SIEMENS

Data sheet

6ES7155-6AA01-0BN0



SIMATIC ET 200SP, PROFINET bundle IM, IM 155-6PN ST, max. 32 I/O modules and 16 ET 200AL modules, single hot swap, bundle consists of: Interface module (6ES7155-6AU01-0BN0), Server module (6ES7193-6PA00-0AA0), BusAdapter BA 2xRJ45 (6ES7193-6AR00-0AA0)

Figure similar

General information	
Product type designation	IM155-6PN ST, including BusAdapter BA 2x RJ45
HW functional status	From FS03
Firmware version	V4.2
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
 PROFINET from GSD version/GSD revision 	GSDML V2.35
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 loss	
Power loss, typ.	1.9 W
Address area	
Address space per module	
 Address space per module, max. 	256 byte; For input and output data respectively
Address space per station	
 Address space per station, max. 	512 byte
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	
RJ 45 (Ethernet)	Yes; with BusAdapter
Number of ports	2; with BusAdapter
 integrated switch 	Yes
BusAdapter (PROFINET)	Yes
Protocols	
PROFINET IO Device	Yes
Open IE communication	Yes
Media redundancy	Yes; PROFINET MRP client
PROFINET IO Device	
Services	
— IRT	Yes; 250 µs to 4 ms in 125 µs frame
- PROFlenergy	Yes
— Prioritized startup	Yes
— Shared device	Yes
 — Number of IO Controllers with shared device, max. 	2
Interface types	
RJ 45 (Ethernet)	
Transmission procedure	PROFINET with 100 Mbit/s full duplex (100BASE-TX)
• 100 Mbps	Yes
Autonegotiation	Yes
Autocrossing	Yes
Protocols	
Modbus TCP	No
Redundancy mode	
PROFINET system redundancy (S2)	No
Media redundancy	Y.
— MRP	Yes
— MRPD	No
Open IE communication	Vee
TCP/IP SNMP	Yes
• LLDP	Yes
ILDP Interrupts/diagnostics/status information	Tes
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
Ambient conditions	
Ambient temperature during operation	
, and one comportation during operation	

 horizontal installation, min. 	-30 °C; No condensation
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-30 °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	
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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