SIEMENS

Data sheet

6ES7155-6AU00-0BN0



*** Spare part *** SIMATIC ET 200SP, PROFINET interface module IM 155-6PN standard, max. 32 I/O modules, incl. server module

General information	
Product type designation	IM 155-6 PN ST
Firmware version	V3.3
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 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.	450 mA
Inrush current, max.	3.7 A
l²t	0.09 A ² ·s
Power loss	
Power loss, typ.	1.9 W
Address area	
Address space per module	
Address space per module, max.	256 byte; per input / output
Address space per station	
Address space per station, max.	512 byte; Dependent on configuration
Hardware configuration	
Rack	
Modules per rack, max.	32; + 16 ET 200AL modules
Submodules	
Number of submodules per station, max.	256
Interfaces	
Number of PROFINET interfaces	1; 2 ports (switch)

. Interface	
Interface types	
Number of ports	2
• integrated switch	Yes
BusAdapter (PROFINET)	Yes; Applicable BusAdapter: BA 2x RJ45, BA 2x FC
Protocols	Tes, Applicable Bushdapter. BA 2X 1040, BA 2X 1 C
	Voc
PROFINET IO Device	Yes
Open IE communication	Yes
Media redundancy	Yes; PROFINET MRP
nterface types	
RJ 45 (Ethernet)	
Transmission procedure	PROFINET with 100 Mbit/s full duplex (100BASE-TX)
• 10 Mbps	No
• 100 Mbps	Yes; PROFINET with 100 Mbit/s full duplex (100BASE-TX)
 Autonegotiation 	Yes
 Autocrossing 	Yes
Protocols	
PROFINET IO Device	
Services	
— IRT	Yes; with send cycles of between 250 µs and 4 ms in increments of 125
11 X 1	μs
— PROFlenergy	Yes
Prioritized startup	Yes
— Shared device	Yes
Number of IO Controllers with shared device,	2
max.	2
Redundancy mode	
PROFINET system redundancy (S2)	No
Media redundancy	
— MRP	Yes
— MRPD	No
Open IE communication	110
• TCP/IP	Yes
• SNMP	Yes
• LLDP	Yes
sochronous mode	
Equidistance	No
nterrupts/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
Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED
Connection display LINK TX/RX	Yes; 2x green link LEDs on BusAdapter
<u> </u>	166, 27 green link LLD3 on DusAuapter
Potential separation	N.
between backplane bus and electronics	_ No
between PROFINET and all other circuits	Yes
between supply and all other circuits	Yes
solation	
Isolation tested with	707 V DC between supply voltage and electronics; 1 500 V AC betwee Ethernet and electronics
standards, approvals, certificates	
Network loading class	2
Security level	According to Security Level 1 Test Cases V1.1.1
Ambient conditions	

 horizontal installation, min. 	0 °C
 horizontal installation, max. 	60 °C
 vertical installation, min. 	0 °C
 vertical installation, max. 	50 °C
connection method / header	
ET-Connection	
 via BU/BA Send 	Yes; + 16 ET 200AL modules
Dimensions	
Width	50 mm
Height	117 mm
Depth	74 mm
Weights	
Weight, approx.	147 g; without BusAdapter

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last modified: