



*** Spare part *** SIMATIC ET 200SP, PROFINET interface module IM 155-6PN standard, max. 32 I/O modules, incl. server module

General information	
Product type designation	IM 155-6 PN ST
Firmware version	V3.3
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) 	Yes; Single hot swapping
<ul style="list-style-type: none"> Isochronous mode 	No
Engineering with	
<ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated from version 	V13 SP1
<ul style="list-style-type: none"> STEP 7 configurable/integrated from version 	V5.5 SP4 and higher
<ul style="list-style-type: none"> PROFINET from GSD version/GSD revision 	V2.3 / -
Configuration control	
via dataset	Yes
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	
<ul style="list-style-type: none"> Mains/voltage failure stored energy time 	5 ms
Input current	
Current consumption, max.	450 mA
Inrush current, max.	3.7 A
I^2t	0.09 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. 	256 byte; per input / output
Address space per station	
<ul style="list-style-type: none"> Address space per station, max. 	512 byte; Dependent on configuration
Hardware configuration	
Rack	
<ul style="list-style-type: none"> Modules per rack, max. 	32; + 16 ET 200AL modules
Submodules	
<ul style="list-style-type: none"> Number of submodules per station, max. 	256
Interfaces	
Number of PROFINET interfaces	1; 2 ports (switch)

1. Interface	
Interface types	
<ul style="list-style-type: none"> Number of ports integrated switch BusAdapter (PROFINET) 	2 Yes Yes; Applicable BusAdapter: BA 2x RJ45, BA 2x FC
Protocols	
<ul style="list-style-type: none"> PROFINET IO Device Open IE communication Media redundancy 	Yes Yes Yes; PROFINET MRP
Interface types	
RJ 45 (Ethernet)	
<ul style="list-style-type: none"> Transmission procedure 10 Mbps 100 Mbps Autonegotiation Autocrossing 	PROFINET with 100 Mbit/s full duplex (100BASE-TX) No Yes; PROFINET with 100 Mbit/s full duplex (100BASE-TX) Yes Yes
Protocols	
PROFINET IO Device	
Services	
<ul style="list-style-type: none"> — IRT — PROFIenergy — Prioritized startup — Shared device — Number of IO Controllers with shared device, max. 	Yes; with send cycles of between 250 µs and 4 ms in increments of 125 µs Yes Yes Yes 2
Redundancy mode	
<ul style="list-style-type: none"> PROFINET system redundancy (S2) 	No
Media redundancy	
<ul style="list-style-type: none"> — MRP — MRPD 	Yes No
Open IE communication	
<ul style="list-style-type: none"> TCP/IP SNMP LLDP 	Yes Yes Yes
Isochronous mode	
Equidistance	No
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 link LEDs on BusAdapter
Potential separation	
between backplane bus and electronics	No
between PROFINET and all other circuits	Yes
between supply and all other circuits	Yes
Isolation	
Isolation tested with	707 V DC between supply voltage and electronics; 1 500 V AC between Ethernet and electronics
Standards, approvals, certificates	
Network loading class	2
Security level	According to Security Level 1 Test Cases V1.1.1
Ambient conditions	
Ambient temperature during operation	

- horizontal installation, min. 0 °C
- horizontal installation, max. 60 °C
- vertical installation, min. 0 °C
- vertical installation, max. 50 °C

connection method / header

ET-Connection

- via BU/BA Send Yes; + 16 ET 200AL modules

Dimensions

Width	50 mm
Height	117 mm
Depth	74 mm

Weights

Weight, approx.	147 g; without BusAdapter
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last modified: 5/25/2021 