SIEMENS

Data sheet

6ES7155-6AU01-0BN0



SIMATIC ET 200SP, PROFINET interface module IM 155-6PN Standard, max. 32 I/O modules, and 16 ET 200AL modules, single hot swap, incl. server module (6ES7193-6PA00-0AA0)

General information		
Product type designation	IM 155-6 PN ST	
HW functional status	From FS03	
Firmware version		
FW update possible	Yes	
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 	V14	
 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	
Short-circuit protection	Yes	
Mains buffering		
 Mains/voltage failure stored energy time 	10 ms	
Input current		
Current consumption (rated value)	450 mA	
Current consumption, max.	550 mA	
Inrush current, max.	3.7 A	
l²t	0.09 A ² ·s	
Power		
Infeed power to the backplane bus	4.5 W	
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	
 Quantity of operable ET 200SP modules, max. 	32
Quantity of operable ET 200AL modules, max.	16
Submodules	
Number of submodules per station, max.	256
Interfaces	
Number of PROFINET interfaces	1; 2 ports (switch)
1. Interface	
Interface types	
 Number of ports 	2
 integrated switch 	Yes
BusAdapter (PROFINET)	Yes; compatible BusAdapters: BA 2x RJ45, BA 2x FC, BA 2x M12
Protocols	
 PROFINET IO Device 	Yes
Open IE communication	Yes
Media redundancy	Yes; PROFINET MRP
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	
— IRT	Yes; with send cycles of between 250 μs and 4 ms in increments of 125 $$
	μs
— PROFlenergy	Yes
— Prioritized startup	Yes
— Shared device	Yes
 Number of IO Controllers with shared device, max. 	2
Redundancy mode	
PROFINET system redundancy (S2)	No
Media redundancy	
— MRP	Yes
— MRPD	No
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
 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; 1500 V AC (type test)
between supply and all other circuits	No
Permissible potential difference	
between different circuits	Safety extra low voltage SELV
Isolation	
Isolation tested with	707 V DC (type test)

Standards, approvals, certificates	
Network loading class	2
Security level	According to Security Level 1 Test Cases V1.1.1
Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	0 °C
 horizontal installation, max. 	60 °C
 vertical installation, min. 	0 °C
vertical installation, max.	50 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	5 000 m
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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