



Figure similar

SIMATIC ET 200SP, PROFINET INTERFACE MODULE IM155-6PN STANDARD, MAX. 32 PERIPHERY MODULES, INCL. SERVERMODUL, INCL. BUSADAPTER BA 2X RJ45

Product type designation

General information

Product function

- I&M data Yes

Engineering with

- STEP 7 TIA Portal can be configured/integrated as of version V11 SP2 with HSP0024 / -
- STEP 7 can be configured/integrated as of version V5.5 SP3 / -
- PROFINET as of GSD version/GSD revision V2.3 / -

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

Mains buffering

- Mains/voltage failure buffering time 5 ms

Input current

Current consumption, max.	450 mA
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Power losses

Power loss, typ.	1.9 W
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Address area

Address space per module	
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• Address space per module, max.	32 byte; per input / output
Address space per station	
• Address space per station, max.	386 byte; per input / output

Hardware configuration

Rack	
• Modules per rack, max.	32

Interfaces

Number of PROFINET interfaces	1
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1. Interface

Interface types

— Number of ports	2
— Integrated switch	Yes
— RJ 45 (Ethernet)	Yes; Pre-assembled BusAdapter BA 2x RJ45
— Bus adapter (PROFINET)	Yes; Applicable BusAdapters: BA 2x RJ45, BA 2x FC

Protocols

— PROFINET IO Device	Yes
— Open IE communication	Yes
— Media redundancy	Yes

Interface types

RJ 45 (Ethernet)

• 10 Mbps	Yes; for Ethernet services
• 100 Mbps	Yes; PROFINET with 100 Mbit/s full duplex (100BASE-TX)
• Transmission procedure	PROFINET with 100 Mbit/s full duplex (100BASE-TX)
• Autonegotiation	Yes
• Autocrossing	Yes

Protocols

PROFINET IO

• PROFINET IO	Yes
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PROFINET IO Device

Services

— Isochronous mode	No
— Open IE communication	Yes
— IRT, supported	Yes; with send cycles of between 250 µs and 4 ms in increments of 125 µs
— PROFIenergy	Yes
— Prioritized startup	Yes
— Shared device	Yes
— Number of IO controllers with shared device, max.	2

Open IE communication

• TCP/IP	Yes
• SNMP	Yes
• LLDP	Yes
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	No
Interrupts/diagnostics/status information	
Status indicator	Yes
Alarms	
• Alarms	Yes
Diagnostic messages	
• Diagnostic functions	Yes
Diagnostics indication LED	
• RUN LED	Yes; Green LED
• ERROR LED	Yes; Red LED
• MAINT LED	Yes; yellow LED
• Monitoring of the supply voltage (PWR-LED)	Yes; Green LED
• Connection display LINK TX/RX	Yes; 2x green LED
Galvanic isolation	
between backplane bus and electronics	No
between PROFINET and all other circuits	Yes
between supply and all other circuits	Yes
Permissible potential difference	
between different circuits	75 V DC/60 V AC (base isolation)
Isolation	
Isolation checked with	707 V DC between supply voltage and electronics; 1500 V AC between Ethernet and electronics
Standards, approvals, certificates	
Network loading class	3
Security level	According to Security Level 1 Test Cases V1.1.1
Dimensions	
Width	50 mm
Height	117 mm
Depth	74 mm
Weights	
Weight, approx.	191 g; IM155PN ST with BA 2x RJ45 (mounted)
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