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	
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	
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)
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)
• 10 Mbps	Yes; for Ethernet services
• 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, 	2
max.	
Redundancy mode	No
 PROFINET system redundancy (S2) Media redundancy 	INO
— MRP	Yes
— MRPD	No
Open IE communication	INO
• TCP/IP	Yes
• SNMP	Yes
• LLDP	Yes
Interrupts/diagnostics/status information	
Status indicator	Yes
Alarms	Yes
	Yes
Diagnostics function Diagnostics indication LED	160
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	100, Ex groot link EED0 on Duorkaptor
	No
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	0.64
between different circuits	Safety extra low voltage SELV
Isolation	

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Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
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	
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
last modified:	1/17/2021 🗗