

## Data sheet

6ES7155-6AU00-0BN0

\*\*\* Spare part \*\*\* SIMATIC ET 200SP, PROFINET interface module IM 155-6PN standard, max. 32 I/O modules, incl. server module

General information	
Product type designation	IM 155-6 PN ST
Firmware version	V3.3
Product function	
<ul style="list-style-type: none"> <li>• I&amp;M data</li> <li>• Module swapping during operation (hot swapping)</li> <li>• Isochronous mode</li> </ul>	<p>Yes; I&amp;M0 to I&amp;M3 Yes; Single hot swapping No</p>
Engineering with	
<ul style="list-style-type: none"> <li>• STEP 7 TIA Portal configurable/integrated from version</li> <li>• STEP 7 configurable/integrated from version</li> <li>• PROFINET from GSD version/GSD revision</li> </ul>	<p>V13 SP1 V5.5 SP4 and higher V2.3 / -</p>
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 style="list-style-type: none"> <li>• Mains/voltage failure stored energy time</li> </ul>	5 ms
Input current	
Current consumption, max.	450 mA
Inrush current, max.	3.7 A
$I^2t$	0.09 A <sup>2</sup> ·s
Power loss	
Power loss, typ.	1.9 W
Address area	
Address space per module	
<ul style="list-style-type: none"> <li>• Address space per module, max.</li> </ul>	256 byte; per input / output
Address space per station	
<ul style="list-style-type: none"> <li>• Address space per station, max.</li> </ul>	512 byte; Dependent on configuration
Hardware configuration	
Rack	
<ul style="list-style-type: none"> <li>• Modules per rack, max.</li> </ul>	32; + 16 ET 200AL modules
Submodules	
<ul style="list-style-type: none"> <li>• Number of submodules per station, max.</li> </ul>	256
Interfaces	
Number of PROFINET interfaces	1; 2 ports (switch)
1. Interface	
Interface types	
<ul style="list-style-type: none"> <li>• Number of ports</li> <li>• integrated switch</li> <li>• BusAdapter (PROFINET)</li> </ul>	<p>2 Yes Yes; Applicable BusAdapter: BA 2x RJ45, BA 2x FC</p>
Protocols	
<ul style="list-style-type: none"> <li>• PROFINET IO Device</li> <li>• Open IEC communication</li> <li>• Media redundancy</li> </ul>	<p>Yes Yes Yes; PROFINET MRP</p>
PROFINET IO Device	
Services	
— IRT	Yes; with send cycles of between 250 µs and 4 ms in increments of 125 µs

— PROFlenergy	Yes
— Prioritized startup	Yes
— Shared device	Yes
— Number of IO Controllers with shared device, max.	2
<b>Interface types</b>	
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
<b>Protocols</b>	
Redundancy mode	
• PROFINET system redundancy (S2)	No
Media redundancy	
— MRP	Yes
— MRPD	No
Open IE communication	
• TCP/IP	Yes
• SNMP	Yes
• LLDP	Yes
<b>Isochronous mode</b>	
Equidistance	No
<b>Interrupts/diagnostics/status information</b>	
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
<b>Potential separation</b>	
between backplane bus and electronics	No
between PROFINET and all other circuits	Yes
between supply and all other circuits	Yes
<b>Isolation</b>	
Isolation tested with	707 V DC between supply voltage and electronics; 1 500 V AC between Ethernet and electronics
<b>Standards, approvals, certificates</b>	
Network loading class	2
<b>Ambient conditions</b>	
Ambient temperature during operation	
• horizontal installation, min.	0 °C
• horizontal installation, max.	60 °C
• vertical installation, min.	0 °C
• vertical installation, max.	50 °C
<b>connection method</b>	
ET-Connection	
• via BU/BA Send	Yes; + 16 ET 200AL modules
<b>Dimensions</b>	
Width	50 mm
Height	117 mm
Depth	74 mm
<b>Weights</b>	
Weight, approx.	147 g; without BusAdapter
last modified:	10/12/2023 