SIEMENS

Data sheet

6ES7155-6AU00-0DN0



SIMATIC ET 200SP, PROFINET interface module IM155-6PN High Speed max. 30 I/O modules, 0.125 ms isochronous mode Multi-hotswap, incl. server module

General information	
Product type designation	IM 155-6 PN HS
HW functional status	From FS02
Firmware version	V4.0
 FW update possible 	Yes
Product function	
 I&M data 	Yes; I&M0 to I&M3
 Module swapping during operation (hot swapping) 	Yes; Multi-hot swapping
 Isochronous mode 	Yes
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	STEP 7 V14 or higher
 STEP 7 configurable/integrated from version 	V5.5 SP4 and higher
 PROFINET from GSD version/GSD revision 	- / V2.3
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
Mains buffering	
 Mains/voltage failure stored energy time 	5 ms
Input current	
Current consumption, max.	500 mA
Inrush current, max.	4.5 A
l²t	0.09 A ^{2.} s
Power loss	
Power loss, typ.	1.7 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. 	968 byte; For input and output data respectively
Hardware configuration	
Rack	
 Quantity of operable ET 200SP modules, max. 	30
Quantity of operable ET 200AL modules, max.	0
Submodules	
 Number of submodules per station, max. 	125

Interfaces	
Number of PROFINET interfaces	1; 2 ports (switch)
1. Interface	
Interface types	
Number of ports	2
 integrated switch 	Yes
 BusAdapter (PROFINET) 	Yes; Compatible BusAdapter: BA 2x RJ45, BA 2x FC, BA 2x SCRJ, BA
	SCRJ / RJ45, BA SCRJ / FC, BA 2x LC, BA LC / RJ45, BA LC / FC
Protocols	Yes
 PROFINET IO Device Open IE communication 	Yes
Media redundancy	Yes; As MRP or MRPD client; max. 50 or 30 devices in the ring
PROFINET IO Device	res, As with or with D client, that so or so devices in the ting
Services	
— IRT	Yes; 125 µs, 250 µs, 500 µs, 1 ms, 2 ms, 4 ms additionally with IRT with
	high performance: 250 µs to 4 ms in 125 µs frame
— PROFlenergy	Yes
— Prioritized startup	Yes
— Shared device	Yes
 Number of IO Controllers with shared device, 	4
max.	
Interface types	
RJ 45 (Ethernet)	
 Transmission procedure 10 Mbps 	PROFINET with 100 Mbit/s full duplex (100BASE-TX) No
• 10 Mbps	
•	Yes; PROFINET with 100 Mbit/s full duplex (100BASE-TX) Yes
 Autonegotiation Autocrossing 	Yes
Protocols	
 PROFINET system redundancy (S2) 	No
Media redundancy	NO
- MRP	Yes
— MRPD	Yes
Open IE communication	
• TCP/IP	Yes
• SNMP	Yes
• LLDP	Yes
Isochronous mode	
Equidistance	Yes
shortest clock pulse	125 µs
max. cycle	4 ms
Bus cycle time (TDP), min.	125 µs
Jitter, max.	0.25 µs
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 Monitoring of the supply yeltage (DWD 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 backplane bus and electronics	No
between PROFINET and all other circuits	Yes
between supply and all other circuits	No
Isolation	
Isolation tested with	707 V DC between supply voltage and electronics (type test); 1 500 V AC between Ethernet and electronics (type test)
Standards, approvale, cortificator	
Standards, approvals, certificates	

Network loading class	3
Security level	According to Security Level 1 Test Cases V1.1.1
Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	-25 °C; No condensation
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-25 °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 / header	
ET-Connection	
 via BU/BA Send 	No
Dimensions	
Width	50 mm
Height	117 mm
Depth	74 mm
Weights	
Weight, approx.	147 g; without BusAdapter
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