## **SIEMENS**

## **Data sheet**

## 6ES7155-6AU00-0DN0



SIMATIC ET 200SP, PROFINET interface module IM155-6PN High Speed max. 30 I/O modules, 0.125 ms isochronous mode Multi-hotswap, incl. server module

General information		
Product type designation	IM 155-6 PN HS	
HW functional status	From FS02	
Firmware version	V4.0	
FW update possible	Yes	
Product function		
● I&M data	Yes; I&M0 to I&M3	
<ul> <li>Module swapping during operation (hot swapping)</li> </ul>	Yes; Multi-hot swapping	
Isochronous mode	Yes	
Engineering with		
<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	STEP 7 V14 or higher	
<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	V5.5 SP4 and higher	
<ul> <li>PROFINET from GSD version/GSD revision</li> </ul>	- / 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		
<ul> <li>Mains/voltage failure stored energy time</li> </ul>	5 ms	
Input current		
Current consumption, max.	500 mA	
Inrush current, max.	4.5 A	
l²t	0.09 A <sup>2</sup> ·s	
Power loss		
Power loss, typ.	1.7 W	
Address area		
Address space per module		
Address space per module, max.	32 byte; For input and output data respectively	
Address space per station		
Address space per station, max.	968 byte; For input and output data respectively	
Hardware configuration		
Rack		
• Quantity of operable ET 200SP modules, max.	30	

- Quantity of energials ET 200AL modules, may	0
Quantity of operable ET 200AL modules, max.  Submodules	
	105
Number of submodules per station, max.	125
Interfaces	4.0 4.4 (11)
Number of PROFINET interfaces	1; 2 ports (switch)
1. Interface	
Interface types	
<ul> <li>Number of ports</li> </ul>	2
<ul> <li>integrated switch</li> </ul>	Yes
<ul><li>BusAdapter (PROFINET)</li></ul>	Yes; Compatible BusAdapter: BA 2x RJ45, BA 2x FC, BA 2x SCRJ, BA
Protocols	SCRJ / RJ45, BA SCRJ / FC, BA 2x LC, BA LC / RJ45, BA LC / FC
PROFINET IO Device	Yes
	Yes
Open IE communication     Media redundancy	
Media redundancy	Yes; As MRP or MRPD client; max. 50 or 30 devices in the ring
Interface types	
RJ 45 (Ethernet)	DDOGNET W 400 MW 4 M 4 M 4 M 4 M 4 M 4 M 4 M 4 M 4 M
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)
<ul> <li>Autonegotiation</li> </ul>	Yes
Autocrossing	Yes
Protocols	
PROFINET IO Device	
Services	
— IRT	Yes; 125 $\mu s,250~\mu s,500~\mu s,1$ ms, 2 ms, 4 ms additionally with IRT with
	high performance: 250 μs to 4 ms in 125 μs frame
— PROFlenergy	Yes
<ul><li>— Prioritized startup</li></ul>	Yes
<ul> <li>Shared device</li> </ul>	Yes
<ul> <li>Number of IO Controllers with shared device,</li> </ul>	4
max.	
Redundancy mode	No
PROFINET system redundancy (S2)  Madia radius description	No
Media redundancy	V
— MRP	Yes
— MRPD	Yes
Open IE communication	V
• TCP/IP	Yes
• SNMP	Yes
• LLDP	Yes
Isochronous mode	
Equidistance	Yes
shortest clock pulse	125 μs
max. cycle	4 ms
Bus cycle time (TDP), min.	125 µs
Jitter, max.	0.25 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	, <b>G</b>
1 otomai separation	

between backplane bus and electronics	No
between PROFINET and all other circuits	
	Yes
between supply and all other circuits	No
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	
<ul> <li>horizontal installation, min.</li> </ul>	-25 °C; No condensation
<ul> <li>horizontal installation, max.</li> </ul>	60 °C
<ul> <li>vertical installation, min.</li> </ul>	-25 °C; No condensation
<ul> <li>vertical installation, max.</li> </ul>	50 °C
Altitude during operation relating to sea level	
<ul> <li>Installation altitude above sea level, max.</li> </ul>	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Connection method	
ET-Connection	
• via BU/BA Send	No
Dimensions	
Width	50 mm
Height	117 mm
Depth	74 mm
Weights	
Weight, approx.	147 g; without BusAdapter

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last modified: