SIEMENS

Data sheet

6ES7155-6AA00-0BN0



SIMATIC ET 200SP, BUNDLE PROFINET IM, IM155-6PN ST, MAX. 32 PERIPHERY MODULES AND 16 ET 200AL MODULES, SINGLE HOT SWAP, BUNDLE CONTAINS: INTERFACEMODULE (6ES7155-6AU00-0BN0), SERVERMODULE (6ES7193-6PA00-0AA0), BUSADAPTER BA 2X RJ45 (6ES7193-6AR00-0AA0)

IM 155-6 PN ST
V3.3
Yes; I&M0 to I&M3
V13 SP1
V5.5 SP4 and higher
V2.3 / -
Yes
24 V
19.2 V
28.8 V
Yes

Mains/voltage failure stored energy time	5 ms
Input current	
Current consumption, max.	450 mA
Inrush current, max.	3.7 A
l²t	0.09 A²-s
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
• RJ 45 (Ethernet)	Yes; Pre-assembled BusAdapter BA 2x RJ45
BusAdapter (PROFINET)	Yes; Applicable BusAdapter: BA 2x RJ45, BA 2x FC
Functionality	
PROFINET IO Device	Yes
Open IE communication	Yes
Media redundancy	Yes; PROFINET MRP
Interface types	
RJ 45 (Ethernet)	
Transmission procedure	
F	PROFINET with 100 Mbit/s full duplex (100BASE-TX)
• 10 Mbps	PROFINET with 100 Mbit/s full duplex (100BASE-TX) No
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• 10 Mbps	No
10 Mbps100 Mbps	No Yes; PROFINET with 100 Mbit/s full duplex (100BASE-TX)
10 Mbps100 MbpsAutonegotiation	No Yes; PROFINET with 100 Mbit/s full duplex (100BASE-TX) Yes
10 Mbps100 MbpsAutonegotiationAutocrossing	No Yes; PROFINET with 100 Mbit/s full duplex (100BASE-TX) Yes

— Isochronous mode	No
— Open IE communication	Yes
— IRT	Yes; with send cycles of between 250 μ s and 4 ms in increments of 125 μ s
— MRP	Yes
— MRPD	No
 — PROFINET system redundancy 	No
— PROFlenergy	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
Isochronous mode	
Isochronous operation (application synchronized up	No
to terminal)	
Equidistance	No
Interrupts/diagnostics/status information	
Status indicator	Yes
Alarms	Yes
Diagnostic functions	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
between supply and all other circuits	Yes
Isolation	
Isolation tested with	707 V DC between supply voltage and electronics; 1 500 V AC between Ethernet and electronics
Standards, approvals, certificates	
Standards, approvals, certificates Network loading class	2

Ambient temperature during operation 0 °C • horizontal installation, min. 60 °C • horizontal installation, max. 0 °C • vertical installation, min. 50 °C • vertical installation, max. ET-Connection Yes; + 16 ET 200AL modules • via BU/BA Send Width 50 mm Height 117 mm Depth 74 mm

Weights

Weight, approx. 191 g; IM155PN ST with BA 2x RJ45 (mounted)

last modified: 09/23/2017