



SIMATIC ET 200SP, PROFINET interface module IM 155-6PN Basic, Max. 12 I/O modules, 2x integrated RJ45 sockets incl. server module

General information	
Product type designation	IM 155-6 PN BA
HW functional status	from FS04
Firmware version	
<ul style="list-style-type: none"> FW update possible 	Yes
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
<ul style="list-style-type: none"> PROFINET from GSD version/GSD revision 	GSDML V2.31
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
Short-circuit protection	Yes
Mains buffering	
<ul style="list-style-type: none"> Mains/voltage failure stored energy time 	5 ms
Input current	
Current consumption, max.	300 mA
I^2t	0.09 A ² ·s
Power loss	
Power loss, typ.	1.8 W
Address area	
Address space per module	
<ul style="list-style-type: none"> Address space per module, max. 	32 byte; For input and output data respectively
Address space per station	
<ul style="list-style-type: none"> Address space per station, max. 	32 byte
Hardware configuration	
Rack	
<ul style="list-style-type: none"> Quantity of operable ET 200SP modules, max. 	12
<ul style="list-style-type: none"> Quantity of operable ET 200AL modules, max. 	0
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 • Open IE communication • Media redundancy 	Yes Yes Yes; PROFINET MRP client
PROFINET IO Device	
Services	
<ul style="list-style-type: none"> — IRT — PROFIenergy — Prioritized startup — Shared device 	No No 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 	Yes 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 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	No
Permissible potential difference	
between different circuits	Safety extra low voltage SELV
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Network loading class	2
Ambient conditions	

Ambient temperature during operation	
• horizontal installation, min.	-30 °C; No condensation
• horizontal installation, max.	60 °C
• vertical installation, min.	-30 °C; No condensation
• vertical installation, max.	50 °C

Altitude during operation relating to sea level	
• Installation altitude above sea level, max.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual

Connection method

ET-Connection	
• via BU/BA Send	No

Dimensions

Width	35 mm
Height	117 mm
Depth	74 mm

Weights

Weight, approx.	125 g
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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
IDEA	4	3564
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval



[Miscellaneous](#)

[Manufacturer Declaration](#)



[KC](#)

General Product Approval For use in hazardous locations



[FM](#)

[CCC-Ex](#)



For use in hazardous locations Maritime application

[Miscellaneous](#)

[Type Examination Certificate](#)



Maritime application Industrial Communication

[NK / Nippon Kaiji Kyokai](#)



[CCS \(China Classification Society\)](#)



[PROFINET](#)

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