SIEMENS

Data sheet

6ES7155-6AU00-0CN0



*** Spare part *** SIMATIC ET 200SP, PROFINET interface module IM 155-6PN High Feature max. 64 I/O modules, 0.25 ms isochronous mode Multi-hotswap, incl. server module

General information	
Product type designation	IM 155-6 PN HF
Firmware version	V3.3
Product function	
 I&M data 	Yes; I&M0 to I&M4
 Module swapping during operation (hot swapping) 	Yes; Multi-hot swapping
Isochronous mode	Yes
Engineering with	
 STEP 7 TIA Portal configurable/integrated from 	V13 SP1 Update 6
version	
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
Mains buffering	
 Mains/voltage failure stored energy time 	5 ms
Input current	
Current consumption, max.	700 mA
Inrush current, max.	4.5 A
l²t	0.09 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; Dependent on configuration
Hardware configuration	
Rack	
 Modules per rack, max. 	64; + 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; Compatible BusAdapter: BA 2x RJ45, BA 2x FC, BA 2x SCRJ
	(from FS03, V2.2), BA SCRJ / RJ45 (from FS03, V3.1), BA SCRJ / FC
	(from FS03, V3.1), BA 2x LC (from FS03, V3.3), BA LC / RJ45 (from
	FS03, V3.3), BA LC / FC (from FS03, V3.3)
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	No
• 100 Mbps	Yes; PROFINET with 100 Mbit/s full duplex (100BASE-TX)
 Autonegotiation 	Yes
Autocrossing	Yes
Protocols	
PROFINET IO Device	
Services	
— IRT	Yes; 250 µs, 500 µs, 1 ms, 2 ms, 4 ms additionally with IRT with high
	performance: 250 μ s to 4 ms in 125 μ s frame
— PROFlenergy	Yes
— Prioritized startup	Yes
— Shared device	Yes
 — Number of IO Controllers with shared device, 	4
max.	
Redundancy mode	
 PROFINET system redundancy (S2) 	Yes; NAP S2
Media redundancy	
— MRP	Yes
— MRPD	No
Open IE communication	
• 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
Potential separation	
between backplane bus and electronics	No
between PROFINET and all other circuits	Yes
between PROFINET and all other circuits	Yes
Isolation	
Isolation tested with	707 V DC between supply voltage and electronics (type test); 1 500 V AC between Ethernet and electronics (type test)
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°0
 vertical installation, max. 	50 °C
connection method / header	
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:	5/25/2021 🖸