

SIMATIC ET 200SP, MultiFieldbus, 2-port interface module, IM 155-6MF High Feature, PN IO, Ethernet IP, Modbus TCP, 1 slot for BusAdapter, max. 64 I/O modules and 16 ET 200AL modules, multi-hot swap, optional cable grip, including server module



General information

Product type designation	IM 155-6 MF HF with server module
Firmware version	V5.0.3
<ul style="list-style-type: none"> FW update possible 	Yes
Vendor identification (VendorID)	002AH
Device identifier (DeviceID)	0313H
Manufacturer ID according to ODVA (VendorID)	04E3H
Device ID according to ODVA (Product code)	0FA2H
Number of MtM communication relationships/connections, max.	16

Product function

<ul style="list-style-type: none"> I&M data 	Yes; I&M0 to I&M3
<ul style="list-style-type: none"> Module swapping during operation (hot swapping) 	Yes; Multi-hot swapping
<ul style="list-style-type: none"> Isochronous mode 	No
<ul style="list-style-type: none"> Tool changer 	Yes; Docking station and docking unit
<ul style="list-style-type: none"> Local coupling, IO data 	No
<ul style="list-style-type: none"> Local coupling, data records 	No

Engineering with

- STEP 7 TIA Portal configurable/integrated as of version STEP 7 V16 or higher
- STEP 7 configurable/integrated as of version Configurable via GSD file
- PROFINET as of GSD version/GSD revision GSDML V2.3
- Multi Fieldbus Configuration Tool (MFCT) V1.0 Update 2

Configuration control

via user data	Yes
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

- Mains/voltage failure stored energy time 10 ms

Input current

Current consumption, max.	700 mA
Inrush current, max.	4.5 A
I^2t	0.25 A ² ·s

Power loss

Power loss, typ.	2.4 W
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Address area

Address space per module	
• Address space per module, max.	288 byte; For input and output data respectively
Address space per station	
• Address space per station, max.	1 440 byte; Dependent on configuration

Hardware configuration

Rack	
• Modules per rack, max.	64; + 16 ET 200AL modules
Submodules	
• Number of submodules per station, max.	256

Interfaces

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

Interface types	
• Number of ports	2; via BusAdapter
• integrated switch	Yes
• BusAdapter (PROFINET)	Yes; Applicable BusAdapter: BA 2x RJ45, BA 2x FC

Protocols	
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- PROFINET IO Device Yes
- Open IE communication Yes

Interface types

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

Protocols

Modbus TCP Yes

PROFINET IO Device

Services

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

Redundancy mode

- PROFINET system redundancy (S2) Yes
 - on S7-1500R/H Yes
 - on S7-400H Yes
- Redundant PROFINET configuration (R1) No
- H-Sync forwarding Yes

Media redundancy

- MRP Yes
- MRPD No

Open IE communication

- TCP/IP Yes
- UDP Yes
- SNMP Yes
- LLDP Yes
- ARP Yes
- IGMP Yes
- Multicast Yes
- Broadcast Yes
- IPv4 Yes
- IPv6 No

Interrupts/diagnostics/status information

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
• NS LED	Yes; green/red LED
• MS LED	Yes; green/red LED
• IO LED	Yes; red-green-yellow LED
• Connection display LINK TX/RX	Yes; 2x green link LEDs on BusAdapter
Potential separation	
between backplane bus and electronics	No
between PROFINET and all other circuits	Yes
between supply and all other circuits	No
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Network loading class	3
Security level	According to Security Level 1 Test Cases V1.1.1
Ambient conditions	
Ambient temperature during operation	
• horizontal installation, min.	-30 °C; No condensation
• horizontal installation, max.	60 °C
• vertical installation, min.	-30 °C; No condensation
• vertical installation, max.	50 °C
Altitude during operation relating to sea level	
• Installation altitude above sea level, max.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Connection method	
ET-Connection	
• via BU/BA Send	Yes; + 16 ET 200AL modules
Mechanics/material	
Strain relief	Yes; Optional
Dimensions	
Width	50 mm
Height	117 mm
Depth	74 mm

Weights

Weight, approx.

120 g; without BusAdapter

last modified:

05/13/2020