Siemens 6ES7153-1AA03-0XB0

Complete Product Information

Siemens 6ES7153-1AA03-0XB0 is an IM 153-1 PROFIBUS DP interface for ET 200M, linking up to eight S7-300 I/O modules to the DP network.

Operating context

The interface receives 24 V DC over a permitted 20.4-28.8 V range. Maximum consumption is 350 mA at 24 V, and the backplane supply provides 5 V DC at up to 1 A. The station power budget must include the fitted I/O modules and their separate field supplies.

PROFIBUS DP uses an RS 485 interface with a 9-pin Sub-D socket and automatic baud-rate detection up to 12 Mbit/s. Permitted station addresses are 1-125. SYNC and FREEZE are supported; the direct-data-exchange role is sender.

The station accepts up to eight S7-300 modules. Input and output address space is 128 bytes each per module. STEP 7, COM PROFIBUS or a third-party master using the corresponding GSD can configure the station. IP20 protection and orientation-dependent temperature limits apply.

Configuration snapshot

Product type	IM 153-1 DP ST
System	SIMATIC ET 200M
Module capacity	Up to 8 S7-300 modules
Rated supply	24 V DC
Supply range	20.4-28.8 V DC
Current consumption	350 mA maximum at 24 V DC
Backplane output	5 V DC; 1 A maximum

02 Technical configuration and interfaces

Communication	PROFIBUS DP; RS 485
Transmission rate	Up to 12 Mbit/s; automatic detection
Connector	9-pin Sub-D socket
DP address	1-125
Power loss	3 W typical
Ingress protection	IP20
Operating temperature	0-60 °C horizontal; 0-40 °C vertical

System and configuration relationships

System relationship

An ET 200M station uses the IM 153-1 as its network head; module order and address allocation remain part of the installed DP configuration.

Configuration boundary

The operating range is 0-60 °C horizontally and 0-40 °C vertically. The enclosure rating is IP20.

Offered reference	6ES7153-1AA03-0XB0
Technical scope	Technical values apply to the complete 6ES7153-1AA03-0XB0 execution. Retain the actual installed configuration and applicable Siemens instructions.

03 Applications and precautions

Application context

Remote ET 200M I/O

Use the IM 153-1 as the PROFIBUS head of an ET 200M station. Keep the S7-300 I/O order aligned with the configured station.

PROFIBUS machine networks

Integrate the station into an RS 485 DP segment. Retain the master configuration, station address and applicable SYNC or FREEZE requirements.

Station power planning

Plan the interface supply and the I/O backplane budget together. Keep field-load power requirements separate from the interface backplane output.

Installed-station service

Match the complete interface reference during an ET 200M replacement. Preserve address allocation, bus termination and the orientation-dependent cabinet temperature limits.

Commissioning precautions

Preserve module capacity

The ET 200M station accepts up to eight S7-300 modules. Retain their configured order and address allocation.

Check the DC supply

The nominal supply is 24 V DC, with a permitted range of 20.4-28.8 V DC.

Use the DP interface

The network interface uses PROFIBUS DP over RS 485 with a 9-pin Sub-D socket; TCP/IP is not supported.

Verify the bus rate

The interface automatically detects the PROFIBUS transmission rate, up to 12 Mbit/s. All devices and cabling must meet the installed segment requirements.

Budget backplane power

The backplane output is 5 V DC at up to 1 A. Check the I/O-module power budget separately from field-load power.

Retain the DP address

The DP station address can be set within 1-125. Preserve the configured address to avoid changing master-to-station mapping.

04 Engineering questions

How many S7-300 modules can 6ES7153-1AA03-0XB0 connect?

The ET 200M station accepts up to eight S7-300 modules. Retain their configured order and address allocation.

Which supply range applies to 6ES7153-1AA03-0XB0?

The nominal supply is 24 V DC, with a permitted range of 20.4-28.8 V DC.

Does 6ES7153-1AA03-0XB0 use Ethernet for its DP connection?

No. The network interface uses PROFIBUS DP over RS 485 with a 9-pin Sub-D socket; TCP/IP is not supported.

How is the baud rate selected on 6ES7153-1AA03-0XB0?

The interface automatically detects the PROFIBUS transmission rate, up to 12 Mbit/s. All devices and cabling must meet the installed segment requirements.

What backplane power does 6ES7153-1AA03-0XB0 provide?

The backplane output is 5 V DC at up to 1 A. Check the I/O-module power budget separately from field-load power.

Which station addresses are permitted for 6ES7153-1AA03-0XB0?

The DP station address can be set within 1-125. Preserve the configured address to avoid changing master-to-station mapping.

Can 6ES7153-1AA03-0XB0 participate in SYNC and FREEZE?

Yes. SYNC and FREEZE are supported, and direct slave-to-slave data exchange is supported in the sender role.

How does mounting orientation affect 6ES7153-1AA03-0XB0?

The operating range is 0-60 °C horizontally and 0-40 °C vertically. The enclosure rating is IP20.

05 Lifecycle and offered-unit information

Lifecycle status

6ES7153-1AA03-0XB0: The product is in the manufacturer product-cancellation stage and designated for replacement-part support.

Support and replacement: Confirm current service and replacement guidance with Siemens using the complete marking, hardware revision and installed configuration.

Availability: Apter Power supply availability is confirmed separately from manufacturer lifecycle and support status.

Explore other Siemens references

Portfolio navigation only; no compatibility or substitution is implied.

Siemens 6ES7592-1BM00-0XA0	View product
Siemens 6ES7522-1BH00-0AB0	View product
Siemens 6ES7136-6DB00-0CA0	View product

Available unit details

Offered reference: Siemens 6ES7153-1AA03-0XB0. Condition: New, original product.

Identity check: Technical values apply to the complete 6ES7153-1AA03-0XB0 execution. Retain the actual installed configuration and applicable Siemens instructions.

Included items: Confirm the interface module, bus connector, bus modules and field connectors in the quotation.

Technical reference

Siemens 6ES7153-1AA03-0XB0 Data Sheet

Discuss your complete reference

Siemens 6ES7153-1AA03-0XB0

New, original product

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