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	FS02
Firmware version	V4.1
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 as of version 	V14
 STEP 7 configurable/integrated as of version 	V5.5 SP4 and higher
 PROFINET as of 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 A²·s
Power	
Infeed power to the backplane bus	4.5 W
Power loss	
Power loss, typ.	1.9 W
• •	1.5 **
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; Applicable BusAdapter: BA 2x RJ45, BA 2x FC
Protocols	1 cs, Applicable Bashaaptel. BASA 10-10, BASA 1 0
PROFINET IO Device	Yes
Open IE communication	Yes
·	Yes; PROFINET MRP
Media redundancy	165, I IVOI INET IVIIVI
Interface types	
RJ 45 (Ethernet)	
Transmission procedure	PROFINET with 100 Mbit/s full duplex (100BASE-TX)

10 Mbps
 100 Mbps
 Autonegotiation
 Autocrossing
 Yes; for Ethernet services
 Yes; PROFINET with 100 Mbit/s full duplex (100BASE-TX)
 Yes

Protocols PROFINET IO Device Services No - Isochronous mode - Open IE communication Yes Yes; with send cycles of between 250 µs and 4 ms in increments - IRT of 125 µs Yes - PROFlenergy Yes - Prioritized startup Yes - Shared device 2 - Number of IO Controllers with shared device, max. Redundancy mode Yes MRP No • MRPD No • PROFINET system redundancy (S2) Open IE communication Yes • TCP/IP Yes • SNMP Yes • LLDP Isochronous operation (application synchronized up No to terminal) Interrupts/diagnostics/status information Status indicator Yes Alarms Yes Diagnostics function Yes Diagnostics indication LED Yes; Green LED • RUN LED • ERROR LED Yes; Red LED Yes; Yellow LED MAINT LED Yes; Green PWR LED • Monitoring of the supply voltage (PWR-LED) • Connection to network LINK (green) 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 between supply and all other circuits

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
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; 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
last modified:	11/13/2019