



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	
• FW update possible	Yes
Product function	
• I&M data	Yes; I&M0 to I&M3
• Module swapping during operation (hot swapping)	Yes; Single hot swapping
• Isochronous mode	No
Engineering with	
• STEP 7 TIA Portal configurable/integrated from version	V13 SP1
• STEP 7 configurable/integrated from version	V5.5 SP4
• 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	
• Mains/voltage failure stored energy time	5 ms
Input current	
Current consumption, max.	300 mA
I ² t	0.09 A ² ·s
Power loss	
Power loss, typ.	1.8 W
Address area	
Address space per module	
• Address space per module, max.	32 byte; For input and output data respectively
Address space per station	
• Address space per station, max.	32 byte
Hardware configuration	
Rack	
• Quantity of operable ET 200SP modules, max.	12
• Quantity of operable ET 200AL modules, max.	0
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 integrated RJ45 ports 2; integrated RJ45 ports Yes No
Protocols	
• PROFINET IO Device • Open IE communication • Media redundancy	Yes Yes Yes; PROFINET MRP client
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	
Supports protocol for PROFINET IO	Yes
PROFIsafe	No
PROFIBUS	No
EtherNet/IP	No
Modbus TCP	No
Redundancy mode	
• PROFINET system redundancy (S2)	No
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 • 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. - horizontal installation, max. - vertical installation, min. - vertical installation, max.	-30 °C; No condensation 60 °C -30 °C; No condensation 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																																										
Absolute humidity																																											
dew point, min.	-60 °C; suitable for dry room applications																																										
Connection method																																											
ET-Connection																																											
via BU/BA Send	No																																										
Dimensions																																											
Width	35 mm																																										
Height	117 mm																																										
Depth	74 mm																																										
Weights																																											
Weight, approx.	125 g																																										
Classifications																																											
	<table><tr><th></th><th>Version</th><th>Classification</th></tr><tr><td>eClass</td><td>14</td><td>27-24-26-08</td></tr><tr><td>eClass</td><td>12</td><td>27-24-26-08</td></tr><tr><td>eClass</td><td>9.1</td><td>27-24-26-08</td></tr><tr><td>eClass</td><td>9</td><td>27-24-26-08</td></tr><tr><td>eClass</td><td>8</td><td>27-24-26-08</td></tr><tr><td>eClass</td><td>7.1</td><td>27-24-26-08</td></tr><tr><td>eClass</td><td>6</td><td>27-24-26-08</td></tr><tr><td>ETIM</td><td>10</td><td>EC001604</td></tr><tr><td>ETIM</td><td>9</td><td>EC001604</td></tr><tr><td>ETIM</td><td>8</td><td>EC001604</td></tr><tr><td>ETIM</td><td>7</td><td>EC001604</td></tr><tr><td>IDEA</td><td>4</td><td>3564</td></tr><tr><td>UNSPSC</td><td>15</td><td>32-15-17-05</td></tr></table>		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
	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																																											
 EG-Konf. 	Miscellaneous Manufacturer Declaration China RoHS	 UL																																									
General Product Approval		For use in hazardous locations																																									
  RCM 	 UL FM CCC-Ex																																										
For use in hazardous locations		Maritime application																																									
 ATEX  IECEX	Miscellaneous Type Examination Certificate	 ABS  BUREAU VERITAS																																									
Maritime application																																											



[NK / Nippon Kaiji Ky-
okai](#)



[CCS \(China Classifica-
tion Society\)](#)

Maritime application

Industrial Communication

[KR \(Korean Register
of Shipping\)](#)

[PROFINET](#)

last modified:

2/1/2026