



SIMATIC ET 200MP. PROFINET IO device Interface module IM 155-5 PN HF, for ET 200MP electronic modules; up to 12 IO modules without PS; up to 30 IO modules with additional PS; Integrated 2-port switch; RJ45 shared device; MRP; IRT ≥ 0.25 ms; Isochronous mode FW update; I&M0...3; prioritized startup, S2 redundancy; shared device with 4 controllers

General information	
Product type designation	IM 155-5 PN HF
HW functional status	FS01
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
Engineering with	
<ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated as of version 	V13 / V13
<ul style="list-style-type: none"> STEP 7 configurable/integrated as of version 	V5.5 SP3 / -
<ul style="list-style-type: none"> PROFINET as of GSD version/GSD revision 	V2.3 / -
Configuration control	
via user data	No
via dataset	Yes
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)	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 loss

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

Integrated power supply	Yes
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
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1. Interface

Interface types	
• Number of ports	2
• integrated switch	Yes
• RJ 45 (Ethernet)	Yes

Functionality

- PROFINET IO Device Yes
- Media redundancy Yes; PROFINET MRP

Interface types

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

Protocols

PROFINET IO Device

Services

— Isochronous mode	Yes
— IRT	Yes
— PROFINergy	No
— Prioritized startup	Yes
— Shared device	Yes
— Number of IO Controllers with shared device, max.	4

Redundancy mode

— MRP	Yes
— MRPD	No
— PROFINET system redundancy (S2)	Yes

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	Yes
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; 1500 V AC

between supply and all other circuits	No
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Isolation

Isolation tested with	707 V DC (type test)
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Ambient conditions

Ambient temperature during operation

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

Connection method

ET-Connection

- | | |
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| • via BU/BA Send | No |
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Dimensions

Width	35 mm
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Height	147 mm
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Depth	129 mm
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Weights

Weight, approx.	350 g
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last modified:	01/29/2018
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