

SIMATIC ET 200SP HA, PROFINET INTERFACE MODULE IM155-6 PN MAX. 56 PERIPHERY MODULES, MULTI HOT SWAP, WITHOUT SERVERMODUL



General information	
Product type designation	IM 155-6 PN
HW functional status	FS01
Firmware version	V1.0
Vendor identification (VendorID)	02AH
Device identifier (DeviceID)	030FH
Product function	
• I&M data	Yes; I&M0 to I&M3
Engineering with	
• PCS 7 configurable/integrated as of version	V9.0
Configuration control	
via dataset	No
Supply voltage	
Type of supply voltage	DC
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; +19.2 V to +28.8 V DC
Inrush current, max.	5 A
I ² t	0.36 A ² -s; Due to increased mains buffering of 10 ms
Power	
Infeed power to the backplane bus	7.5 W; No doubling in redundant mode as the infeed power is also designed as redundant.
Power loss	
Power loss, typ.	2.4 W
Address area	
Address space per module	
• Address space per module, max.	256 byte
Address space per station	
• Address space per station, max.	1 440 byte; 1 440 bytes R1 and S1 without CiR, otherwise 1 000 bytes
Hardware configuration	
Integrated power supply	Yes; 24 V DC
Rack	
• Modules per rack, max.	56; 56 slots for I/O modules + server module (width without IM ≤ 1.3 m)
Time stamping	
Accuracy	1 ms; In compliance with the supplementary conditions described in the Equipment Manual
Interfaces	
Number of PROFINET interfaces	1; 2 ports (switch)
1. Interface	
Interface types	
• Number of ports	2; via BusAdapter
• integrated switch	Yes
• BusAdapter (PROFINET)	Yes; Compatible BusAdapters: BA 2x RJ45, BA 2x FC, BA 2x LC
Functionality	
• PROFINET IO Device	Yes
• Open IE communication	Yes
• Media redundancy	Yes; as MRP client
Interface types	
RJ 45 (Ethernet)	
• Transmission procedure	PROFINET with 100 Mbit/s full duplex (100BASE-TX)

- 100 Mbps Yes; PROFINET with 100 Mbit/s full duplex (100BASE-TX)
- Autonegotiation Yes
- Autocrossing Yes

Protocols

PROFINET IO Device

Services

- Open IE communication Yes
- MRP Yes
- PROFINET system redundancy Yes; S2, R1

Open IE communication

- TCP/IP Yes
- SNMP Yes
- LLDP Yes

Interrupts/diagnostics/status information

Status indicator Yes

Alarms Yes

Diagnostic functions Yes

Diagnostics indication LED

- RUN LED Yes; Green LED
- ERROR LED Yes; Red LED
- MAINT LED Yes; yellow LED
- ACTIVE-LED (active IM in redundant configuration) Yes; Green LED
- Monitoring of the supply voltage (PWR-LED) Yes; green PWR LED
- Connection display LINK TX/RX Yes; 2x green link LEDs on BusAdapter

Potential separation

between PROFINET and all other circuits Yes; 1500 V AC

Permissible potential difference

between different circuits Safety extra low voltage SELV

Isolation

Isolation tested with 1 500 V DC/1 min, type test

Ambient conditions

Ambient temperature during operation

- horizontal installation, min. -40 °C
- horizontal installation, max. 70 °C
- vertical installation, min. -40 °C
- vertical installation, max. 60 °C

Dimensions

Width 50 mm

Height	138 mm
Depth	89 mm
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