



SIMATIC ET 200MP. PROFINET IO-DEVICE INTERFACEMODULE IM 155-5 PN HF 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; FAST STARTUP S2 REDUNDANCY; SHARED DEV. WITH 4 CONTROLLER

Product type designation

General information

HW functional status	E01
Firmware version	V1.0.0
Vendor identification (VendorID)	002AH
Device identifier (DeviceID)	0X0312

Product function

<ul style="list-style-type: none"> I&M data 	Yes; I&M0 to I&M3
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Engineering with

<ul style="list-style-type: none"> STEP 7 TIA Portal can be configured/integrated as of version 	V13 / V13
<ul style="list-style-type: none"> STEP 7 can be configured/integrated as of version 	V5.5 SP3 / -
<ul style="list-style-type: none"> PROFINET as of GSD version/GSD revision 	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"> Mains/voltage failure stored energy time 	5 ms
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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 ² -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
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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
Integrated power supply	Yes

Rack

• Modules per rack, max.	30; I/O modules
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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)	
• 10 Mbps	No
• 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
— MRPD	Yes
— PROFINET system redundancy	Yes
— Prioritized startup	Yes
— Shared device	Yes
— Number of IO controllers with shared device, max.	4
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 µs
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
Galvanic isolation	
between backplane bus and electronics	No
between PROFINET and all other circuits	Yes; 1500 V AC
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.	350 g
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