



SIMATIC ET 200MP. PROFINET IO-DEVICE INTERFACEMODULE IM 155-5 PN ST FOR ET 200MP ELEKTRONIKMODULES; UP TO 12 IO-MODULES WITHOUT ADDITIONAL PS; UP TO 30 IO-MODULES WITH ADDITIONONAL PS SHARED DEVICE; MRP; IRT >=0.25MS; ISOCHRONICITY FW-UPDATE; I&M0...3; FSU WITH 500MS

Product type designation

General information

HW functional status	E01
Firmware version	V3.0.0
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 can be configured/integrated as of version</li> </ul>	V13 / V13
<ul style="list-style-type: none"> <li>STEP 7 can be configured/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 / -

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

<ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> </ul>	5 ms
--	------

Input current

Current consumption (rated value)	0.2 A
Current consumption, max.	1.2 A
Inrush current, max.	9 A
$I^2t$	0.09 A <sup>2</sup> -s

### Power

Infeed power to the backplane bus	14 W
Power available from the backplane bus	2.3 W

### Power losses

Power loss, typ.	4.5 W; Typical
------------------	----------------

### Address area

Address space per module	
• Address space per module, max.	256 byte; per input / output
Address space per station	
• Address space per station, max.	512 byte; per input / output

### Hardware configuration

System power supply can be plugged in to left of IM	Yes
Number of permissible power segments	3

### Rack

• Modules per rack, max.	30; I/O modules
--------------------------	-----------------

### Interfaces

Number of PROFINET interfaces	1
1st interface	
Interface types	
— Number of ports	2
— Integrated switch	Yes
— RJ 45 (Ethernet)	Yes
Protocols	
— PROFINET IO Device	Yes
— Media redundancy	Yes

### Interface types

RJ 45 (Ethernet)	
• 100 Mbps	Yes
• Transmission procedure	PROFINET with 100 Mbit/s full duplex (100BASE-TX)
• Autonegotiation	Yes
• Autocrossing	Yes

### Protocols

PROFINET IO	
• PROFINET IO	Yes
PROFINET IO Device	

Services	
— Isochronous mode	Yes
— IRT	Yes
— MRP	Yes
— Prioritized startup	Yes
— Shared device	Yes
— Number of IO controllers with shared device, max.	2
Open IE communication	
• TCP/IP	Yes
• SNMP	Yes
• LLDP	Yes
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	Yes
equidistance	Yes
shortest clock pulse	250 $\mu$ s
max. cycle	4 ms
Interrupts/diagnostics/status information	
Status indicator	Yes
Alarms	
• Alarms	Yes
Diagnostic messages	
• Diagnostic functions	Yes
Diagnostics indication LED	
• RUN LED	Yes; Green LED
• ERROR LED	Yes; Red LED
• MAINT LED	Yes; yellow LED
• Connection display LINK TX/RX	Yes; yellow LED
Potential separation	
between backplane bus and electronics	No
between PROFINET and all other circuits	Yes
between supply and all other circuits	No
Permissible potential difference	
between different circuits	75 V DC/60 V AC (base isolation)
Isolation	
Isolation checked with	707 V DC (type test)
Dimensions	
Width	35 mm
Height	147 mm

Depth	129 mm
-------	--------

**Weights**

Weight, approx.	310 g
-----------------	-------

**last modified:** 20.04.2015