

INDUSTRIAL AUTOMATION PRODUCT

6ES7153-2AA02-0XB0

SIMATIC ET 200M IM 153-2 DP Interface Module

Siemens 6ES7153-2AA02-0XB0 is an IM 153-2 interface module for the SIMATIC ET 200M distributed I/O device. It links S7-300 signal modules to a PROFIBUS DP master for cyclic process-data exchange.

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SIMATIC ET 200M distributed I/O
Part number	6ES7153-2AA02-0XB0
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Siemens product record.

PARAMETER	TECHNICAL VALUE
Interface designation	IM 153-2
Distributed I/O family	ET 200M
Fieldbus	PROFIBUS DP
Redundancy modes	Software redundancy; System Redundancy (SR)
GSD redundant mode	DPV0
GSD revision	5
Active bus module options	6ES7195-7HD10-0XA0; 6ES7195-7HD80-0XA0
Dual-interface bus module	BM IM/IM
Supported H-system host	SIMATIC S7-400H
Order number	6ES7153-2AA02-0XB0

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	ET 200M active bus module
Companion hardware	S7-300 digital or analog signal modules
Field connection	PROFIBUS DP master
Primary system function	Operates S7-300 signal modules as an ET 200M DP slave
Controlled acceptance duty	ET 200M remote I/O stations

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System Role and Architecture

Siemens 6ES7153-2AA02-0XB0 is an IM 153-2 interface module for the SIMATIC ET 200M distributed I/O device. It links S7-300 signal modules to a PROFIBUS DP master for cyclic process-data exchange.

FUNCTION 1

Operates S7-300 signal modules as an ET 200M DP slave

FUNCTION 2

Exchanges cyclic I/O data with a PROFIBUS DP master

FUNCTION 3

Supports software and system redundancy arrangements

FUNCTION 4

Provides a defined interface position for distributed I/O commissioning

Matched system components

- ET 200M active bus module
- S7-300 digital or analog signal modules
- PROFIBUS DP master
- STEP 7 project with the applicable GSD

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	ET 200M active bus module
Companion hardware	S7-300 digital or analog signal modules
Field connection	PROFIBUS DP master
Primary system function	Operates S7-300 signal modules as an ET 200M DP slave
Controlled acceptance duty	ET 200M remote I/O stations

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Applications and Engineering Context

ET 200M remote I/O stations

Operates S7-300 signal modules as an ET 200M DP slave

S7-400H redundant automation

Exchanges cyclic I/O data with a PROFIBUS DP master

Distributed process instrumentation

Supports software and system redundancy arrangements

Software-redundant DP installations

Provides a defined interface position for distributed I/O commissioning

TECHNICAL NOTE

Mount the IM 153-2 on the documented ET 200M bus module, import the applicable GSD revision into the engineering tool, and verify the PROFIBUS station address before commissioning.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6ES7153-2AA02-0XB0 / 6ES7153-2AA02-0XB0 recorded
Physical interface	ET 200M active bus module
Companion check	S7-300 digital or analog signal modules
Functional proof	Operates S7-300 signal modules as an ET 200M DP slave
Application test	ET 200M remote I/O stations

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Engineering Precautions

- 1 Verify the complete 6ES7153-2AA02-0XB0 marking and the assigned SIMATIC ET 200M distributed I/O position before field work.
- 2 Isolate the applicable power, bus and field energy before disconnecting 6ES7153-2AA02-0XB0.
- 3 Use ESD controls and protect the keyed connectors and backplane interface of 6ES7153-2AA02-0XB0.
- 4 Record the installed wiring, station address and configuration before replacement of 6ES7153-2AA02-0XB0.
- 5 Confirm ET 200M active bus module and S7-300 digital or analog signal modules against the approved project configuration.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
6ES7432-1HF00-0AB0	SIMATIC S7-400 analog output module	View 6ES7432-1HF00-0AB0 page
6EP1434-2BA20	SITOP industrial power supply	View 6EP1434-2BA20 page
6ES7414-3EM07-0AB0	SIMATIC S7-400 CPU	View 6ES7414-3EM07-0AB0 page
6GK1561-2AA00	SIMATIC PROFIBUS communications adapter	View 6GK1561-2AA00 page
6ES7590-1AB60-0AA0	SIMATIC S7-1500 front connector	View 6ES7590-1AB60-0AA0 page
6AV2124-0QC02-0AX1	SIMATIC HMI operator panel	View 6AV2124-0QC02-0AX1 page
6ES7954-8LC04-0AA0	SIMATIC S7-1500 memory card	View 6ES7954-8LC04-0AA0 page
6EP3334-8SB00-0AY0	SITOP compact power supply	View 6EP3334-8SB00-0AY0 page

MANUFACTURER SOURCE RECORD

Siemens ET 200M Distributed I/O Device Operating Instructions
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