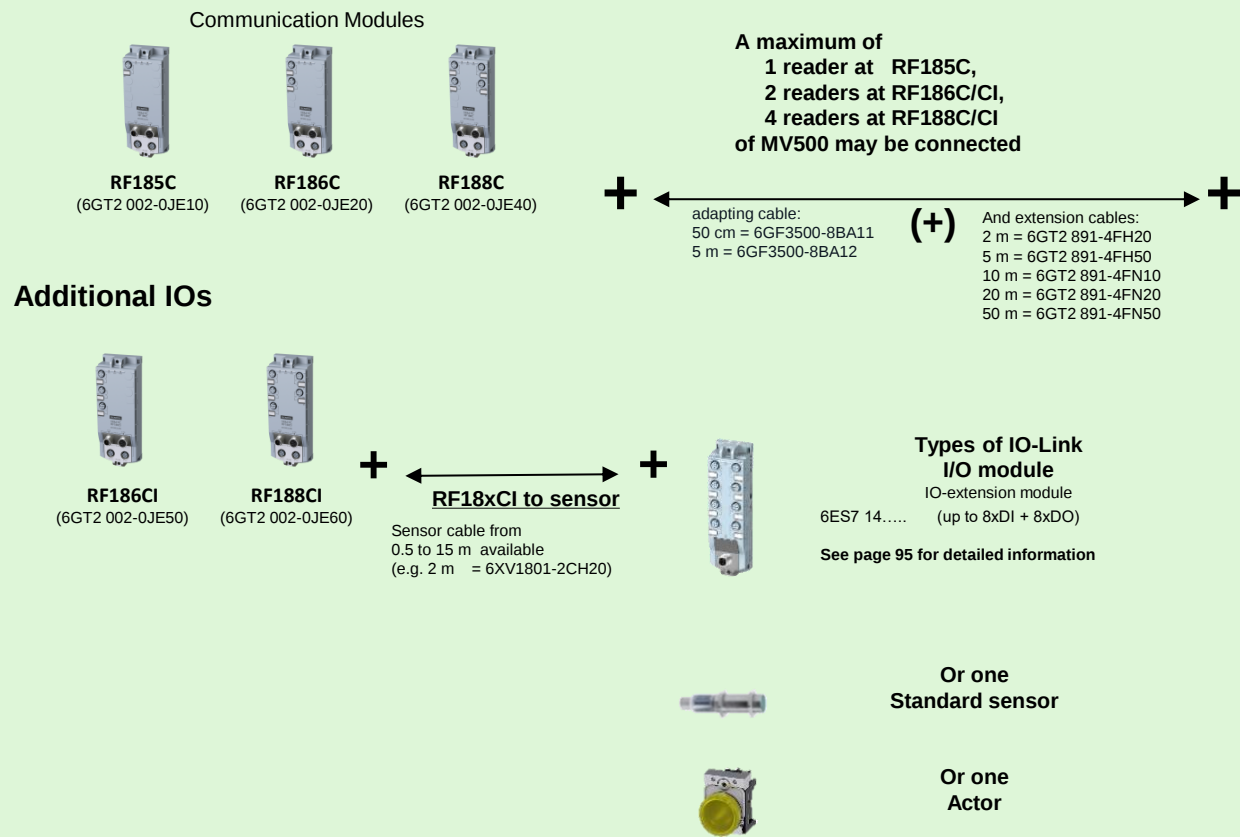
for Configuration
Backup; 4GB
6GK6000-8HT01-0SA2

Support

Mounting plate
6GF3440-8CA
Tri-plate
6GF9002-7AD

MV500
System Interfaces

PROFINET & Ethernet/IP & OPC UA & TCP/IP



Reader

Powered through connection cable



MV540

S; 800 x 600 pixel:
(6GF3540-0CD10)
H; 1280 x 1024 pixel:
(6GF3540-0GE10)

MV550

S; 800 x 600 pixel:
(6GF3550-0CD10)
H; 1280 x 1024 pixel:
(6GF3550-0GE10)

MV560

U; 1920 x 1200 pixel:
(6GF3560-0LE10)
X; 2592 x 2048 pixel:
(6GF3560-0HE10)



Manual focus lens

6 mm: 6GF9001-1BB01 ³⁾
8.5 mm: 6GF9001-1BE01 ^{sh) 1)}
12 mm: 6GF9001-1BL01 ^{sh)}
12 mm: 6GF3560-8EA01-0FF0 ^{ux) 1)}
16 mm: 6GF9001-1BF01 ⁴⁾
16 mm: 6GF3560-8EA02-0FF0 ^{sh)}
25 mm: 6GF9001-1BG01 ^{ux) 1)}
25 mm: 6GF3560-8EA03-0FF0 ⁴⁾
35 mm: 6GF9001-1BH01 ^{sh)}
50 mm: 6GF9001-1BJ01 ^{ux) 1)}
75 mm: 6GF9001-1BK01 ^{shux) 2)}



E-Focus lens

12 mm: 6GF3540-8EA01-0LL0 ^{sh)}
16 mm: 6GF3540-8EA02-0LL0 ^{shu)}
25 mm: 6GF3540-8EA03-0LL0 ^{shux)}
35 mm: 6GF3540-8EA04-0LL0 ^{shux)}
50 mm: 6GF3540-8EA05-0LL0 ^{shux) 2)}



Lights build-in

red basic: 6GF3540-8DA11
red far: 6GF3540-8DA12
red multi: 6GF3540-8DA13
white multi: 6GF3540-8DA33
infrared basic: 6GF3540-8DA41
infrared far: 6GF3540-8DA42



Lights external

Red: 6GF3400-0LT01-8DA1
Infrared: 6GF3400-0LT01-7BA1
+
adapter M12/M12
(6GF3500-8BD10)
+
Mounting plate
(6GF3440-8CD01)

¹⁾ not in combination with build-in lights;
²⁾ use long version of protective lens cover always and only with 6GF9001-1BK01 and 6GF3540-8EA05-0LL0
⁴⁾ No usage of option „Micro SD Card“ with these lens
^{shux)} indicates the types of camera which are allowed for usage;
i.e. ⁴⁾ means MV5x0U is allowed

Options

Software

Veri-Genius
6GF3400-0SL02
Pat-Genius
6GF3400-0SL03

Micro SD Card

for Configuration
Backup; 4GB
6GK6000-8HT01-0SA2

Support

Mounting plate
6GF3440-8CA
Tri-plate
6GF9002-7AD

Opt. for Lens;
Rings

0.5, 1, 5, 10, 20, 40 mm
6GF9001-1BU

0.5, 1 mm
6GF9001-1BU01

length doubler
6GF9001-1BV

Protective lens
cover

Basic length glas
no filter 6GF3540-8AC11
red 6GF3540-8AC51
infrared 6GF3540-8AC41
IRUVcut 6GF3540-8AC31

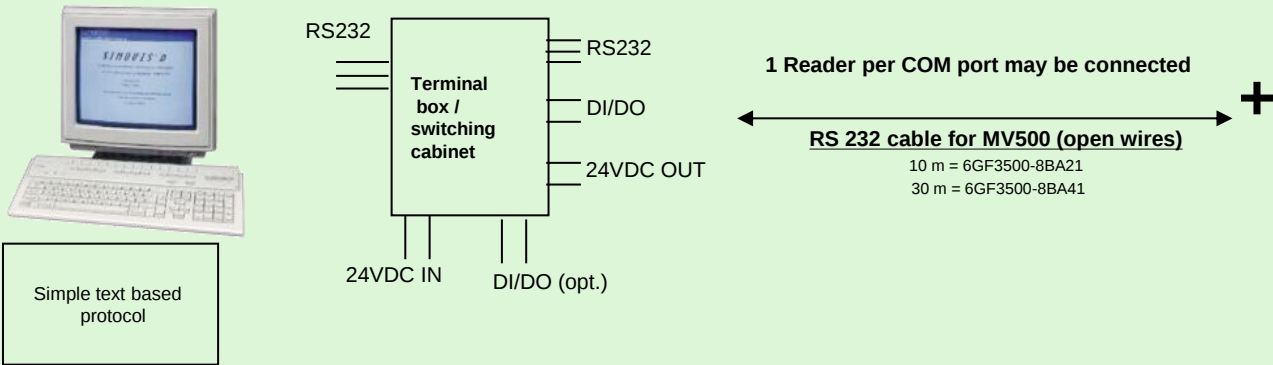
Long version glas ²⁾
no filter 6GF3540-8AC12
red 6GF3540-8AC52
infrared 6GF3540-8AC42
IRUVcut 6GF3540-8AC32

Basic length PMMA
6GF3540-8AC21

Long version PMMA ²⁾
6GF3540-8AC22

MV500
System Interfaces

Serial RS232



Reader

With external power supply



MV530
S; 800 x 600 pixel:
(6GF3530-0CD10)
H; 1280 x 1024 pixel:
(6GF3530-0GE10)

Cable for power supply

Open wires
10 m = 6GF3500-8BA21
10 m UL = 6GF3500-8BA23
30 m = 6GF3500-8BA41
30 m UL = 6GF3500-8BA43

or

Power supply

EU connector
6GT2 898-0AA00

UK connector
6GT2 898-0AA10

US connector
6GT2 898-0AA20

cable for 24 V
5 m = 6GT2 891-0PH50
+
50 cm = 6GF3500-8BA11
5 m = 6GF3500-8BA12

Options

DO

Wires included in power supply cable „Open wires“

Software

Pat-Genius
6GF3400-0SL03

Micro SD Card

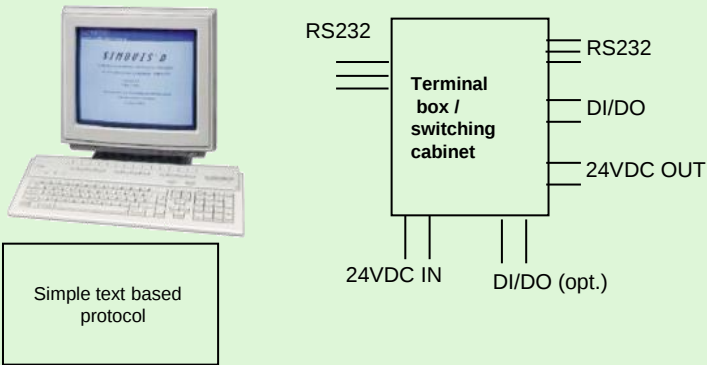
for Configuration
Backup; 4GB
6GK6000-8HT01-0SA2

Support

Mounting plate
6GF3440-8CA
Tri-plate
6GF9002-7AD

MV500
System Interfaces

Serial RS232



1 Reader per COM port may be connected

RS 232 cable for MV500 (open wires)

10 m = 6GF3500-8BA21

30 m = 6GF3500-8BA41



MV540

S; 800 x 600 pixel:
(6GF3540-0CD10)
H; 1280 x 1024 pixel:
(6GF3540-0GE10)

MV550

S; 800 x 600 pixel:
(6GF3550-0CD10)
H; 1280 x 1024 pixel:
(6GF3550-0GE10)

MV560

U; 1920 x 1200 pixel:
(6GF3560-0LE10)
X; 2592 x 2048 pixel:
(6GF3560-0HE10)

¹⁾ not in combination with build-in lights;
²⁾ use long version of protective lens cover always and only with 6GF9001-1BK01 and 6GF3540-8EA05-0LL0
⁴⁾ No usage of option „Micro SD Card“ with these lens
^{shux} indicates the types of camera which are allowed for usage; i.e. ⁴⁾ means MV5x0U is allowed

Reader

With external power supply



Manual focus lens

6 mm: 6GF9001-1BB01 ³⁾
8.5 mm: 6GF9001-1BE01 ^{sh) 1)}
12 mm: 6GF9001-1BL01 ^{sh)}
12 mm: 6GF3560-8EA01-0FF0 ^{ux) 1)}
16 mm: 6GF9001-1BF01 ⁴⁾
16 mm: 6GF3560-8EA02-0FF0 ^{sh)}
25 mm: 6GF9001-1BG01 ^{ux) 1)}
25 mm: 6GF3560-8EA03-0FF0 ⁴⁾
35 mm: 6GF9001-1BH01 ^{sh)}
50 mm: 6GF9001-1BJ01 ^{ux) 1)}
75 mm: 6GF9001-1BK01 ^{shux) 2)}



E-Focus lens

12 mm: 6GF3540-8EA01-0LL0 ^{sh)}
16 mm: 6GF3540-8EA02-0LL0 ^{shu)}
25 mm: 6GF3540-8EA03-0LL0 ^{shux)}
35 mm: 6GF3540-8EA04-0LL0 ^{shux)}
50 mm: 6GF3540-8EA05-0LL0 ^{shux) 2)}



Lights build-in

red basic: 6GF3540-8DA11
red far: 6GF3540-8DA12
red multi: 6GF3540-8DA13
white multi: 6GF3540-8DA33
infrared basic: 6GF3540-8DA41
infrared far: 6GF3540-8DA42



Lights external: ring

Red: 6GF3400-0LT01-8DA1
Infrared: 6GF3400-0LT01-7BA1



adapter M12/M12: 6GF3500-8BD10
mounting plate: 6GF3440-8CD01



Lights external: panel

20x20 cm: 6GF3500-8DF30-1DA0
30x20 cm: 6GF3500-8DF30-2DA0
40x30 cm: 6GF3500-8DF30-3DA0



Mounting aid
6GF3500-8CD

Options

DO

Wires included in power supply cable „Open wires“

Software

Veri-Genius
6GF3400-0SL02
Pat-Genius
6GF3400-0SL03

Micro SD Card

for Configuration Backup; 4GB
6GF6000-8HT01-0SA2

Support

Mounting plate
6GF3440-8CA
Tri-plate
6GF9002-7AD

Opt. for Lens; Rings

0.5, 1, 5, 10, 20, 40 mm
6GF9001-1BU

0.5, 1 mm

6GF9001-1BU01

length doubler
6GF9001-1BV

Protective lens cover

Basic length glas
no filter 6GF3540-8AC11
red 6GF3540-8AC51
infrared 6GF3540-8AC41
IRUVcut 6GF3540-8AC31

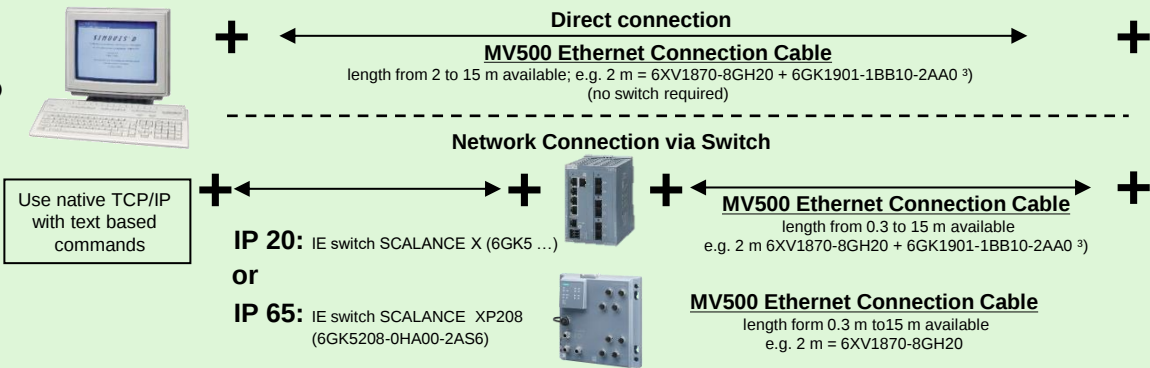
Long version glas ²⁾
no filter 6GF3540-8AC12
red 6GF3540-8AC52
infrared 6GF3540-8AC42
IRUVcut 6GF3540-8AC32

Basic length PMMA
6GF3540-8AC21

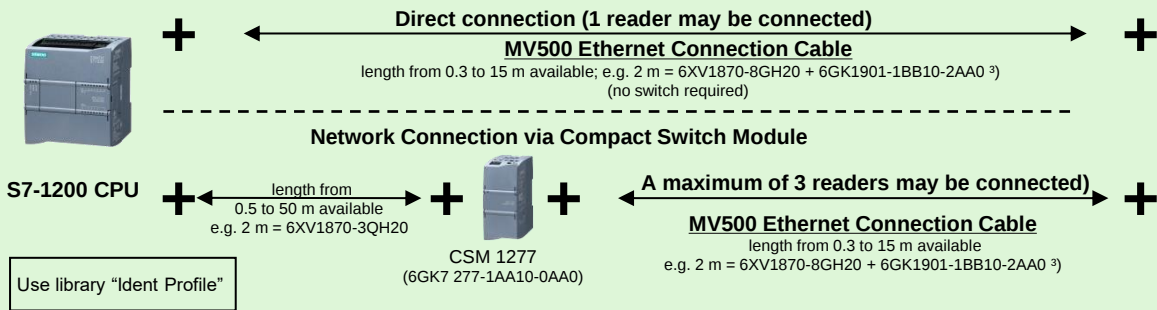
Long version PMMA ²⁾
6GF3540-8AC22

MV500
System Interfaces

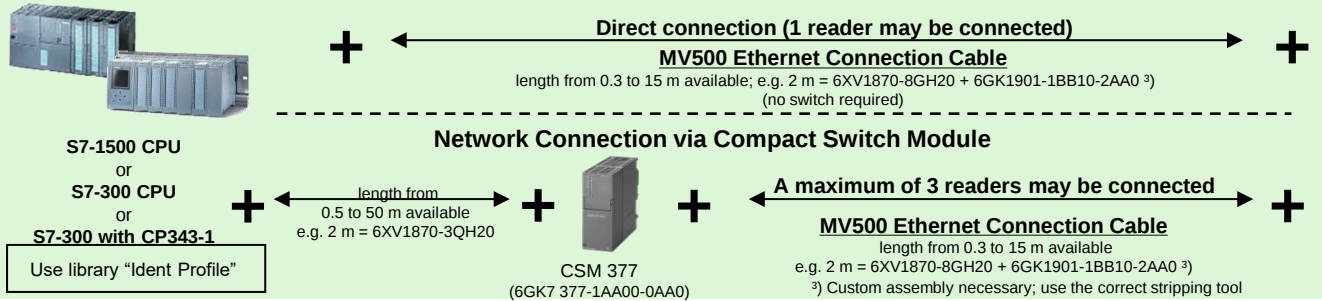
Ethernet TCP/IP



S7-1200 via Industrial Ethernet or PROFINET



S7-300/1500 via Industrial Ethernet or PROFINET



Reader

With external power supply

MV540
S; 800 x 600 pixel:
(6GF3540-0CD10)
H; 1280 x 1024 pixel:
(6GF3540-0GE10)

MV550
S; 800 x 600 pixel:
(6GF3550-0CD10)
H; 1280 x 1024 pixel:
(6GF3550-0GE10)

MV560
U; 1920 x 1200 pixel:
(6GF3560-0LE10)
X; 2592 x 2048 pixel:
(6GF3560-0HE10)

Cable for power supply

Open wires
10 m = 6GF3500-8BA21
10 m UL = 6GF3500-8BA23
30 m = 6GF3500-8BA41
30 m UL = 6GF3500-8BA43

or

Power supply

EU connector
6GT2 898-0AA00

UK connector
6GT2 898-0AA10

US connector
6GT2 898-0AA20

cable for 24 V
5 m = 6GT2 891-0PH50
+
50 cm = 6GF3500-8BA11
5 m = 6GF3500-8BA12

Manual focus lens

6 mm:	6GF9001-1BB01	³⁾
8.5 mm:	6GF9001-1BE01	^{sh)} ¹⁾
12 mm:	6GF9001-1BL01	^{sh)}
12 mm:	6GF3560-8EA01-0FF0	^{ux)} ¹⁾
16 mm:	6GF9001-1BF01	⁴⁾
16 mm:	6GF3560-8EA02-0FF0	^{sh)}
25 mm:	6GF9001-1BG01	^{ux)} ¹⁾
25 mm:	6GF3560-8EA03-0FF0	⁴⁾
35 mm:	6GF9001-1BH01	^{sh)}
50 mm:	6GF9001-1BJ01	^{ux)} ¹⁾
75 mm:	6GF9001-1BK01	^{shux)} ²⁾

E-Focus lens

12 mm:	6GF3540-8EA01-0LL0	^{sh)}
16 mm:	6GF3540-8EA02-0LL0	^{sh)}
25 mm:	6GF3540-8EA03-0LL0	^{shux)}
35 mm:	6GF3540-8EA04-0LL0	^{shux)}
50 mm:	6GF3540-8EA05-0LL0	^{shux)} ²⁾

Lights build-in

red basic:	6GF3540-8DA11
red far:	6GF3540-8DA12
red multi:	6GF3540-8DA13
white multi:	6GF3540-8DA33
infrared basic:	6GF3540-8DA41
infrared far:	6GF3540-8DA42

Lights external: ring

Red: 6GF3400-0LT01-8DA1
Infrared: 6GF3400-0LT01-7BA1

+
adapter M12/M12: 6GF3500-8BD10
mounting plate: 6GF3440-8CD01

Lights external: panel

20x20 cm:	6GF3500-8DF30-1DA0
30x20 cm:	6GF3500-8DF30-2DA0
40x30 cm:	6GF3500-8DF30-3DA0

+
Mounting aid
6GF3500-8CD

¹⁾ not in combination with build-in lights;
²⁾ use long version of protective lens cover always and only with 6GF9001-1BK01 and 6GF3540-8EA05-0LL0
⁴⁾ No usage of option „Micro SD Card“ with these lens
^{shux)} indicates the types of camera which are allowed for usage; i.e. ⁴⁾ means MV5x0U is allowed

Options
DO

Wires included in power supply cable „Open wires“

Software

Veri-Genius
6GF3400-0SL02
Pat-Genius
6GF3400-0SL03

Micro SD Card

for Configuration
Backup; 4GB
6GK6000-8HT01-0SA2

Support

Mounting plate
6GF3440-8CA
Tri-plate
6GF9002-7AD

Opt. for Lens;
Rings

0.5, 1, 5, 10, 20, 40 mm
6GF9001-1BU

0.5, 1 mm
6GF9001-1BU01

length doubler
6GF9001-1BV

Protective lens
cover

Basic length glas
no filter 6GF3540-8AC11
red 6GF3540-8AC51
infrared 6GF3540-8AC41
IRUVcut 6GF3540-8AC31

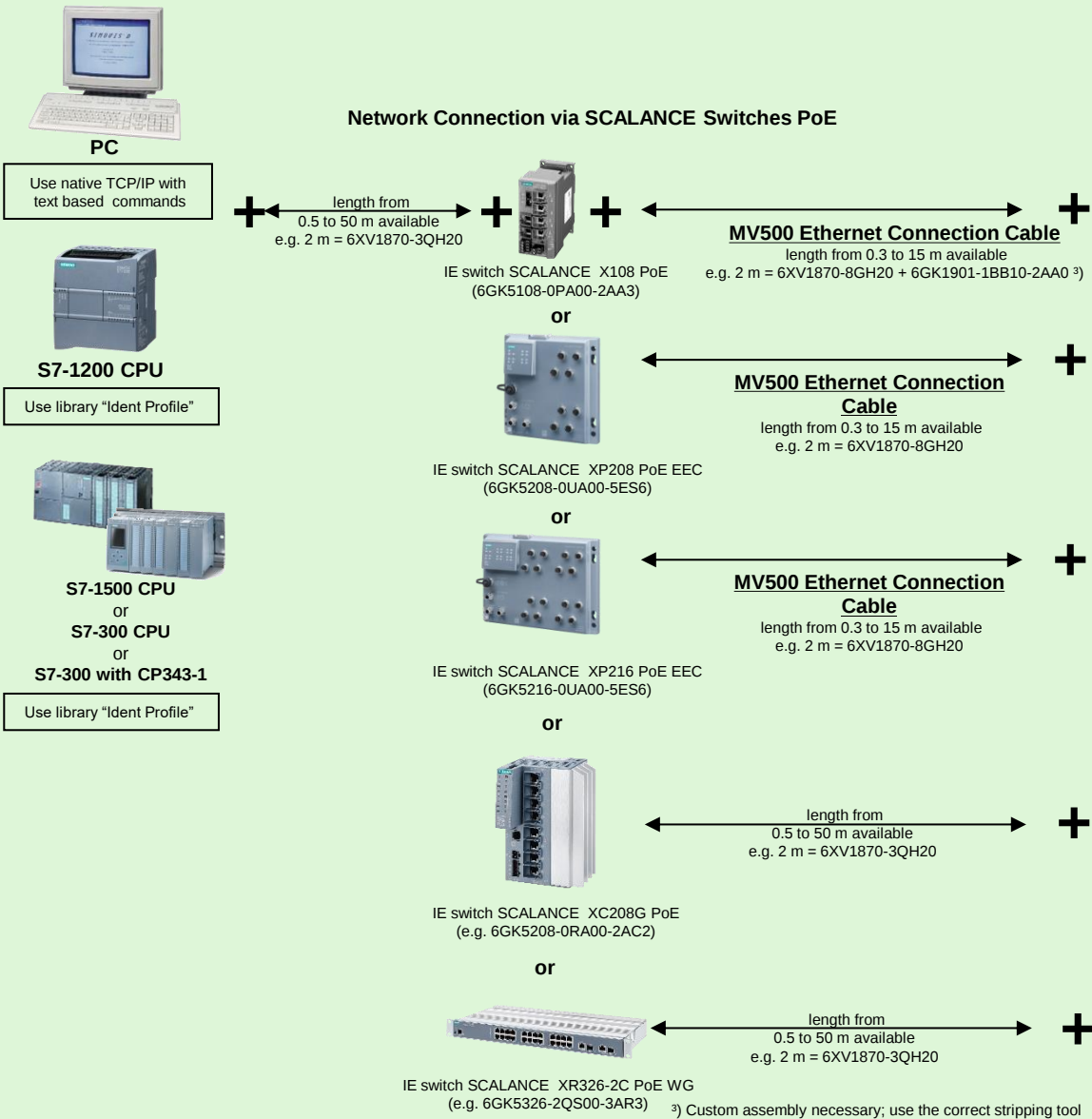
Long version glas ²⁾
no filter 6GF3540-8AC12
red 6GF3540-8AC52
infrared 6GF3540-8AC42
IRUVcut 6GF3540-8AC32

Basic length PMMA
6GF3540-8AC21

Long version PMMA ²⁾
6GF3540-8AC22

MV500
System Interfaces

Ethernet
TCP/IP or
PROFINET
(PoE):
100MB



Reader

With external power supply



MV530

S; 800 x 600 pixel:
(6GF3530-0CD10)
H; 1280 x 1024 pixel:
(6GF3530-0GE10)

Cable for power supply

Open wires

10 m = 6GF3500-8BA21
10 m UL = 6GF3500-8BA23
30 m = 6GF3500-8BA41
30 m UL = 6GF3500-8BA43

or

Power supply

EU connector

6GT2 898-0AA00

UK connector

6GT2 898-0AA10

US connector

6GT2 898-0AA20

cable for 24 V

5 m = 6GT2 891-0PH50

+

50 cm = 6GF3500-8BA11

5 m = 6GF3500-8BA12

Options

DO

Wires included in
power supply cable
„Open wires“

Software

Pat-Genius
6GF3400-0SL03

Micro SD Card

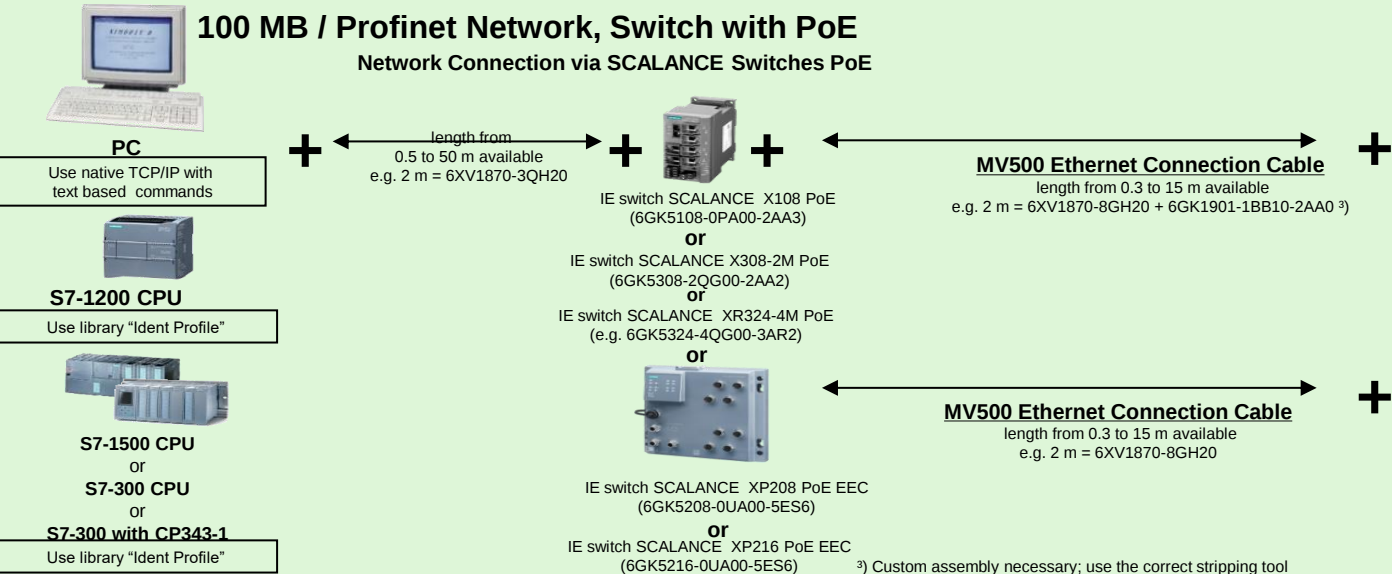
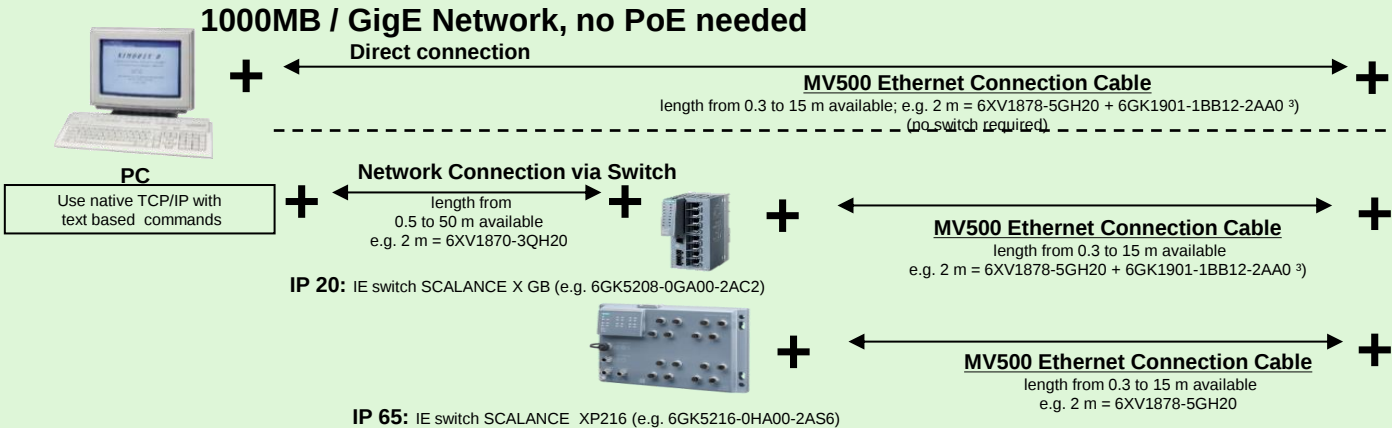
for Configuration
Backup; 4GB
6GK6000-8HT01-0SA2

Support

Mounting plate
6GF3440-8CA
Tri-plate
6GF9002-7AD

MV500
System Interfaces

Two parallel Networks on one Device: 1000MB + 100MB



Reader

With power supply over Ethernet (PoE)

MV550
S; 800 x 600 pixel:
(6GF3550-0CD10)
H; 1280 x 1024 pixel:
(6GF3550-0GE10)

MV560
U; 1920 x 1200 pixel:
(6GF3560-0LE10)
X; 2592 x 2048 pixel:
(6GF3560-0HE10)

Manual focus lens

6 mm:	6GF9001-1BB01	s)
8.5 mm:	6GF9001-1BE01	sh)
12 mm:	6GF9001-1BL01	sh)
12 mm:	6GF3560-8EA01-0FF0	ux) 1)
16 mm:	6GF9001-1BF01	4)
16 mm:	6GF3560-8EA02-0FF0	shux)
25 mm:	6GF9001-1BG01	ux) 1)
25 mm:	6GF3560-8EA03-0FF0	4)
35 mm:	6GF9001-1BH01	sh)
50 mm:	6GF9001-1BJ01	ux) 1)
75 mm:	6GF9001-1BK01	shux) 2)

E-Focus lens

12 mm:	6GF3540-8EA01-0LL0	sh)
16 mm:	6GF3540-8EA02-0LL0	shux)
25 mm:	6GF3540-8EA03-0LL0	shux)
35 mm:	6GF3540-8EA04-0LL0	shux)
50 mm:	6GF3540-8EA05-0LL0	shux) 2)

Lights build-in

red basic:	6GF3540-8DA11
red far:	6GF3540-8DA12
red multi:	6GF3540-8DA13
white multi:	6GF3540-8DA33
infrared basic:	6GF3540-8DA41
infrared far:	6GF3540-8DA42

¹⁾ not in combination with build-in lights;
²⁾ use long version of protective lens cover always and only with 6GF9001-1BK01 and 6GF3540-8EA05-0LL0
⁴⁾ No usage of option „Micro SD Card“ with these lens
^{shux)} indicates the types of camera which are allowed for usage;
i.e. ^{u)} means MV5x0U is allowed

Options

DO

Additional cable for DO-supply is needed

10 m = 6GF3500-8BA21
30 m = 6GF3500-8BA41

Software

Veri-Genius
6GF3400-0SL02
Pat-Genius
6GF3400-0SL03

Micro SD Card

for Configuration Backup; 4GB
6GK6000-8HT01-0SA2

Support

Mounting plate
6GF3440-8CA
Tri-plate
6GF9002-7AD

Opt. for Lens; Rings

0.5, 1, 5, 10, 20, 40 mm
6GF9001-1BU

0.5, 1 mm
6GF9001-1BU01

length doubler
6GF9001-1BV

Protective lens cover

Basic length glas

no filter 6GF3540-8AC11
red 6GF3540-8AC51
infrared 6GF3540-8AC41
IRUVcut 6GF3540-8AC31

Long version glas ²⁾

no filter 6GF3540-8AC12
red 6GF3540-8AC52
infrared 6GF3540-8AC42
IRUVcut 6GF3540-8AC32

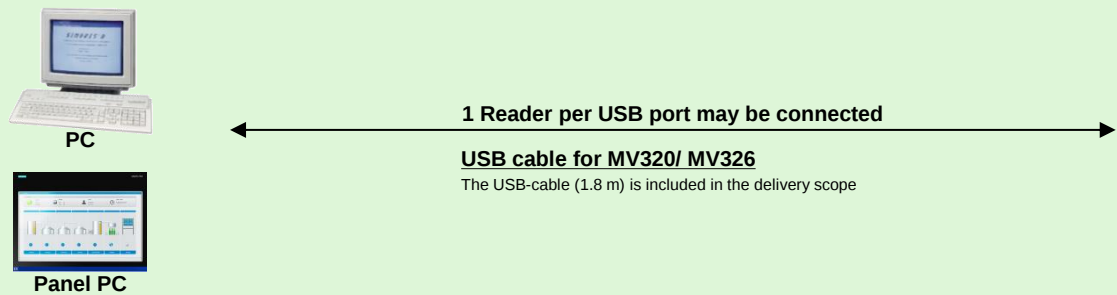
Basic length PMMA
6GF3540-8AC21

Long version PMMA ²⁾
6GF3540-8AC22

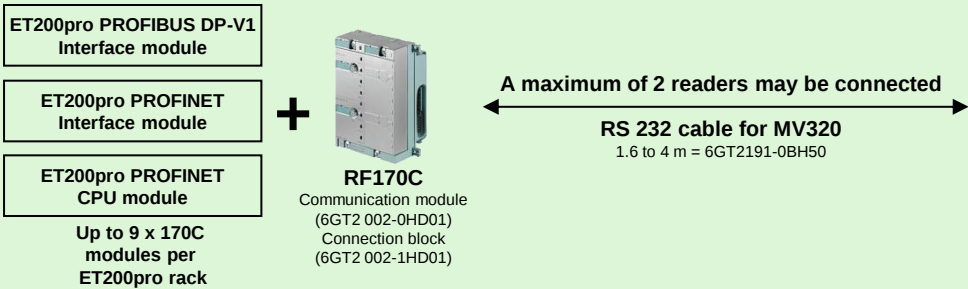
MV300 System Interfaces

MV320, MV326
System Interfaces

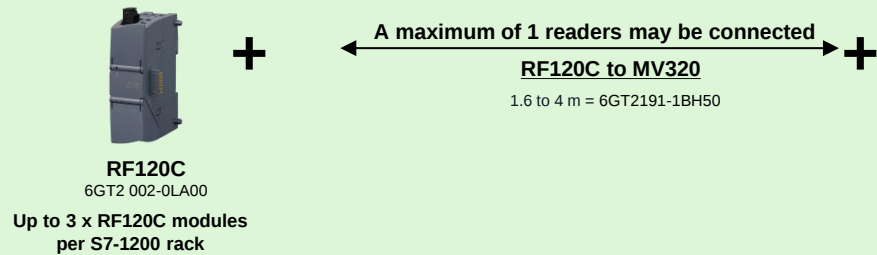
PC via USB



RF170C
ET200pro
via PROFIBUS
or PROFINET
or S7 PLC



SIMATIC PLC
S7-1200



Reader

Powered through USB-cable



Reader

Powered through connection cable



Options

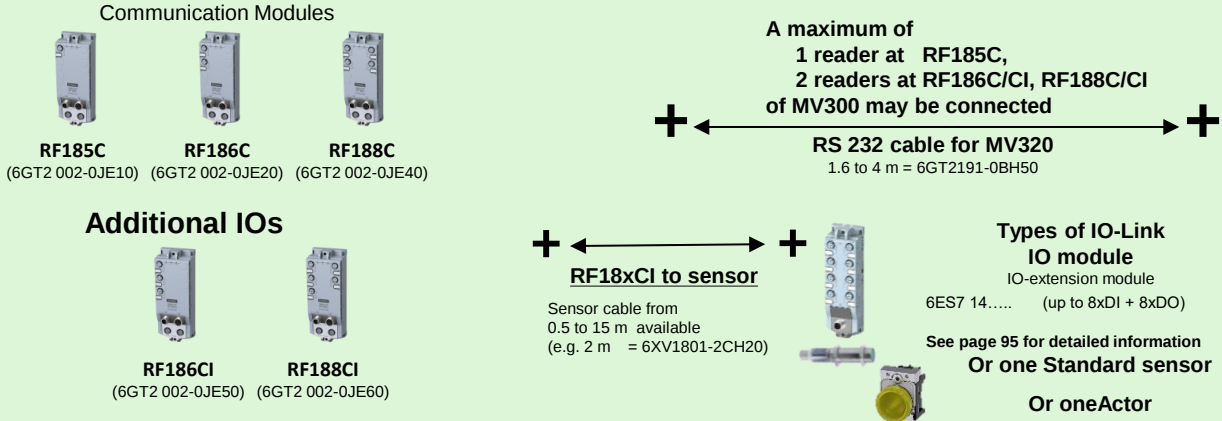


Metal stand for MV320 (6GF3320-0AC07)

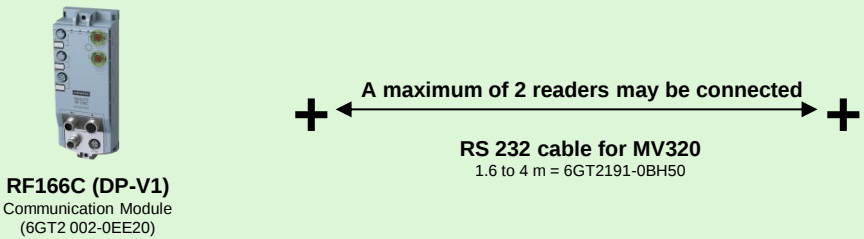
* planned

MV320, MV326 System Interfaces

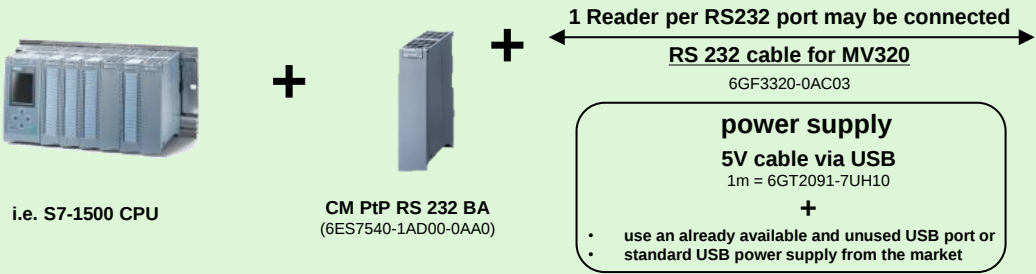
PROFINET & Ethernet/IP



PROFIBUS



RS232 For SIMATIC and other PLC



Reader

Powered through connection cable



MV320
(6GF3320-0HT01)

Options



Metal stand for
MV320
(6GF3320-0AC07)

Reader

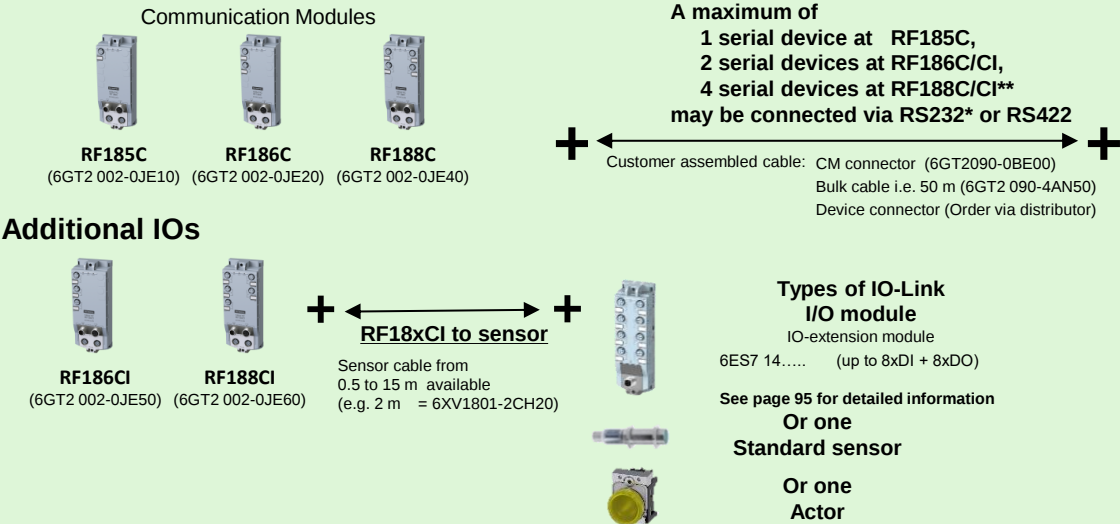
With external power supply



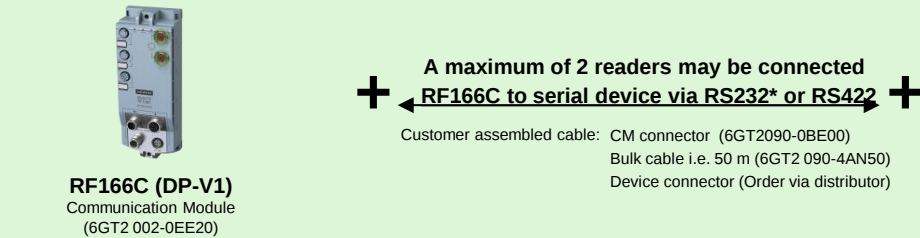
MV320
(6GF3320-0HT01)

Interfaces for general purpose serial devices (RS232 or RS422)
System Interfaces

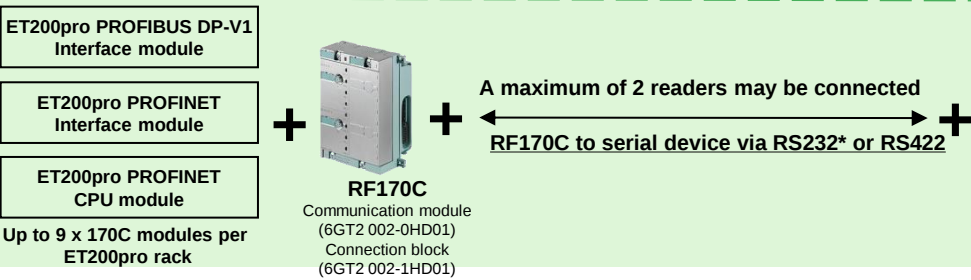
PROFINET & Ethernet/IP



PROFIBUS



RF170C
ET200pro
via PROFIBUS
or PROFINET
or S7 PLC



Serial device

powered through connection cable

Provided power from CM:

24 Volt
up to 800 mA for each device
5 Volt * (only when RS232 is used)
up to 500 mA for each device

Examples of devices:



i.e. scanners, handheld devices

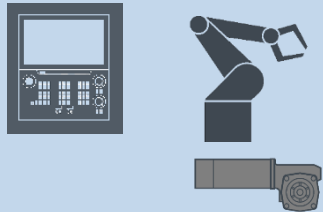
Serial device

powered with external power supply

Provided power:

Always customer
specific power supply

Examples of devices:



i.e. robots, motors, tooling machines

Options

Always refer to
the manual of
the connected
device

Cabling:

Use a bulk cable (i.e. 6GT2090-4AN50) and assemble left side the CM connector 6GT2090-0BE00
The right side connector you may order via distributor for electronic components

Or

Use the cable delivered by th device, cut the left side connector and replace it with a plug 6GT2090-0BE00

Or (only RS422)

You may use one of the standard reader cable 6GT2891-4F, cut and replace the connector on the right side (device side)

Bill of Materials Guides

RF18xC /CI Bill of Materials Guide



The RF18xC is a communication module that can connect to Ethernet-based networks via an M12 d-coded connector. It supports a variety of protocols like PROFINET, Ethernet/IP, OPC UA, TCP/IP. A integrated switch enables star and line topologies. The module has L-coded M12 connectors for the 24 V power supply. The power can be transferred to additional loads at a second L-coded female connector. The L-coded connectors can transmit a continuous current of up to 16 A.

The designer chooses whether to purchase pre-made network cables or to make his/her own. Note that no Termination Resistors are required on end-nodes, but covering caps are highly recommended.

Description	Part Number	Notes
RF185C RF186C RF188C RF186CI RF188CI	6GT2 002-0JE10 6GT2 002-0JE20 6GT2 002-0JE40 6GT2 002-0JE50 6GT2 002-0JE60	1 read/write device or reader 2 read/write devices or readers 4 read/write devices or readers 2 read/write devices or readers plus sensors 4 read/write devices or readers plus sensors can be connected to PROFINET or Ethernet (OPC UA)
Make your own M12 PROFINET connection cables		
SIMATIC NET Ethernet M12 4-pin connector	6GK1 901-0DB10-6AA0	Ethernet to CM. 2 x M12 4-pin connectors needed if loop-through
RJ45 connector with metal casing and FC connection system, 180° cable outlet	6GK1 901-1BB10-2AA0	For connection into standard RJ45-type Ethernet switch
ETHERNET industrial cable 2x2, Type A, unassembled	6XV1 840-2AH10	Sold by the meter Minimum length 20 m; Maximum length 1000 m
Use pre-made M12 PROFINET connection cables		
Pre-assembled PROFINET cable with 4-pin M12 on both ends	6XV1 870-8Axxx* 6XV1 870-8Gxxx*	...8A = 180° , ...8G = 90° 0.3 m– 15 m pre-assembled cable
Pre-assembled PROFINET cable with 4-pin M12 / RJ45	6XV1871-5Txxx*	0.3 m– 15 m pre-assembled cable RJ45 for switch / PC / controller
Make your own M12 L-coded power supply connection cables		
Power cable (4 wire x 1.5 mm ² , trailing type)	6XV1801-2B	For the supply of the 24 VDC power, from 20m up to 1000m
M12 L-coded – male connector	6GK1906-0EA00	For the loop-through of the 24 VDC power, screw joint for wires up to 1.5 mm ²
M12 L-coded – female connector	6GK1906-0EB00	For the supply side of 24 VDC power, screw joint for wires up to 1.5 mm ²
Use pre-made M12 L-coded power supply connection cables		
Cable for supply voltage with pre-Assembled M12 L-coded connectors 180°	6XV1801-6Dxxx*	Lengths available from 0.5 m up to 15 m
Cable for supply voltage with pre-Assembled M12 L-coded connectors 90°	6XV1801-6Gxxx*	Lengths available from 0.5 m up to 15 m
Cable for supply voltage assembled with M12 A-coded 4pin male connector and M12 L-coded connector female at CM side	6GT2091-0PH50	Length 5 m Useful to connect the CM directly to a power supply of type 6GT2898-0ACx0

* These cables are available in various lengths (see catalogue or mail)

Bus Topology Concept		
Description	Part Number	Notes
Make your own RF18xC to RF reader cables		
Refer to the Bulk cable and connectors tables (Pages 92 - 93)		
Use pre-made RF18xC to RF reader cables		
Reader cable R200/ RF300/ MV440 or Extension cable for RF200/ RF300/ MV400 /MV500	6GT2 891-4FH20	2 meter pre-assembled cable
	6GT2 891-4FH50	5 meter pre-assembled cable
	6GT2 891-4FN10	10 meter pre-assembled cable
	6GT2 891-4FN20	20 meter pre-assembled cable
	6GT2 891-4FN50	50 meter pre-assembled cable
Reader cable to RF1000	6GT2891-4UH20	2 meter pre-assembled cable
Reader cable to MV320	6GT2191-0BH50	5 meter pre-assembled coiled cable with a usable length between 1.6 and 4 meter
Reader cable MV420	6GF3420-0AC00-2CB0	2 meter pre-assembled cable
Reader cable MV500	6GF3500-8BA11	0.5 meter pre-assembled cable
	6GF3500-8BA12	5 meter pre-assembled cable
Additional components		
Covering caps for unused M12 ports	3RX9 802-0AA00	1 pack = 10 items
Labels 10 x 5 mm for CM channel marking	6ES7194-2BA00-0AA0	For additional marking. Per default labels are included in CM package
Make your own M12 sensor cable (only RF18xC/CI variants)		
M12 A-coded – male connector, 4 pin	6GK1 907-0DB10-6AA3	Sensor Connector at CM-side for cable diameter 6 – 8 mm
M12 A-coded – female connector, 4 pin	6GK1 907-0DC10-6AA3	Sensor-side connector for cable diameter 6 – 8 mm
Sensor cable five wire	6XV1801-2C	bulk cable; minimum order 20 meter
M12 A-coded – male connector, 5 pin, 180°	6GK1 908-0DB10-6AA0	Sensor connector at CM-side Required for assembling an IO-Link port Class B cable
M12 A-coded – female connector, 5 pin, 180°	6GK1 908-0DC10-6AA0	Sensor connector at sensor-side
Use pre-made M12 sensor cable (only RF18xC/CI variants)		
IO-Link (port Class B) sensor cable with M12 A-coded 5-pin connectors (male and female)	6XV1801-2Cxxx*	Lengths available from 0.5 m up to 15 m

RF18xCI & RF69xR - Bill of Materials Guide, Sensor Cabling

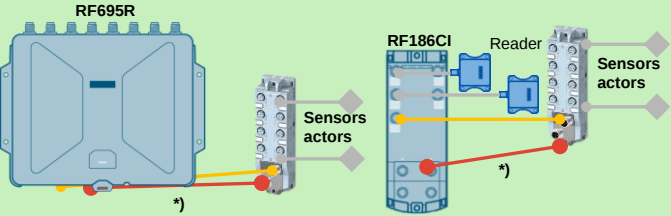


The RF18xCI variants allow the connecting of a variety of IO-Link I/O modules. A maximum of 8 sensors (inputs) and 8 actors (outputs) may be connected to one CM. There is no additional configuration necessary for the I/Os. The I/Os can be used with all available protocols: PROFINET, Ethernet/IP, OPC UA and TCP/IP. Read this page for connecting details.

The designer chooses whether to purchase pre-made sensor cable or to make his/her own (see page before)

Description	Part Number	Notes
RF186CI RF188CI	6GT2 002-0JE50 6GT2 002-0JE60	2 read/write devices or readers plus sensors 4 read/write devices or readers plus sensors can be connected to PROFINET or Ethernet (OPC UA)

Bus Topology Concept



Sensor/actor cabling



**RF18xCI to IO-Link
I/O module or
sensor, actor**

- 0.5 m = 6XV1801-2CE50
- 1 m = 6XV1801-2CH10
- 1.5 m = 6XV1801-2CH15
- 2 m = 6XV1801-2CH20
- 3 m = 6XV1801-2CH30
- 5 m = 6XV1801-2CH50
- 10 m = 6XV1801-2CN10
- 15 m = 6XV1801-2CN15



**RF69xR
(1 to 8 ext. antennas)**
6GT2 811-7DD20-xAA0
6GT2 811-7AD20-xAA0

**RF69xR to IO-Link
I/O module or
sensor, actor **)**

- 0.5 m = 6XV1801-2CE50
- 1 m = 6XV1801-2CH10
- 1.5 m = 6XV1801-2CH15
- 2 m = 6XV1801-2CH20
- 3 m = 6XV1801-2CH30
- 5 m = 6XV1801-2CH50
- 10 m = 6XV1801-2CN10
- 15 m = 6XV1801-2CN15



I/O modules with M8 sensor connectors

- 6ES7 141-5BF00-0BL0 (8xDI)
- 6ES7 143-5BF00-0BL0 (4xDI + 4xDO)

I/O module to sensor

Use sensor cables from the sensor market



I/O modules with M12 sensor connectors

- 6ES7 141-5AH00-0BL0 (8xDI)
- 6ES7 143-5AH00-0BL0 (8xDI + 8xDO)
- 6ES7 142-5AF00-0BL0 (8xDO, 2A)
- 6ES7 143-5AH00-0BA0 (16xDI/Q)
- Extra M12 L-coded power cable needed *)

I/O module to sensor

- 0.5 m = 6XV1801-2CE50
- 1 m = 6XV1801-2CH10
- 1.5 m = 6XV1801-2CH15
- 2 m = 6XV1801-2CH20
- 3 m = 6XV1801-2CH30
- 5 m = 6XV1801-2CH50
- 10 m = 6XV1801-2CN10
- 15 m = 6XV1801-2CN15



I/O modules with integrated sensor/actor

- 8WD4428-0BF (SIRIUS Signaling column)
- For detailed configuration read manual: <https://support.industry.siemens.com/cs/ww/en/view/109758131>
- 3SU1400.... (Pushbuttons and indicator lights from SIRIUS ACT)
- 3SU1400-1HL10-6AA0 (6xDI + 2xDO)
- 3SU1400-2HL10-6AA0 (6xDI + 2xDO)
- 3SU1400-2HK10-6AA0 (6xDI + 2xDO)
- 3SU1400-2HM10-6AA0 (4xDI + 4xDO)
- 3SU1400-2HN10-6AA0 (2xDI + 6xDO)
- For detailed configuration read manual: <https://support.industry.siemens.com/cs/ww/en/view/107542462>



One standard sensor

Or one actor, lamp

*) Some IO modules for high output current need an extra L-coded power cable
6XV1801-6Dxxx from 0.5 to 15 m
**) RF69xR need to cut cables on one side to connect

RF166C Bill of Materials Guide

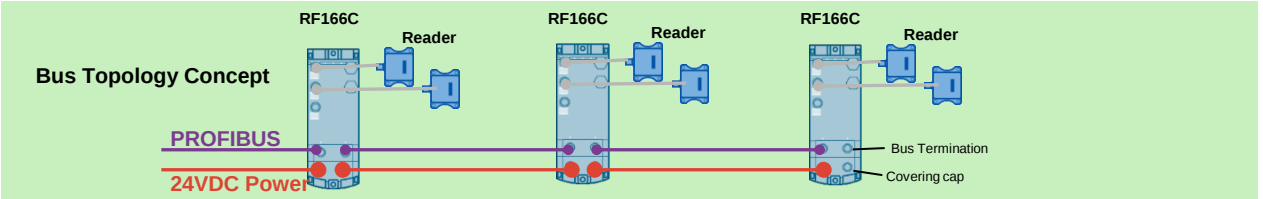


The RF166C is a PROFIBUS DP-V1 interface module. The PROFIBUS connection is made via M12 B-coded connector. The module has L-coded M12 connectors for the 24 V power supply. The power can be transferred to additional loads at a second L-coded female connector. The L-coded connectors can transmit a continuous current of up to 16 A.

The designer chooses whether to purchase pre-made network cables or to make his/her own. Note that another design consideration is whether the RF166C is a PROFIBUS end-node or not. If it is an end-node, a Termination Resistor is required.

Description0	Part Number	Notes
RF166C	6GT2 002-0EE20	For PROFIBUS DP-V1 networks. 2 read/write devices or readers can be connected The devices may have RS422 or RS232 interface
Make your own M12 PROFIBUS connection cables		
PROFIBUS M12 connector plug (5 per pack) with socket insert	6GK1 905-0EB00	For the supply side of the PROFIBUS network. Use Termination Resistor on the 2nd M12 port if RF166C is an end node
PROFIBUS M12 connector plug (5 per pack) with pin insert	6GK1 905-0EA00	For loop-through side of the PROFIBUS network. Both ports are used. No Termination Resistor needed for that RF166C
POFIBUS standard non-assembled cable	6XV1 830-0EH10	Sold by the meter Minimum length 20 m Maximum length 10000 m
M12 Termination Resistor for PROFIBUS (5 per pack)	6GK1 905-0EC00	Required if RF166C is an end-node
Use pre-made M12 PROFIBUS connection cables		
PROFIBUS cable with assembled M12 connectors pre-	6XV1 830-3Dxxx*	See Online Mall (http://mall.automation.siemens.com) Lengths available from 0.5 m up to 15 m
M12 Termination Resistor for PROFIBUS (5 per pack)	6GK1 905-0EC00	Required if RF166C is an end-node
Make your own M12 L-coded power supply connection cables		
Power cable (4 wire x 1.5 mm², trailing type)	6XV1801-2B	For the supply of the 24 VDC power, from 20m up to 1000m
M12 L-coded – male connector	6GK1906-0EA00	For the loop-through of the 24 VDC power, screw joint for wires up to 1.5 mm²
M12 L-coded – female connector	6GK1906-0EB00	For the supply side of 24 VDC power, screw joint for wires up to 1.5 mm²
Use pre-made M12 L-coded power supply connection cables		
Cable for supply voltage with pre-Assembled M12 L-coded connectors 180°	6XV1801-6Dxxx*	Lengths available from 0.5 m up to 15 m
Cable for supply voltage with pre-Assembled M12 L-coded connectors 90°	6XV1801-6Gxxx*	Lengths available from 0.5 m up to 15 m
Cable for supply voltage assembled with M12 A-coded 4pin male connector and M12 L-coded connector female at CM side	6GT2091-0PH50	Length 5 m Useful to connect the CM directly to a power supply of type 6GT2898-0ACx0

* These cables are available in various lengths (see catalogue or mall)



Description	Part Number	Notes
Make your own RF166C to RF reader cables		
Refer to the Bulk cable and connectors tables (Pages 92- 93)		
Use pre-madeRF166C to RF reader cables		
Reader cable R200/ RF300/ RF600 /MV440 or Extension cable for RF200/ RF300/ RF600/ MV400 /MV500	6GT2 891-4FH20	2 meter pre-assembled cable
	6GT2 891-4FH50	5 meter pre-assembled cable
	6GT2 891-4FN10	10 meter pre-assembled cable
	6GT2 891-4FN20	20 meter pre-assembled cable
	6GT2 891-4FN50	50 meter pre-assembled cable
Reader cable to RF1000	6GT2891-4UH20	2 meter pre-assembled cable
Reader cable to MV320	6GT2191-0BH50	5 meter pre-assembled coiled cable with a usable length between 1.6 and 4 meter
Reader cable MV420	6GF3420-0AC00-2CB0	2 meter pre-assembled cable
	6GF3500-8BA11	0.5 meter pre-assembled cable
Reader cable MV500	6GF3500-8BA12	5 meter pre-assembled cable
Additional components		
Covering caps for unused M12 ports	3RX9 802-0AA00	1 pack = 10 items
Labels 10 x 5 mm for CM channel marking	6ES7194-2BA00-0AA0	For additional marking. Per default labels are included in CM package
Make your own M12 Ethernet connection cables (needed for web-based management)		
SIMATIC NET Ethernet M12 4-pin connector	6GK1 901-0DB10-6AA0	Ethernet to RF166C. 2 x M12 4-pin connectors needed if loop-through
RJ45 connector with metal casing and FC connection system, 180° cable outlet	6GK1 901-1BB10-2AA0	For connection into standard RJ45-type Ethernet switch
ETHERNET industrial cable 2x2, Type A, unassembled	6XV1 840-2AH10	Sold by the meter Minimum length 20 m; Maximum length 1000 m
Use pre-made M12 Ethernet connection cables (needed for web-based management)		
Pre-assembled Ethernet cable with 4-pin M12 at RF166C and RJ45 at computer	6XV1871-5Txxx*	2 m– 15 m pre-assembled cable Use this cable type if the wbm of the RF166C is directly connected to a PC
Pre-assembled PROFINET cable with 4-pin M12 on both ends	6XV1 870-8xxx*	0.3 m– 15 m pre-assembled cable Use this cable type if the RF166C is connected to a IP 65 switch



RF360R Bill of Materials Guide

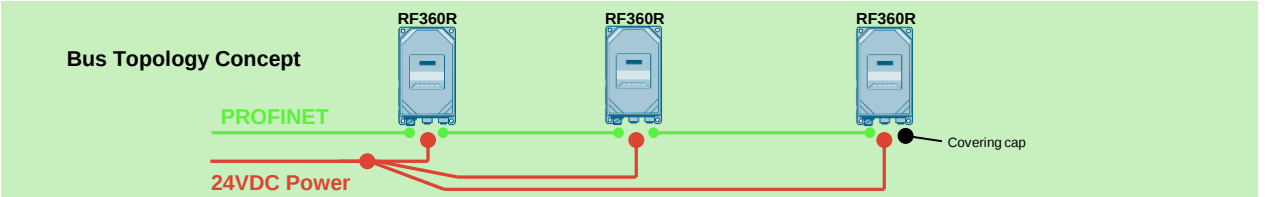


The RF360R is a reader from the RF300 family that can connect to Ethernet-based networks via an M12 d-coded connector. It supports a variety of protocols like PROFINET, Ethernet/IP, OPC UA, TCP/IP. A integrated switch enables star and line topologies. The module has L-coded M12 connectors for the 24 V power supply.

The designer chooses whether to purchase pre-made network cables or to make his/her own. Note that no Termination Resistors are required on end-nodes, but covering caps are highly recommended.

Description	Part Number	Notes
RF360R	6GT2801-5BA30	RF300 Reader with integrated antenna
Make your own M12 PROFINET connection cables		
SIMATIC NET Ethernet M12 4-pin connector	6GK1 901-0DB10-6AA0	Ethernet to reader. 2 x M12 4-pin connectors needed if loop-through
RJ45 connector with metal casing and FC connection system, 180° cable outlet	6GK1 901-1BB10-2AA0	For connection into standard RJ45-type Ethernet switch
ETHERNET industrial cable 2x2, Type A, unassembled	6XV1 840-2AH10	Sold by the meter Minimum length 20 m; Maximum length 1000 m
Use pre-made M12 PROFINET connection cables		
Pre-assembled PROFINET cable with 4-pin M12 on both ends	6XV1 870-8Axxx* 6XV1 870-8Gxxx*	...8A = 180° , ...8G = 90° 0.3 m– 15 m pre-assembled cable
Pre-assembled PROFINET cable with 4-pin M12 / RJ45	6XV1871-STxxx*	0.3 m– 15 m pre-assembled cable RJ45 for switch / PC / controller
Make your own M12 L-coded power supply connection cables		
Power cable (4 wire x 1.5 mm², trailing type)	6XV1801-2B	For the supply of the 24 VDC power, from 20m up to 1000m
M12 L-coded – female connector	6GK1906-0EB00	For the supply side of 24 VDC power, screw joint for wires up to 1.5 mm²
Use pre-made M12 L-coded power supply connection cables		
Cable for supply voltage with pre-Assembled M12 L-coded connectors 180°	6XV1801-6Dxxx*	Lengths available from 0.5 m up to 15 m
Cable for supply voltage with pre-Assembled M12 L-coded connectors 90°	6XV1801-6Gxxx*	Lengths available from 0.5 m up to 15 m
Cable for supply voltage assembled with M12 A-coded 4pin male connector and M12 L-coded connector female at CM side	6GT2091-0PH50	Length 5 m Useful to connect the reader directly to a power supply of type 6GT2898-0ACx0

* These cables are available in various lengths (see catalogue or mall)



Description	Part Number	Notes
Additional components		
Covering caps for unused M12 ports	3RX9 802-0AA00	1 pack = 10 items

Bulk Cable and Connectors

Bulk Cable and Connectors

	RF166C	RF120C	RS232 to PC	Ethernet to PC	RF170C	RF185C, RF186C/CI, RF188C/CI
RF200						
RF2x0R (IO-Link)	For IP 20 Master with screws or push in: 6XV1 801-2C (5 wire sensor cable; minimum order 20 m) 6GK1 908-0DC10-6AA0 (reader connector; never assemble pin 2)			For IP 67 Master with M12: 6XV1 801-2C (5 wire sensor cable; minimum order 20 m) 6GK1 908-0DC10-6AA0 (reader connector; never assemble pin 2) 6GK1 908-0DB10-6AA0 (IO-Link master connector)		
RF2X0R RF210M (RS422) (CM type)	6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GT2090-0BE00 (CM connector)	6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 9-pin submin-D/M (CM connector) ¹	6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) PC side: interface converter RS422/ RS232	Not applicable	6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GT2090-0BE00 (CM connector)	6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GT2090-0BE00 (CM connector)
RF240R RF250R RF260R RF285R RF290R (RS232)	Not applicable	Not applicable	6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GT2 490-1AA00 (PC connector)	Not applicable	Not applicable	Not applicable
RF300						
RF3x0R (RS422) (CM type)	6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GT2090-0BE00 (CM connector)	6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 9-pin submin-D/M (CM connector) ¹	6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) PC side: interface converter RS422/ RS232	Not applicable	6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GT2090-0BE00 (CM connector)	6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GT2090-0BE00 (CM connector)
RF38xR (RS232)	Not applicable	Not applicable	6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GT2 490-1AA00 (PC connector)	Not applicable	Not applicable	Not applicable
RF600						
RF610R/ RF615R/ RF680R/ RF685R	6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GT2090-0BE00 (CM connector)	Not applicable	Not applicable	6XV1 840-2AH10 (>20 m cable) 6GK1901-0DB20-6AA0 (M12 Plug, reader connector) 6GK1901-1BB10-2AA0 (RJ45, network connector)	Not applicable	Not applicable
RF690R/ RF695R	Not applicable	Not applicable	Not applicable	6XV1 840-2AH10 (>20 m cable) 6GK1901-1BB10-2AA0 (RJ45, reader connector + network connector)	Not applicable	Not applicable
RF1000						
RF1040R/ RF1070R	Always use assembled cables: 6GT2891-4UJ20 (2m)	Always use assembled cables: 6GT2891-6UJ20 (2m)	Always use assembled cables: 6GT2891-2UH30 (3m, open) 6GT2891-7UH18 (1.8m, sub-D)	Not applicable	Always use assembled cables 6GT2891-4UH20 (2m)	Always use assembled cables: 6GT2891-4UH20 (2m)

Bulk Cable and Connectors

	RF166C	RF120C	RS232 to PC	Ethernet to PC	RF170C	RF185C, RF186C/CI, RF188C/CI
MV500						
MV500	Always use reader-side assembled cables: 10 m = 6GF3 500-8BA21 10 m UL = 6GF3500-8BA23 30 m = 6GF3500-8BA41 30 m UL = 6GF3500-8BA43 6GT2090-0BE00 (CM connector)	Always use reader-side assembled cables: 10 m = 6GF3 500-8BA21 10 m UL = 6GF3500-8BA23 30 m = 6GF3500-8BA41 30 m UL = 6GF3500-8BA43 9-pin submin-D/M (CM connector) ¹	Always use reader-side assembled cables: 10 m = 6GF3 500-8BA21 10 m UL = 6GF3500-8BA23 30 m = 6GF3500-8BA41 30 m UL = 6GF3500-8BA43 6GT2 490-1AA00 (PC connector)	Always use reader-side assembled cables with 90° angled connector 100 MB: 6XV1 870-8xxx (0.3 to 15 m) 6GK1 901-1BB10-2AA0 (RJ45, 2x2) 6GK1 901-0DB20-6AA0 (M12, 2x2) 1000 MB: 6XV1 878-5Gxxx (0.3 to 15 m) 6GK1 901-1BB12-2AA0 (RJ45, 4x2) 6GK1 901-0DB30-6AA0 (M12, 4x2) The connectors (M12, RJ45) can be assembled after cutting one connector of an existing cable	Always use reader-side assembled cables: 10 m = 6GF3 500-8BA21 10 m UL = 6GF3500-8BA23 30 m = 6GF3500-8BA41 30 m UL = 6GF3500-8BA43 6GT2090-0BE00 (CM connector)	Always use reader-side assembled cables: 10 m = 6GF3 500-8BA21 10 m UL = 6GF3500-8BA23 30 m = 6GF3500-8BA41 30 m UL = 6GF3500-8BA43 6GT2090-0BE00 (CM connector)

1. Order via distributor for electronic components

Power & Control-side Networking Components							
	RF166C	RF120C	RS232 to PC	RF185C, RF186C/CI, RF188C/CI	RF360R	RF600	MV500
Cable & Connec-tors	See RF166C Bill of Materials Guide Page 89	Direct with S7-1200 assembly	See individual readers above	See RF18xC bill of materials guide page 87	See RF360R bill of materials guide page 90	6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GK1907-0DB10-6AA3 (power supply)	Always use reader-side assembled cables (M12, 12pin) and power-side open ends: 10 m = 6GF3 500-8BA21 30 m = 6GF3 500-8BA41