

# FL WLAN 1022 - Wireless module



1752493

<https://www.phoenixcontact.com/pc/products/1752493>

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WLAN client, soft access point, Wi-Fi 6, with 2 external antenna connections (RSMA-F), IP20, -30°C ... +60°C, WLAN 802.11a, n, ac, ax, frequency: 2.4 GHz, 5 GHz, 6 GHz, connection data: 9 V DC ... 32 V DC, RJ45: for LAN, http/https, CLI, REST API

## Your advantages

- Wi-Fi 6E (6 GHz)
- Wi-Fi 6 (2,4/5 GHz)
- Gross data rate up to 2400 Mbps
- Fast roaming in cellular applications
- Controllable via REST API
- Highest safety WPA 2/3
- RJ45 with 10/100/1000 Mbps

## Commercial data

Item number	1752493
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DNN2W4
GTIN	4067923318397
Weight per piece (including packing)	264 g
Weight per piece (excluding packing)	370 g
Customs tariff number	85176200
Country of origin	DE

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## Technical data

### Product properties

Type	Stand-alone
Insulation characteristics	
Overvoltage category	II (IEC 61010-1)
Pollution degree	2
Wireless card	
Type	IEEE 802.11 a/b/g/n/ac/ax 2,4 GHz, 5 GHz > 600 MBit/s
Assembly note	Permanently installed

### Electrical properties

Maximum power dissipation for nominal condition	4.3 W
Test section	24 V supply / functional ground 500 V DC 1 min
	Ethernet interface/all other potentials 2.25 kV DC 1 min
	24 V supply/internal communications 500 V DC 1 min

### Supply: Module electronics

Connection technology	COMBICON
Connection method	Push-in spring connection
Note on the connection method	Recommended conductor cross-section: 0.75 mm <sup>2</sup>
	Recommended ferrule: connection length 10 mm
	Recommended crimping pliers: trapezoidal or square
Designation	1128752 FMC 1,5/ 3-ST-3,5-RF GY35BD1-3
Number of positions	3
Cross section range AWG	24 ... 16
Supply voltage	24 V DC (SELV)
Supply voltage range	9 V DC ... 32 V DC (PELV/SELV)
Supply current	typ. 180 mA (at U <sub>nom</sub> / 20°C/ max. data throughput)
Current consumption	max. 800 mA (At U <sub>min</sub> /T <sub>max</sub> /max. data throughput)

### Connection data

#### 1128752 FMC 1,5/ 3-ST-3,5-RF GY35BD1-3

Connection method	Push-in spring connection
Conductor cross-section, rigid	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 16
Stripping length	10 mm

### Interfaces

#### Antenna

Number	2
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Note on the connection method	MIMO
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## Functions

Configuration	Web-based management, automated CLI, REST API
Quality of service (QoS)	Yes
Wireless licenses	Europe, additional countries in the e-shop
Country support	Belgium
	Bulgaria
	Denmark
	Germany
	Estonia
	Finland
	France
	Greece
	Great Britain
	Ireland
	Italy
	Latvia
	Liechtenstein
	Lithuania
	Luxembourg
	Malta
	Netherlands
	Norway
	Austria
	Poland
Portugal	
Romania	
Sweden	
Switzerland	
Slovakia	
Slovenia	
Spain	
Czech Republic	
Hungary	
Cyprus (rep.)	

## Ethernet (RJ45)

Number of interfaces	1
Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100/1000 Mbps
Transmission physics	Copper
Transmission length	100 m (per segment)
No. of channels	1 (RJ45 ports)

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## Wireless

Designation	Wireless LAN
Antenna connection method	RSMA (female)
Frequency band	2.4 GHz
	5 GHz
	6 GHz
Wireless standard	WLAN
	IEEE 802.11
	a
	b
	g
	n
	ac
	ax
	Wi-Fi 6
Transmission power	max. 19.5 dBm (with two antennas)
Number of wireless interfaces	1 IEEE 802.11 a/b/g/n/ac/ax
Wireless modules that can be connected	20 (10 per virtual interface in AP mode)

## Dimensions

Width	63 mm
Height	26 mm
Depth	113 mm
Note on dimensions	Installed dimensions without connector

## Material specifications

Material base plate	Die-cast zinc, nickel-plated
Housing material	PC

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-30 °C ... 60 °C
Degree of protection	IP20
Air pressure (operation)	800 hPa ... 1080 hPa (up to 2000 m above sea level)
Air pressure (storage/transport)	660 hPa ... 1080 hPa (Up to 3500 m above mean sea level)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

## EMC data

### Electrostatic discharge

Standards/regulations	EN 61000-4-2
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## Electrostatic discharge

Contact discharge	± 6 kV
Discharge in air	± 8 kV
Indirect discharge	± 6 kV

## Electromagnetic HF field

Standards/regulations	EN 61000-4-3
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## Electromagnetic HF field

Frequency range	80 MHz ... 1000 MHz
Test field strength	10 V/m
Frequency range	1000 MHz ... 6000 MHz
Test field strength	3 V/m

## Fast transients (burst)

Standards/regulations	EN 61000-4-4
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## Fast transients (burst)

Comments	±2.2 kV
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## Surge current load (surge)

Standards/regulations	EN 61000-4-5
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## Surge current load (surge)

Signal	± 0.5 kV (symmetrical)
	± 1 kV (asymmetrical)

## Conducted interference

Standards/regulations	EN 61000-4-6
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## Conducted interference

Frequency range	0.15 MHz ... 80 MHz
Voltage	10 V

## Emitted interference

Standards/regulations	EN 55032
Test result	Class B

## Mounting

Mounting type	Panel mounting
	DIN rail mounting
Assembly note	Antennas not included in scope of supply

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## Classifications

### ECLASS

ECLASS-13.0	19170501
ECLASS-15.0	19170501

### ETIM

ETIM 10.0	EC000816
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### UNSPSC

UNSPSC 21.0	43222600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### EU REACH SVHC

REACH candidate substance (CAS No.)	4,4'-isopropylidenediphenol(CAS: 80-05-7)
	Lead(CAS: 7439-92-1)
	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7)
	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9)

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## Accessories

### FL RMS 20 - DIN rail adapter

1178237

<https://www.phoenixcontact.com/pc/products/1178237>

DIN rail adapter for IP20 WLAN devices



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### ANT-OMNI-2459-04 - Antenna

1284780

<https://www.phoenixcontact.com/pc/products/1284780>



Multiband omnidirectional antenna for freely mobile applications, compact design, frequency band: 2.4 GHz / 5 GHz / 6 GHz, gain: 2.0 dBi / 2.5 dBi / 3.0 dBi, degree of protection: IP68/IP69K, shock- and vibration-resistant, connection: N (male)

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## RAD-PIG-EF316-N-RSMA - Antenna cable

2701402

<https://www.phoenixcontact.com/pc/products/2701402>

Antenna cable for control cabinet feed-through, outside diameter: 3.2 mm (0.126 in.), inner conductor: stranded, attenuation: 0.6 / 0.9 / 1.4 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (female) -> RSMA (male), cable length: 0.5 m (1.6 ft.)



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## FL MICRO SD FLASH - Program/configuration memory

1129482

<https://www.phoenixcontact.com/pc/products/1129482>

Configuration memory in micro SD format



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## NBC-COX-CNM/0.5-S/COX-CLM - Coaxial cable

1340130

<https://www.phoenixcontact.com/pc/products/1340130>



Coaxial cable, 50  $\Omega$ , length: 0.5 m, N(m) - RSMA(m), external cable diameter: 2.8 mm, transmission frequency:  $\leq 7.25$  GHz, typical attenuation: 800 MHz 0.4 dB, 2.4 GHz 0.7 dB, 5.8 GHz 1.1 dB, 7.25 GHz 1.5 dB

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## NBC-COX-CNM/1.0-M/COX-CLM - Coaxial cable

1340131

<https://www.phoenixcontact.com/pc/products/1340131>



Coaxial cable, 50  $\Omega$ , length: 1 m, N(m) - RSMA(m), external cable diameter: 4.9 mm, transmission frequency:  $\leq 7.25$  GHz, typical attenuation: 800 MHz 0.5 dB, 2.4 GHz 0.8 dB, 5.8 GHz 1.2 dB, 7.25 GHz 1.4 dB

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## NBC-COX-CNM/1.5-M/COX-CLM - Coaxial cable

1340133

<https://www.phoenixcontact.com/pc/products/1340133>



Coaxial cable, 50  $\Omega$ , length: 1.5 m, N(m) - RSMA(m), external cable diameter: 4.9 mm, transmission frequency:  $\leq 7.25$  GHz, typical attenuation: 800 MHz 0.7 dB, 2.4 GHz 1.1 dB, 5.8 GHz 1.8 dB, 7.25 GHz 2.1 dB

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## NBC-COX-CNM/2.0-M/COX-CLM - Coaxial cable

1340135

<https://www.phoenixcontact.com/pc/products/1340135>



Coaxial cable, 50  $\Omega$ , length: 2 m, N(m) - RSMA(m), external cable diameter: 4.9 mm, transmission frequency:  $\leq 7.25$  GHz, typical attenuation: 800 MHz 0.9 dB, 2.4 GHz 1.5 dB, 5.8 GHz 2.4 dB, 7.25 GHz 2.8 dB

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## RAD-ADP-N/F-N/F - Adapter

2867843

<https://www.phoenixcontact.com/pc/products/2867843>

Antenna adapter for control cabinet feed-through, frequency range: 0.3 GHz ...  
6 GHz, degree of protection: IP65, connection: 2 x N (female)



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