SIEMENS

Data sheet

6ES7155-6AU01-0CN0



SIMATIC ET 200SP, PROFINET, 2-port interface module IM 155-6PN/2 High Feature, 1 slot for BusAdapter, max. 64 I/O modules and 16 ET 200AL modules, S2 redundancy, multi-hotswap, 0.25 ms, isochronous mode, optional PN strain relief, including server module

General information	
Product type designation	IM 155-6 PN/2 HF
HW functional status	From FS02
Firmware version	V4.2
• FW update possible	Yes
Product function	
• I&M data	Yes; I&M0 to I&M3
 Module swapping during operation (hot swapping) 	Yes; Multi-hot swapping
Isochronous mode	Yes
Tool changer	Yes; Docking station and docking unit
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	V15.1
 STEP 7 configurable/integrated from version 	use GSD file
 PROFINET from GSD version/GSD revision 	GSDML V2.34
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, max.	700 mA
Inrush current, max.	4.5 A
l²t	0.25 A ² ·s
Power loss	
Power loss, typ.	2.4 W
Address area	
Address space per module	
 Address space per module, max. 	288 byte; For input and output data respectively
Address space per station	
 Address space per station, max. 	1 440 byte
Hardware configuration	
Rack	
Quantity of operable ET 200SP modules, max.	64
 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	
RJ 45 (Ethernet)	Yes; with BusAdapter
Number of ports	2; with BusAdapter
 integrated switch 	Yes
BusAdapter (PROFINET)	Yes; BA 2x RJ45, BA 2x FC, BA 2x SCRJ, BA SCRJ/RJ45, BA SCRJ/FC, BA 2x LC, BA LC/RJ45, BA LC/FC
Protocols	
PROFINET IO Device	Yes
Open IE communication	Yes
Media redundancy	Yes; PROFINET MRP client
PROFINET IO Device	
Services	
— IRT	Yes; 250 µs to 4 ms in 125 µs frame
- PROFlenergy	Yes
- Prioritized startup	Yes
— Shared device	Yes
— Number of IO Controllers with shared device, max.	4
Interface types	
RJ 45 (Ethernet)	
Transmission procedure	PROFINET with 100 Mbit/s full duplex (100BASE-TX)
• 100 Mbps	Yes
Autonegotiation	Yes
Autoregoliation Autocrossing	Yes
Protocols	
Modbus TCP	No
	No
Number of connections Number of MtM communication relationships/connections, max. 	16
Redundancy mode	
· · · · · · · · · · · · · · · · · · ·	Voc NAD S2
PROFINET system redundancy (S2)	Yes; NAP S2 Yes
H-Sync forwarding Media redundancy	res
	Vee
- MRP	Yes
— MRPD	No
Open IE communication	N/
• TCP/IP	Yes
• SNMP	Yes
• LLDP	Yes
Isochronous mode	
Equidistance	Yes
shortest clock pulse	250 μs
max. cycle	4 ms
Bus cycle time (TDP), min.	250 μs
Jitter, max.	1 µs
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; 1500 V AC (type test)

between supply and all other circuits	No
Permissible potential difference	
between different circuits	Safety extra low voltage SELV
solation	
Isolation tested with	707 V DC (type test)
standards, approvals, certificates	
Network loading class	3
mbient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	-30 °C; No condensation
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-30 °C; No condensation
 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
onnection method	
ET-Connection	
• via BU/BA Send	Yes; + 16 ET 200AL modules
lechanics/material	
Strain relief	Yes; Optional
Dimensions	
Width	50 mm
Height	117 mm
Depth	74 mm
Veights	
Weight, approx.	120 g; without BusAdapter

last modified:

7/13/2024 🖸