

SIMATIC ET 200SP HA, PROFINET interface module IM155-6 PN
max. 56 I/O modules, multi-hot swap, without server module



General information	
Product type designation	IM 155-6 PN
HW functional status	FS03
Firmware version	V1.1
Vendor identification (VendorID)	02AH
Device identifier (DeviceID)	030FH
Product function	
<ul style="list-style-type: none"> I&M data 	Yes; I&M0 to I&M3
Engineering with	
<ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated from version 	V16
<ul style="list-style-type: none"> STEP 7 configurable/integrated from version 	V5.6
<ul style="list-style-type: none"> PCS 7 configurable/integrated from version 	V9.0
<ul style="list-style-type: none"> PCS neo can be configured/integrated from version 	V3.0
Configuration control	
via dataset	No
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	10 ms

Input current	
Current consumption, max.	700 mA; +19.2 V to +28.8 V DC
Inrush current, max.	5 A
I^2t	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, BA LC/RJ45, BA LC/FC, BA VD
Protocols	
• 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

Redundancy mode

- PROFINET system redundancy (S2) Yes; S2, R1

Media redundancy

- MRP Yes

Open IE communication

- TCP/IP Yes
- SNMP Yes
- LLDP Yes

Interrupts/diagnostics/status information

Status indicator Yes

Alarms Yes

Diagnostics function Yes

Diagnostics indication LED

- RUN LED Yes; green LED
- ERROR LED Yes; red LED
- MAINT LED Yes; Yellow LED
- ACT LED 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; 1 500 V AC

between supply and all other circuits Yes; Type tested with 1 500 V DC

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

Weights

Weight, approx.	192 g; without BusAdapter
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last modified: 12/09/2020