

# 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.

### PRODUCT SNAPSHOT

**BRAND**

Siemens

**FAMILY**

SIMATIC ET 200M distributed I/O

**PART**

6ES7153-2AA02-0XB0

**HS CODE**

8537101190

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## PRODUCT OVERVIEW

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.

- 1 Operates S7-300 signal modules as an ET 200M DP slave
- 2 Exchanges cyclic I/O data with a PROFIBUS DP master
- 3 Supports software and system redundancy arrangements
- 4 Provides a defined interface position for distributed I/O commissioning

## SYSTEM COMPONENTS

ET 200M active bus module

S7-300 digital or analog signal modules

PROFIBUS DP master

STEP 7 project with the applicable GSD

TECHNICAL DATA

| PARAMETER              | 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                                        |

| PARAMETER                 | VALUE                                  |
|---------------------------|----------------------------------------|
| 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                     |

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

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.

# APPLICATIONS & PRECAUTIONS

## COMMON APPLICATIONS

### 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

## PRODUCT 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.
- 6 Restore 6ES7153-2AA02-0XB0 under controlled conditions and review module diagnostics before release.
- 7 Run a limited functional test for et 200m remote i/o stations before returning the process to automatic control.
- 8 Retain the as-left settings, diagnostic status and test evidence for 6ES7153-2AA02-0XB0 in the maintenance record.

# ENGINEER FAQ

**Q1 Does 6ES7153-2AA02-0XB0 match ET 200M active bus module in a ET 200M remote I/O stations installation?**

Verify the complete 6ES7153-2AA02-0XB0 marking, the documented SIMATIC ET 200M distributed I/O position and the installed ET 200M active bus module before fitting the assembly.

**Q3 Which SIMATIC ET 200M distributed I/O records should be captured before removing 6ES7153-2AA02-0XB0?**

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 6ES7153-2AA02-0XB0 before disconnection.

**Q5 Which S7-300 digital or analog signal modules condition should be checked when 6ES7153-2AA02-0XB0 reports an abnormal state?**

Check the S7-300 digital or analog signal modules supply, seating and connection first, then compare channel diagnostics with the recorded 6ES7153-2AA02-0XB0 baseline.

**Q7 What maintenance evidence is required after 6ES7153-2AA02-0XB0 is used for Distributed process instrumentation?**

Retain the nameplate record, corrective action, final diagnostics and a controlled distributed process instrumentation functional-test result for 6ES7153-2AA02-0XB0.

**Q2 How should 6ES7153-2AA02-0XB0 be wired when it must operates s7-300 signal modules as an et 200m dp slave?**

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 6ES7153-2AA02-0XB0; then continuity-test the affected path.

**Q4 What controlled test confirms that 6ES7153-2AA02-0XB0 can exchanges cyclic i/o data with a profibus dp master?**

Apply the approved field or simulated stimulus, observe the SIMATIC ET 200M distributed I/O indication and confirm the intended response without bypassing the normal interlocks.

**Q6 Can 6ES7153-2AA02-0XB0 be moved directly into S7-400H redundant automation without validating STEP 7 project with the applicable GSD?**

No. Confirm the STEP 7 project with the applicable GSD, revision, connection scheme and SIMATIC ET 200M distributed I/O configuration before transferring 6ES7153-2AA02-0XB0 to that duty.

**Q8 How should 6ES7153-2AA02-0XB0 be returned to service in Software-redundant DP installations?**

Restore power under control, verify supports software and system redundancy arrangements, exercise the intended signal path and release 6ES7153-2AA02-0XB0 only after the SIMATIC ET 200M distributed I/O remains in its approved operating state.