



SIMATIC ET 200BL, PROFINET interface module IM, 2x integrated RJ45 socket, 16 I/O modules, PN security class 1, including end cover packing unit: 1 unit,

General information	
Product type designation	IM 155-8 PN
HW functional status	from FS01
Firmware version	V1.0.0
<ul style="list-style-type: none"> FW update possible 	Yes
Vendor identification (VendorID)	0x002A
Device identifier (DeviceID)	0x031D
Product function	
<ul style="list-style-type: none"> I&M data 	Yes; I&M0 to I&M3
<ul style="list-style-type: none"> Module swapping during operation (hot swapping) 	No
<ul style="list-style-type: none"> Isochronous mode 	No
<ul style="list-style-type: none"> IRT 	Yes
Engineering with	
<ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated from version 	STEP 7 V18 or higher; MicroWin V3.0 or higher; Configuration in ES via GSDML;
<ul style="list-style-type: none"> PROFINET from GSD version/GSD revision 	GSDML V2.45
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Short-circuit protection	Yes
Mains buffering	
<ul style="list-style-type: none"> Mains/voltage failure stored energy time 	5 ms
Input current	
Current consumption (rated value)	350 mA
Current consumption, max.	480 mA
Inrush current, max.	0.314 A
I^2t	0.00037 A ² ·s
Power loss	
Power loss, typ.	1.9 W
Address area	
Address space per module	
<ul style="list-style-type: none"> Address space per module, max. 	128 byte; For input and output data respectively
Address space per station	
<ul style="list-style-type: none"> Address space per station, max. 	128 byte; For input and output data respectively
Hardware configuration	
Rack	
<ul style="list-style-type: none"> number of modules per ET 200BL station, max. 	16

Interfaces	
Number of PROFINET interfaces	1; 2 ports (switch)
1. Interface	
Interface types	
<ul style="list-style-type: none"> • RJ 45 (Ethernet) • Number of ports • integrated switch • BusAdapter (PROFINET) 	Yes; 2 integrated RJ45 ports 2; integrated RJ45 ports Yes No
Protocols	
<ul style="list-style-type: none"> • PROFINET IO Device • PROFIBUS DP device • Open IE communication • Media redundancy 	Yes No Yes No
PROFINET IO Device	
Services	
<ul style="list-style-type: none"> — IRT — PROFIenergy — Shared device 	Yes No No
Interface types	
RJ 45 (Ethernet)	
<ul style="list-style-type: none"> • Transmission procedure • 100 Mbps • Autonegotiation • Autocrossing 	PROFINET with 100 Mbit/s full duplex (100BASE-TX) Yes Yes Yes
Protocols	
Supports protocol for PROFINET IO	Yes
PROFIsafe	No
PROFIBUS	No
EtherNet/IP	No
Modbus TCP	No
Redundancy mode	
<ul style="list-style-type: none"> • PROFINET system redundancy (S2) 	No
Media redundancy	
<ul style="list-style-type: none"> — MRP — MRPD 	No No
Open IE communication	
<ul style="list-style-type: none"> • TCP/IP • SNMP • LLDP 	Yes Yes Yes
Interrupts/diagnostics/status information	
Status indicator	Yes
Alarms	Yes
Diagnostics function	Yes
Diagnostics indication LED	
<ul style="list-style-type: none"> • RUN LED • ERROR LED • MAINT LED • Monitoring of the supply voltage (PWR-LED) • Connection display LINK TX/RX 	Yes; green LED Yes; red LED Yes; Yellow LED Yes; green PWR LED Yes; 2x green LED
Potential separation	
between backplane bus and electronics	No
between PROFINET and all other circuits	Yes; 1500 V AC (type test)
between supply and all other circuits	No
Isolation	
Isolation tested with	500 V AC/707 V DC, type test
Standards, approvals, certificates	
Network loading class	3
Ecological footprint	

• environmental product declaration	Yes
Global warming potential	
— global warming potential, (total) [CO2 eq]	91 kg
— global warming potential, (during production) [CO2 eq]	4.7 kg
— global warming potential, (during operation) [CO2 eq]	86.4 kg
— global warming potential, (after end of life cycle) [CO2 eq]	-0.193 kg

Security	
PROFINET Security Class	1
signed firmware update	Yes
Secure Boot	Yes
safely removing data	Yes

Ambient conditions	
Ambient temperature during operation	
• horizontal installation, min.	-30 °C
• horizontal installation, max.	60 °C
• vertical installation, min.	-30 °C
• vertical installation, max.	50 °C

Altitude during operation relating to sea level	
• Installation altitude above sea level, max.	5 000 m

Dimensions	
Width	35 mm
Height	117 mm
Depth	74 mm

Weights	
Weight, approx.	96 g

Classifications			
		Version	Classification
	eClass	14	27-24-26-08
	eClass	12	27-24-26-08
	eClass	9.1	27-24-26-08
	eClass	9	27-24-26-08
	eClass	8	27-24-26-08
	eClass	7.1	27-24-26-08
	eClass	6	27-24-26-08
	ETIM	10	EC001604
	ETIM	9	EC001604
	ETIM	8	EC001604
	ETIM	7	EC001604

Approvals / Certificates

General Product Approval



[China RoHS](#)



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