

AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7138-4HA00-0AB0

PROFIBUS DP Master Interface

NETWORK	ROLE	CONNECTOR	MAXIMUM RATE
PROFIBUS DP	DP master	9-pin D-sub	12 Mbit/s

Siemens 6ES7138-4HA00-0AB0 is the PROFIBUS DP master interface module for supported ET 200S IM151-7 CPU and IM151-8 PN/DP configurations. It provides a nine-pin D-sub socket and supports PROFIBUS transmission rates up to 12 Mbit/s.

01

VERIFIED TECHNICAL INFORMATION

Supported CPU families	ET 200S IM151-7 CPU or IM151-8 PN/DP; verify exact CPU execution
Expansion quantity	Maximum 1 DP master module per CPU
Network role	PROFIBUS DP master; inactive without configuration in the documented IM151-7 arrangement
Physical interface	RS485; 9-pin D-sub socket
Transmission rates	9.6 / 19.2 / 45.45 / 93.75 / 187.5 / 500 kbit/s; 1.5 / 3 / 6 / 12 Mbit/s
Electrical isolation	DP master interface isolated in the documented IM151-7 CPU configuration
Connector supply limitation	No 15-30 V interface supply; pins 2 and 7 unassigned on the master module

Manufacturer evidence: SIMATIC ET 200S Distributed I/O - IM151-7 CPU Interface Module; exact-model manual section and manufacturer data sheet.

02 TECHNICAL INFORMATION CONTINUED

Mounting location	Immediately to the right of the IM151-7 CPU; install before terminal modules
Bus-fault indication	Red BF LED; distinguish steady and flashing indications using CPU diagnostics
DP slave capacity	Up to 32 slaves with the documented IM151-7 CPU 6ES7151-7AA21-0AB0
DP address capacity	Up to 2048 input and 2048 output bytes; 244 input and 244 output bytes per slave, for the documented IM151-7 CPU
DP services	DPV1, SYNC/FREEZE and direct data exchange supported with the documented IM151-7 CPU
Bus-cycle support	Constant bus cycle supported; isochronous mode not supported in the documented IM151-7 CPU configuration
Routing functions	PG/OP communication, routing and data-set routing with the documented IM151-7 CPU

03 SOURCE AND CONFIGURATION CHECKS

The module extends the CPU's communication arrangement rather than acting as a standalone controller or generic serial adapter. Only one master interface is permitted per CPU. Confirm the installed CPU execution, engineering software, bus configuration and installation instructions before selecting a replacement.

Packed dimensions and supplied-unit origin must be checked against the actual delivery. No verified gross shipping weight is inferred from module net mass.

Source: Siemens 10/2011, A5E00058783-05. See the original pages in the accompanying manufacturer manual.

AMIKON PRODUCT SUPPORT

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