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	From FS03
Product function	
● I&M data	Yes; I&M0 to I&M3
● Module swapping during operation (hot swapping)	Yes
● Isochronous mode	No
Engineering with	
● STEP 7 TIA Portal configurable/integrated from version	V14
● STEP 7 configurable/integrated from version	V5.5 SP4 and higher
● PROFINET from 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
I²t	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	

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Rack		
● Modules per rack, max.	32; + 16 ET 200AL modules	
● 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		
● Number of ports	2	
● integrated switch	Yes	
● BusAdapter (PROFINET)	Yes; compatible BusAdapters: BA 2x RJ45, BA 2x FC, BA 2x M12	
Protocols		
● PROFINET IO Device	Yes	
● Open IE communication	Yes	
● Media redundancy	Yes; PROFINET MRP	
Interface types		
RJ 45 (Ethernet)		
● Transmission procedure	PROFINET with 100 Mbit/s full duplex (100BASE-TX)	
● 10 Mbps	Yes; for Ethernet services	
● 100 Mbps	Yes; PROFINET with 100 Mbit/s full duplex (100BASE-TX)	
● Autonegotiation	Yes	
● Autocrossing	Yes	
Protocols		
PROFINET IO Device		
Services		
— IRT	Yes; with send cycles of between 250 µs and 4 ms in increments of 125 µs	
— PROFIenergy	Yes	
— Prioritized startup	Yes	
— Shared device	Yes	
— Number of IO Controllers with shared device, max.	2	
Redundancy mode		
● PROFINET system redundancy (S2)	No	
Media redundancy		
— MRP	Yes	
— MRPD	No	
Open IE communication		
● TCP/IP	Yes	
● SNMP	Yes	
● LLDP	Yes	
Interrupts/diagnostics/status information		
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	
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	
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; 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.	147 g
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