MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Selected official pages for procurement and maintenance review

PRODUCT BRAND

Siemens

PRODUCT MODEL

6ES7155-5MU00-0CN0

MultiFieldbus High Feature Interface. Source PDF pages: MM pp. 1-2,6,12-20,94-99; AB pp. 1-2,13. Adjacent model text on shared pages is outside this product reference.

OFFICIAL SOURCE

Interface module IM 155-5 MF HF (6ES7155-5MU00-0CN0); 11/2025

Siemens original documentation and product reference

Siemens 11/2024; AB source pp. 1-2,13

AMIKON PRODUCT SUPPORT

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Amikon Limited prepared this independent reference package. Selected manufacturer pages follow with their original content and pagination visible.

SIEMENS

SIMATIC

ET 200MP
Interface module IM 155-5 MF HF (6ES7155-5MU00-0CN0)

Equipment Manual

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Legal information

Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

⚠ DANGER

indicates that death or severe personal injury **will** result if proper precautions are not taken.

⚠ WARNING

indicates that death or severe personal injury **may** result if proper precautions are not taken.

⚠ CAUTION

indicates that minor personal injury can result if proper precautions are not taken.

NOTICE

indicates that property damage can result if proper precautions are not taken.

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified Personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified persons are those who, because of their training and experience, are familiar with the installation, assembly, commissioning, operation, decommissioning and disassembly of the product and can recognize risks and avoid possible hazards.

Proper use of Siemens products

Note the following:

⚠ WARNING

Siemens products may only be used for the application described in the catalog and the associated usage information. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.

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Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

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Introduction

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Purpose of the documentation

This manual supplements the system manual S7-1500, ET 200MP Automation system (https://support.industry.siemens.com/cs/ww/en/view/59191792). Functions that generally relate to the system are described in this manual.

The information provided in this manual and in the system/function manuals supports you in commissioning the system.

Conventions

Please also observe notes labeled as follows:

NOTE

A note contains important information on the product described in the documentation, on the handling of the product, or on the section of the documentation to which particular attention should be paid.

Recycling and disposal

For environmentally friendly recycling and disposal of your old equipment, contact a certified electronic waste disposal company and dispose of the equipment according to the applicable regulations in your country.

ID link for the digital nameplate



The ID link is a globally unique identifier according to IEC 61406-1, which you will find in the future as a QR code on your product.

The figure shows an example of an ID link for the interface module IM 155-5 MF HF.

You can recognize the ID link by the frame with a black corner at the bottom right. The ID link takes you to the digital nameplate of your product.

Industrial cybersecurity 2

2.1 Introduction to industrial cybersecurity

Due to the digitalization and increasing networking of machines and industrial plants, the risk of cyber attacks is also growing. Appropriate protective measures are therefore mandatory, particularly in the case of critical infrastructure facilities.

Refer to the SIMATIC S7-1500/ET 200MP automation system (https://support.industry.siemens.com/cs/ww/en/view/59191792) System Manual for general information and measures regarding industrial cybersecurity.

This section provides an overview of security-relevant information pertaining to your SIEMENS device.

2.2 Cybersecurity information

Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place.

For additional information on industrial cybersecurity measures that may be implemented, please visit
https://www.siemens.com/cybersecurity-industry.

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under
https://new.siemens.com/cert.

2.3 Cybersecurity-relevant information

Observe all cybersecurity-relevant information.

Topics with cybersecurity-relevant information	Reference
Operational application environment and security assumptions	
Requirements for the operational application environment of the system and security assumptions	This section is found in the System Manual (https://support.industry.siemens.com/cs/ww/en/view/59191792).
Security properties of the product	
Access protection	Note the information on the topic of access protection in the "Protection" section of the System Manual (https://support.industry.siemens.com/cs/ww/en/view/59191792).
Data integrity	The topic of data integrity is described in the "Industrial cybersecurity" section of the System Manual (https://support.industry.siemens.com/cs/ww/en/view/59191792).
Signed firmware update	The topic of signed firmware updates is described in the "Industrial cybersecurity" section of the System Manual (https://support.industry.siemens.com/cs/ww/en/view/59191792).
Secure Boot	The topic of secure boot is described in the "Industrial cybersecurity" section of the System Manual (https://support.industry.siemens.com/cs/ww/en/view/59191792).
PROFINET Security Class 1 • The device supports PROFINET Security Class 1. • With the introduction of PROFINET Security Class 1, additional security settings have been integrated into the PROFINET communication.	Detailed information about PROFINET Security Class 1 and the additional security settings can be found in the PROFINET with STEP 7 Function Manual (https://support.industry.siemens.com/cs/us/en/view/49948856)
Supported Ethernet services	You can find information on supported services in the Technical specifications (Page 96) section. You can find detailed information on supported Ethernet services in the Communication Function Manual (https://support.industry.siemens.com/cs/us/en/view/59192925).
Interfaces, ports, protocols and services	
Information on the following is security-relevant: • Communication layer and communication role • Default states • Enabling/disabling of ports and services	You can find detailed information on these topics in the Communication Function Manual (https://support.industry.siemens.com/cs/us/en/view/59192925).
Secure operation	
Recommendations for safe operation	Cross-system information on the safe operation of interface modules can be found in the System Manual (https://support.industry.siemens.com/cs/ww/en/view/59191792).

Topics with cybersecurity-relevant information	**Reference**
Corrective measures for known risks	Corrective measures for known risks are announced on the Siemens ProductCERT and Siemens CERT (https://siemens.com/productcert) web page. For more information on SIEMENS ProductCERT, refer to the System Manual (https://support.industry.siemens.com/cs/ww/en/view/59191792).
Security checks	Application-specific security measures such as cyclic checks of the configuration via checksums are described in the "Industrial cybersecurity" section of the System Manual (https://support.industry.siemens.com/cs/ww/en/view/59191792).
Secure decommissioning Products that contain security-relevant data must be securely decommissioned before disposal or resale.	Information on secure decommissioning can be found in the "Safe operation of the system" section of the System Manual (https://support.industry.siemens.com/cs/ww/en/view/59191792).

Product overview

3

3.1 Properties

Article number

6ES7155-5MU00-0CN0

View of the module

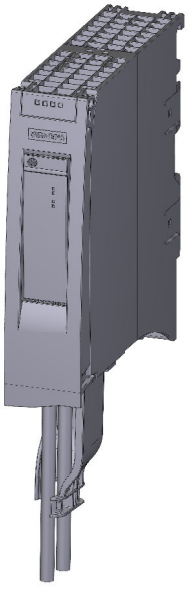


Figure 3-1 View of the IM 155-5 MF HF interface module

Advantages

- The interface module supports multiple fieldbus protocols.
  - PROFINET IO
  - EtherNet/IP
  - Modbus TCP
- Functionally compatible with the 155-5 PN HF interface module (except for prioritized startup; isochronous mode must be reconfigured)
- I/O system The system benefits of the ET 200MP distributed I/O system can also be used with the EtherNet/IP and Modbus TCP fieldbus protocols:
  - MF Shared Device: The fieldbus can be selected for each submodule.
  - Highest channel density
  - Comprehensive range of modules (see "Applicable modules with EtherNet/IP (Page 47)" and "Applicable modules with Modbus TCP (Page 64)" sections)
  - Multi hot swapping on the active backplane bus
  - Dynamic reconfiguration of the modules on the active backplane bus via the user program
- No system change or replacement of the I/O interface module is required when using different controllers.

  (series machine manufacturers with end users in various regions around the world)
- Use of different fieldbus protocols is possible depending on the region and application.

Properties

The module has the following technical properties:

- Connects the ET 200MP distributed I/O system with
  - PROFINET IO
  - EtherNet/IP
  - Modbus TCP
- 24 V DC supply voltage (SELV/PELV)
- Fieldbus connection via selectable BusAdapters
  - BA 2×RJ45 for RJ45 bus connector
  - BA 2×FC for direct connection of the bus cable
  - BA 2xM12 for bus cable with M12 plug
- Supported topologies
  - Linear bus topology
  - Star topology
  - Tree topology
- Pulling and plugging I/O modules on the active backplane bus (multi hot swapping)
- You can find more information in the Active backplane bus (https://support.industry.siemens.com/cs/ww/en/view/109769815) Equipment Manual.

You can find information on the functions supported by the module here:

- PROFINET IO functions (Page 21)
- EtherNet/IP functions (Page 46)
- Modbus TCP functions (Page 62)

Active backplane bus maximum configuration

- The integrated power supply of the interface module feeds 16 W into the backplane bus. Up to 12 I/O modules can be supplied in this way when operating with an active backplane bus. The exact number of operable modules is determined by the power budget calculation (see relevant section in the S7-1500/ET 200MP Automation system (https://support.industry.siemens.com/cs/ww/en/view/59191792) System Manual).

U-connector setup maximum configuration

- A maximum of one power supply module (PS) upstream from the interface module and two downstream from the interface module is possible.
- If you use a power supply module (PS) upstream from the interface module, the maximum possible configuration is a total of 32 modules (up to 30 modules downstream from the interface module).

Maximum amount of I/O data (PROFINET IO)

Maximum amount of I/O data

The sum of the gross data for all I/O controllers for input and output data must not exceed the following value:

- 5760 bytes

NOTE

With system redundancy S2, the I/O data lengths used for the H system must be included twice in the calculation of the maximum amount of I/O data.

When using the TIA Portal, the maximum net data length is calculated automatically.

The following data and calculations apply equally to input and output data.

Maximum gross data length:

- 1440 bytes per IO controller (independent of the S2 system redundancy)

Maximum net data length without calculation:

The following net data lengths can be used without explicit calculation of the maximum net data length:

- 932 bytes per IO controller (independent of the S2 system redundancy)

Maximum net data length with calculation:
The number of maximum net data lengths for input and output data depends on the number and type of I/O modules used:

Maximum gross data length

- Number of I/O submodules (without payload, input or output data)
- Number of I/O modules (input and output data)
- 4 bytes for interface module
- 1 byte for active backplane bus

Accessories

You order the following accessories separately:

- BusAdapter BA 2×RJ45 (6ES7193-6AR00-0AA0)
  (https://support.industry.siemens.com/cs/ww/en/pv/6ES7193-6AR00-0AA0/pi?dl=en)
- BusAdapter BA 2×FC (6ES7193-6AF00-0AA0)
  (https://support.industry.siemens.com/cs/ww/en/pv/6ES7193-6AF00-0AA0/pi?dl=en)
- BusAdapter BA 2xM12 (6ES7193-6AM00-0AA0)
  (https://support.industry.siemens.com/cs/ww/en/pv/6ES7193-6AM00-0AA0/pi?dl=en)
- Strain relief for PROFINET cable (6ES7590-5DA00-0AA0)
  (https://support.industry.siemens.com/cs/ww/en/pv/6ES7590-5DA00-0AA0/pi?dl=en)

Information on the BusAdapters is available in the BusAdapter (https://support.industry.siemens.com/cs/ww/en/view/109751716) Equipment Manual.

For more information on accessories, refer to the S7-1500/ET 200MP Automation system (https://support.industry.siemens.com/cs/ww/en/view/59191792) System Manual.

See also

24 V DC connector
(https://support.industry.siemens.com/cs/ww/en/pv/6ES7193-4JB50-0AA0/pi?dl=en)

3.2 MultiFieldbus engineering

MultiFieldbus Configuration Tool (MFCT)

The configuration and parameter assignment of the IM 155-5 MF HF interface module is created and downloaded with MFCT. The configuration is stored retentively in the interface module.

MFCT creates and makes available the following files:

- User Defined Data Types (UDT) file (file extension *.l5x), enables structured access to I/O data with Ethernet/IP.
- Electronic Data Sheet (EDS) according to CIP Specification Vol. 1 for integration into EtherNet/IP configuration systems. You can export the EDS file as follows:
  - Transfer your configuration from the MFCT project to your MF device.
  - Copy the "EDS" folder directly from the supplied MFCT_V**.zip file.
- Comma Separated Values (CSV), contains the I/O data mapping of your configuration

You can find more information on the MFCT in the MultiFieldbus Configuration Tool (MFCT) Configuration Manual (https://support.industry.siemens.com/cs/us/en/view/109962951).

3.3 Detect active fieldbus

For exclusive operation on a fieldbus (not MF Shared Device) you can recognize the active fieldbus by the number of green LEDs on the MF Device.

This requires that there are no errors and that the MF Device is in cyclic data exchange with a controller.

Active fieldbus:	RN/NS	ER/MS	MT/IO
PROFINET	Green	Off	Off
Modbus TCP	Green	Green	Off
EtherNet/IP	Green	Green	Green

3.4 Compatibility and limitations

Non-supported functions compared to IM 155-5 PN HF

- No prioritized startup
- No support for I&M4 data for use by the user

Restrictions on compatibility with IM 155-5 PN HF in regard to spare parts

You can replace a IM 155-5 PN HF with the firmware ≤ V4.4 with an IM 155-5 MF HF >=V5.0 without updating the configuration. In this case, the following restrictions apply:

- The BA2xRJ45 BusAdapter must be plugged in. Other BusAdapters are not compatible
- Isochronous real-time communication (IRT) must not be configured
- The device must be reconfigured as IM 155-5 MF HF for isochronous mode.
- Prioritized startup lasts significantly longer due to Secure Boot
- No support for I&M4 data for use by the user
- Possible restriction in case of topological configuration. You can find more information in the next section. In the case of unsuitably configured cable lengths, you receive the "Cable length mismatch" diagnostics.

There may be limitations of the industrial cybersecurity functions.

Workaround for topological configuration

If you receive the "Cable length mismatch" diagnosis, perform the following workaround:

1. Accept the diagnosis. If you cannot accept the diagnosis, continue with step 2.
2. Deselect the diagnosis in your engineering system. Alternatively, perform step 3.
3. Replace the IM 155-5 PN HF with an IM 155-5 MF HF V5.0 in the configuration.

Technical specifications

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Technical specifications of the IM 155-5 MF HF

The following table shows the technical specifications as of 11/2025. You will find a data sheet including daily updated technical specifications on the Internet (https://support.industry.siemens.com/cs/us/en/pv/6ES7155-5MU00-0CN0/td?dl=en).

Article number	6ES7155-5MU00-0CN0
General information	
Product type designation	IM 155-5 MF HF
HW functional status	from FS01
Firmware version	V5.3.1
• FW update possible	Yes
Vendor identification (VendorID)	002AH
Device identifier (DeviceID)	0312H
Manufacturer ID according to ODVA (VendorID)	0x04E3
Device ID according to ODVA (Product code)	0x0FA3
Product function	
• I&M data	Yes; I&M0 to I&M4
• Module swapping during operation (hot swapping)	Yes; In combination with active backplane bus
• Isochronous mode	Yes
• IRT	Yes
• Tool changer	Yes; Docking station
• Local coupling, IO data	Yes
– Number of coupling modules	6; 1x MSO local output + max. 5x MSO local input
Engineering with	
• STEP 7 configurable/integrated from version	use GSD file
• PROFINET from GSD version/GSD revision	GSDML V2.45
Configuration control	
via dataset	Yes
CiR - Configuration in RUN	
Reparameterization possible in RUN	Yes
reconfiguration possible in RUN	Yes; add IO device only
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V

Article number	6ES7155-5MU00-0CN0
Reverse polarity protection	Yes
Short-circuit protection	Yes
Mains buffering	
• Mains/voltage failure stored energy time	10 ms
Input current	
Current consumption (rated value)	0.16 A; at 24 V DC and without load
Current consumption, max.	1.2 A
Inrush current, max.	13 A
I^2t	0.1 $A^2 \cdot s$
Power	
Infeed power to the backplane bus	16 W
Power consumption from the backplane bus	3.4 W; in case of operation with separate system power supply to the left of IM
Power loss	
Power loss, typ.	4.3 W
Address area	
Address space per module	
• Address space per module, max.	256 byte; For input and output data respectively
Address space per station	
• Address space per station, max.	1 440 byte; For input and output data respectively
Hardware configuration	
Integrated power supply	Yes; 16 W
System power supply can be plugged in to left of IM	Yes; only with design with U-connectors
Number of permissible power segments	3; incl. interface module
Rack	
• Modules per rack, max.	30; I/O modules
Submodules	
• Number of submodules per station, max.	256; 9 per I/O module
Interfaces	
Number of PROFINET interfaces	1; 2 ports (switch)
1. Interface	
Interface types	
• RJ 45 (Ethernet)	Yes; with BusAdapter
• Number of ports	2; with BusAdapter
• integrated switch	Yes
• BusAdapter (PROFINET)	Yes; BA 2x RJ45, BA 2x FC, BA 2x M12
Protocols	
• PROFINET IO Device	Yes
• Open IE communication	Yes
• Media redundancy	Yes; PROFINET MRP client / HRP client

Article number	6ES7155-5MU00-0CN0
PROFINET IO Device	
Services	
– IRT	Yes; 250 µs to 4 ms in 125 µs frame
– PROFIenergy	No
– Prioritized startup	No
– Shared device	Yes
– Number of IO Controllers with shared device, max.	4; for multi-fieldbus mixed operation: 2x PN controller + 2x EtherNet/IP scanner + 10x Modbus TCP master
Interface types	
RJ 45 (Ethernet)	
• Transmission procedure	PROFINET with 100 Mbit/s full duplex (100BASE-TX)
• 100 Mbps	Yes
• Autonegotiation	Yes
• Autocrossing	Yes
Protocols	
Supports protocol for PROFINET IO	Yes
PROFIsafe	Yes
PROFIBUS	No
EtherNet/IP	Yes
Modbus TCP	Yes
Redundancy mode	
• PROFINET system redundancy (S2)	Yes; NAP S2
– on S7-1500R/H	Yes
– on S7-400H	Yes; use GSD file
• PROFINET system redundancy (R1)	No
• H-Sync forwarding	Yes
Media redundancy	
– MRP	Yes
– MRPD	Yes
EtherNet/IP	
Services	
– CIP Implicit Messaging	Yes
– CIP Explicit Messaging	Yes
– CIP Safety	No
– Configuration control via Explicit Messaging	No
– Shared device	Yes; for multi-fieldbus mixed operation: 2x PN controller + 2x EtherNet/IP scanner + 10x Modbus TCP master

Article number	6ES7155-5MU00-0CN0
– Number of scanners with shared device, max.	2
Updating times	
– Requested Packet Interval (RPI)	2 ms
Address area	
– Address space per module, max.	256 byte; 246 byte outputs / 256 byte inputs
– ForwardOpen (Class1 & 32 bit Header)	500 byte; (246 byte outputs / 500 byte inputs)
– LargeForwardOpen (Class3)	4 002 byte
Connections	
– Number of rack connections	2
Modbus TCP	
Services	
– read coils (code=1)	Yes
– read discrete inputs (code=2)	Yes
– Read Holding Registers (Code=3)	Yes
– write single coil (code=5)	Yes
– write multiple coils (code=15)	Yes
– Write Multiple Registers (Code=16)	Yes
– Parameter change by master	Yes
– Modbus TCP Security Protocol	No
Address space per station	
– Address space per station, max.	500 byte; (246 byte outputs / 500 byte inputs)
– Access-consistent address space	250 byte; (246 byte outputs / 250 byte inputs)
Updating time	
– I/O request interval	2 ms
Connections	
– number of connections per device	9; (1x inputs / 2x outputs / 4x volatile registers / 2x Device Info)
Open IE communication	
• TCP/IP	Yes
• UDP	Yes
• SNMP	Yes
• LLDP	Yes
• ARP	Yes
• IGMP	Yes
• Multicast	Yes
• Broadcast	Yes
• IPv4	Yes
• IPv6	No

Article number	6ES7155-5MU00-0CN0
Isochronous mode	
Equidistance	Yes
shortest clock pulse	250 µs
max. cycle	4 ms
Bus cycle time (TDP), min.	250 µs
Jitter, max.	1 µs
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
• 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 LEDs on BusAdapter
Potential separation	
between backplane bus and electronics	No
between PROFINET and all other circuits	Yes; 1500 V AC (type test)
between supply and all other circuits	No
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	3
product functions / security / header	
PROFINET Security Class	1
signed firmware update	Yes
Secure Boot	Yes
safely removing data	Yes
data integrity	Yes
Ambient conditions	
Ambient temperature during operation	
• horizontal installation, min.	-30 °C
• horizontal installation, max.	60 °C
• vertical installation, min.	-30 °C
• vertical installation, max.	40 °C

Article number	6ES7155-5MU00-0CN0
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	No
Mechanics/material	
Strain relief	Yes; Optional
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	260 g; without BusAdapter

SIEMENS

SIMATIC

S7-1500H, ET 200MP Active backplane bus ST 1+12 slot, active backplane bus ST 1+8 slot, active backplane bus ST 1+4 slot

Equipment Manual

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Legal information

Warning notice system

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Proper use of Siemens products

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We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

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Properties

The active backplane bus can be used for ET 200MP with:

Designation	Article number	As of hardware functional status	As of firmware version
IM 155-5 PN HF	6ES7155-5AA00-0AC0	FS01	V4.4
IM 155-5 MF HF	6ES7155-5MU00-0CN0	FS01	V5.0
Digital input modules DI and F-DI	See List of I/O modules ET 200MP (Page 35)		
Digital output modules DQ and F-DQ			
Analog input modules AI			
Analog output modules AQ			
System power supply			
Technology modules			
Communications modules			

The active backplane bus can be used for S7-1500H with:

Designation	Article number	As of hardware functional status	As of firmware version
CPU 1517H-3 PN	6ES7517-3HP00-0AB0	FS01	V3.1
CPU 1517H-4 PN	6ES7517-4HQ10-0AB0	FS01	V4.0
CPU 1518HF-4 PN	6ES7518-4JP00-0AB0	FS01	V3.1
	6ES7518-4JT10-0AB0	FS01	V4.0
CP 1543-1 communications module	6GK7543-1AX00-0XE0		V3.0
System power supply	See List of I/O modules S7-1500H (Page 34)		

The active backplane bus supports:

- Identification data I&M0 to 3
- Firmware update
- Prioritized startup (only applies for ET 200MP)

The following restriction applies for operating the ET 200MP with the active backplane bus

Pulling and plugging during operation (hotswap) cannot be performed in isochronous mode.

If any I/O module is plugged or unplugged in a station configured for isochronous mode, the connection to the controller is re-established and the I/O modules are temporarily inaccessible.