

SIMATIC ET 200MP PROFINET IO-DEVICE INTERFACEMODULE  
 IM 155-5 PN FOR ET 200MP ELEKTRONIKMODULES; UP TO 12  
 IO-MODULES SHARED DEVICE UP TO 2 IO-CONTROLLER; MRP;  
 FW-UPDATE; I&M0...3;



General information	
Product type designation	IM 155-5 PN BA
HW functional status	FS01
Firmware version	V4.0.0
Vendor identification (VendorID)	0x002A
Device identifier (DeviceID)	0X0312
Product function	
<ul style="list-style-type: none"> <li>I&amp;M data</li> </ul>	Yes; I&M0 to I&M3
Engineering with	
<ul style="list-style-type: none"> <li>STEP 7 TIA Portal configurable/integrated as of version</li> </ul>	V14 with HSP 0187
<ul style="list-style-type: none"> <li>STEP 7 configurable/integrated as of version</li> </ul>	V5.5 SP3 / -
<ul style="list-style-type: none"> <li>PROFINET as of GSD version/GSD revision</li> </ul>	V2.3 / -
Configuration control	
via user data	No
via dataset	No
Supply voltage	
Type of supply voltage	DC

Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 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 5 ms

#### Input current

Current consumption (rated value)	1 A
Current consumption, max.	1.7 A
Inrush current, max.	2.8 A
$I^2t$	0.04 A <sup>2</sup> ·s

#### Power

Infeed power to the backplane bus	14 W
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#### Power loss

Power loss, typ.	3 W
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#### Address area

Address space per module	
• Address space per module, max.	64 byte; per input / output
Address space per station	
• Address space per station, max.	64 byte; per input / output

#### Hardware configuration

Integrated power supply	Yes
System power supply can be plugged in to left of IM	No
Number of permissible power segments	1

#### Rack

- Modules per rack, max. 12; I/O modules

#### Submodules

- Number of submodules per station, max. 108; 9 submodules / I/O modules

#### Interfaces

Number of PROFINET interfaces	1; 2 ports (switch) RJ45
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#### 1. Interface

Interface types	
• Number of ports	2
• integrated switch	Yes
• RJ 45 (Ethernet)	Yes
• BusAdapter (PROFINET)	No
Functionality	
• PROFINET IO Device	Yes
• Media redundancy	Yes

Interface types	
RJ 45 (Ethernet)	
<ul style="list-style-type: none"> <li>• Transmission procedure</li> <li>• 100 Mbps</li> <li>• Autonegotiation</li> <li>• Autocrossing</li> </ul>	PROFINET with 100 Mbit/s full duplex (100BASE-TX) Yes Yes Yes
Protocols	
PROFINET IO Device	
Services	
— Isochronous mode	No
— Open IE communication	Yes
— IRT	No
— MRP	Yes
— MRPD	No
— PROFINET system redundancy	No
— PROFlenergy	No
— Prioritized startup	No
— Shared device	Yes
— Number of IO Controllers with shared device, max.	2
Open IE communication	
<ul style="list-style-type: none"> <li>• TCP/IP</li> <li>• SNMP</li> <li>• LLDP</li> </ul>	Yes Yes Yes
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	No
Equidistance	No
Interrupts/diagnostics/status information	
Status indicator	Yes
Alarms	Yes
Diagnostic functions	Yes
Diagnostics indication LED	
<ul style="list-style-type: none"> <li>• RUN LED</li> <li>• ERROR LED</li> <li>• MAINT LED</li> <li>• Connection display LINK TX/RX</li> </ul>	Yes; Green LED Yes; Red LED Yes; yellow LED Yes; 2x green-yellow LEDs
Potential separation	
between backplane bus and electronics	No
between PROFINET and all other circuits	Yes

### Permissible potential difference

between different circuits Safety extra low voltage SELV

### Isolation

Isolation tested with 707 V DC (type test)

### Standards, approvals, certificates

Network loading class 2

### Ambient conditions

#### Ambient temperature during operation

- horizontal installation, min. 0 °C
- horizontal installation, max. 60 °C
- vertical installation, min. 0 °C
- vertical installation, max. 40 °C

### Dimensions

Width 35 mm

Height 147 mm

Depth 129 mm

**last modified:** 10/13/2017