



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	05
Vendor identification (VendorID)	02AH
Device identifier (DeviceID)	030FH
Product function	
• I&M data	Yes; I&M0 to I&M3
Engineering with	
• STEP 7 TIA Portal configurable/integrated from version	V20
• STEP 7 configurable/integrated from version	V5.7.3
• PCS 7 configurable/integrated from version	V10.0 SP1
• PCS neo can be configured/integrated from version	V6.0
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 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
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
• Autonegotiation		Yes
• Autocrossing		Yes
Protocols		
Supports protocol for PROFINET IO		Yes
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 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

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	9	EC001604
	ETIM	8	EC001604
	ETIM	7	EC001604

Approvals / Certificates

General Product Approval



EG-Konf.

[Miscellaneous](#)





UL

[KC](#)



RCM

General Product Ap-
proval
 For use in hazardous locations





IECEX

[Declaration of Con-
formity](#)



CCC



UL



ATEX

For use in hazardous locations
 Maritime application



IECEX

[Miscellaneous](#)



ABS



BUREAU
VERITAS



DNV



LRS

Maritime application
 Environment
 Industrial Commu-
nication

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



RINA

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



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