



Figure similar

SIMATIC ET 200SP, PROFINET, 2-port interface module IM 155-6 PN R1, 1 slot for BusAdapter, max. 64 I/O modules R1 redundancy, multi hot swap, 0.25 ms, optional PN strain relief,

General information	
Product type designation	IM 155-6 PN R1
HW functional status	From FS01
Firmware version	V6.0
• FW update possible	Yes
Product function	
• I&M data	Yes; I&M0 to I&M3
• Module swapping during operation (hot swapping)	Yes; Multi-hot swapping
• Isochronous mode	No
Engineering with	
• STEP 7 TIA Portal configurable/integrated from version	V18
• PROFINET from GSD version/GSD revision	GSDML V2.42
Configuration control	
via dataset	No
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Short-circuit protection	Yes
Mains buffering	
• Mains/voltage failure stored energy time	10 ms
Input current	
Current consumption, max.	700 mA
Inrush current, max.	5 A
I ² t	0.36 A ² ·s
Power loss	
Power loss, typ.	2.4 W
Address area	
Address space per module	
• Address space per module, max.	288 byte; For input and output data respectively
Address space per station	
• Address space per station, max.	1 440 byte
Hardware configuration	
Rack	
• Quantity of operable ET 200SP modules, max.	64
• Quantity of operable ET 200AL modules, max.	0
Submodules	
• Number of submodules per station, max.	256

Interfaces	
Number of PROFINET interfaces	1; 2 ports (switch)
1. Interface	
Interface types	
• RJ 45 (Ethernet) • Number of ports • integrated switch • BusAdapter (PROFINET)	Yes 2 Yes Yes; BA 2x RJ45, BA 2x M12, BA 2x FC, BA 2x SCRJ, BA SCRJ/RJ45, BA SCRJ/FC, BA 2x LC, BA LC/RJ45, BA LC/FC, BA 2x LC-LD, BA LC-LD/RJ45, BA LC-LD/M12
Protocols	
• PROFINET IO Device • Open IE communication • Media redundancy	Yes Yes Yes
PROFINET IO Device	
Services	
— IRT — PROFIenergy — Prioritized startup — Shared device	No No No No
Interface types	
RJ 45 (Ethernet)	
• Transmission procedure • 100 Mbps • Autonegotiation • Autocrossing	PROFINET with 100 Mbit/s full duplex (100BASE-TX) Yes Yes Yes
Protocols	
Modbus TCP	No
Redundancy mode	
• PROFINET system redundancy (S2) • PROFINET system redundancy (R1) • H-Sync forwarding	No Yes Yes
Media redundancy	
— MRP — MRPD	Yes No
Open IE communication	
• TCP/IP • SNMP • LLDP	Yes Yes Yes
Interrupts/diagnostics/status information	
Status indicator	Yes
Alarms	Yes
Diagnostics function	Yes
Diagnostics indication LED	
• RUN LED • ERROR LED • MAINT LED • ACT LED • Monitoring of the supply voltage (PWR-LED) • Connection display LINK TX/RX	Yes; green LED Yes; red LED Yes; Yellow LED Yes; green LED Yes; green PWR LED Yes; 2x green link LEDs on BusAdapter
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	Yes
Permissible potential difference	
between different circuits	Safety extra low voltage SELV
Isolation	
Isolation tested with	707 V DC (type test)
Ambient conditions	
Ambient temperature during operation	
• horizontal installation, min.	-30 °C; No condensation

• horizontal installation, max. • vertical installation, min. • vertical installation, max.	60 °C -30 °C; No condensation 50 °C
Altitude during operation relating to sea level	
• Installation altitude above sea level, max.	2 000 m
connection method	
ET-Connection	
• via BU/BA Send	No
Dimensions	
Width	50 mm
Height	138 mm
Depth	89 mm
Weights	
Weight, approx.	192 g; without BusAdapter
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