Technical specifications

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Technical specifications of the IM 155-6 PN ST

	6ES7155-6AU00-0BN0
General information	
Product type designation	IM 155-6 PN ST with server module
Firmware version	V3.3
Product function	
I&M data	Yes; I&M0 to I&M3
Engineering with	
STEP 7 TIA Portal can be configured/integrated as of version	V13 SP1
STEP 7 can be configured/integrated as of version	V5.5 SP4 or higher
PROFINET as of GSD version/GSD revision	V2.3 / -
Configuration control	
Via data record	Yes
Supply voltage	
Rated value (DC)	24 V
Valid range, low limit (DC)	19.2 V
Valid range, high limit (DC)	28.8 V
Reverse polarity protection	Yes
Power and voltage failure backup	
Power/voltage failure backup time	5 ms
Input current	
Current consumption, max.	450 mA
Power loss	
Power loss, typ.	1.9 W
Address area	
Address space per module	
Address space per module, max.	256 bytes; per input/output
Address space per station	
Address space per station, max.	512 bytes; depending on configuration
Hardware configuration	
Rack	
Modules per rack, max.	32; + 16 ET 200AL modules

	6ES7155-6AU00-0BN0
Interfaces	
Number of PROFINET interfaces	1; 2 ports (switch)
1st interface	
Interface hardware	
• Number of ports	2
• Integrated switch	Yes
• BusAdapter (PROFINET)	Yes; usable BusAdapters: BA 2x RJ45, BA 2x FC
Protocols	
• PROFINET IO device	Yes
• Media redundancy	Yes; PROFINET MRP
Interface hardware	
RJ45 (Ethernet)	
10 Mbps	Yes; for Ethernet services
100 Mbps	Yes; PROFINET with 100 Mbps full duplex (100BASE-TX)
Transmission method	PROFINET with 100 Mbps full duplex (100BASE-TX)
Autonegotiation	Yes
Autocrossing	Yes
Protocols	
PROFINET IO device	
Services	
• Isochronous mode	No
• Open IE communication	Yes
• IRT	Yes; with send cycles between 250 µs and 4 ms in increments of 125 µs
• MRP	Yes
• MRPD	No
• PROFINET system redundancy	No
• PROFIenergy	Yes
• Prioritized startup	Yes
• Shared device	Yes
• Number of IO controllers with shared device, max.	2
Open IE communication	
TCP/IP	Yes
SNMP	Yes
LLDP	Yes

	6ES7155-6AU00-0BN0
Isochronous mode	
Isochronous mode (application synchronized up to terminal)	No
Interrupts/diagnostics/status information	
Status display	Yes
Interrupts	Yes
Diagnostics functions	Yes
Diagnostics indicator 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 LED
Connection display LINK TX/RX	Yes; 2x green LED
Electrical isolation	
Between backplane bus and electronics	No
Between PROFINET and all other circuits	Yes
Between supply and all other circuits	Yes
Permissible potential difference	
Between different circuits	75 V DC/60 V AC (basic insulation)
Insulation	
Insulation tested with	707 V DC between supply voltage and electronics; 1500 V AC between Ethernet and electronics
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 mounting position, min.	0 °C
Horizontal mounting position, max.	60 °C
Vertical mounting position, min.	0 °C
Vertical mounting position, max.	50 °C
Connection technology	
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

Dimension drawing

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This appendix contains a dimension drawing of the module installed on a mounting rail. Always observe the specified dimensions for installation in cabinets, control rooms, etc.



Figure A-1 Dimension drawing of the IM 155-6 PN ST interface module (front and side view)