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	
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