SIEMENS

Data sheet	6ES7155-6AU00-0BN0

SIMATIC ET 200SP, PROFINET INTERFACE MODULE IM155-6PN STANDARD, MAX. 32 PERIPHERY MODULES, INCL. SERVERMODUL

Product type designation

General information

Product function	
● I&M data	Yes; I&M0 to I&M4
Engineering with	
● STEP 7 TIA Portal configurable/integrated as of version	V13 SP1
● 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
Mains buffering	
● Mains/voltage failure stored energy time	5 ms

Input current

Current consumption, max.	450 mA

Power loss

Power loss, typ.	1.9 W

Address area

30.05.2015

Address space per module	
● Address space per module, max.	256 byte; per input / output
Address space per station	
● Address space per station, max.	798 byte; Dependent on configuration

Hardware configuration
Rack	
● Modules per rack, max.	32

Interfaces
Number of PROFINET interfaces	1

1. Interface	
Interface types	
— Number of ports	2
— integrated switch	Yes
— Bus adapter (PROFINET)	Yes; Applicable BusAdapters: BA 2x RJ45, BA 2x FC
Protocols	
— PROFINET IO Device	Yes
— Media redundancy	Yes; PROFINET MRP

Interface types
RJ 45 (Ethernet)	
● 10 Mbps	Yes; for Ethernet services
● 100 Mbps	Yes; PROFINET with 100 Mbit/s full duplex (100BASE-TX)
● Transmission procedure	PROFINET with 100 Mbit/s full duplex (100BASE-TX)
● Autonegotiation	Yes
● Autocrossing	Yes

Protocols
PROFINET IO	
● PROFINET IO	Yes

PROFINET IO Device	
Services	
— Isochronous mode	No
— Open IE communication	Yes
— IRT	Yes; with send cycles of between 250 µs and 4 ms in increments of 125 µs
— MRP	Yes
— MRPD	No
— PROFINET system redundancy	No
— PROFIenergy	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 to terminal)	No

Interrupts/diagnostics/status information	
Status indicator	Yes
Alarms	
• Alarms	Yes
Diagnostic messages	
• 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 LED
• Connection display LINK TX/RX	Yes; 2x green LED

Potential separation	
between backplane bus and electronics	No
between PROFINET and all other circuits	Yes
between supply and all other circuits	Yes

Permissible potential difference	
between different circuits	75 V DC/60 V AC (base isolation)

Isolation	
Isolation tested with	707 V DC between supply voltage and electronics; 1500 V AC between Ethernet and electronics

Standards, approvals, certificates	
Network loading class	3
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

Connection method	
ET-Connection	
• via BU/BA Send	Yes

Dimensions	
Width	50 mm
Height	117 mm
Depth	74 mm

Weights	
Weight, approx.	147 g; without bus adapter

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