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)

General information		
Product type designation	IM 155-6 PN ST	
HW functional status	FS01	
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	
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
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
Protocols	
PROFINET IO Device	Yes
 Open IE communication 	Yes
Media redundancy	Yes; PROFINET MRP
Interface types	
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
	According to Coodinty Lover 1 100t Cacoo VIIII
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.	2 000 m; On request: Installation altitudes greater than 2 000 m
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.	190 g; IM 155-6 PN BA with 2x RJ45 ports and server module
last modified:	09/05/2019