SIMATIC ET 200M IM 153-2

Product Data Sheet

6ES7153-2AA02-0XB0

Redundancy-capable PROFIBUS interface module

NOMINAL SUPPLY VOLTAGE	SUPPLY OPERATING RANGE	MAXIMUM SUPPLY CURRENT	TYPICAL INRUSH CURRENT
24 V DC	**20.4 to 28.8 V DC, ripple included**	**550 mA at 24 V DC**	**2.5 A**

Siemens 6ES7153-2AA02-0XB0 is an IM 153-2 interface for the SIMATIC ET 200M distributed I/O station. It links up to eight S7-300 modules to PROFIBUS DP and provides redundancy and time-stamping capabilities within the documented station configuration. Its input and output address spaces are 128 bytes each.

01 TECHNICAL DATA

Nominal supply voltage	24 V DC
Supply operating range	20.4 to 28.8 V DC, ripple included
Maximum supply current	550 mA at 24 V DC
Typical inrush current	2.5 A
Supply interruption bridging	5 ms
Backplane output	5 V DC, 1 A maximum
Typical power loss	5 W
Maximum S7-300 modules	8 per interface
Input address volume	128 bytes
Output address volume	128 bytes

02 ADDITIONAL PRODUCT DATA

PROFIBUS maximum baud rate	12 Mbit/s
Permitted node addresses	1 to 125
PROFIBUS connector	9-pin Sub-D socket, RS485
Time-stamp resolution	1 ms
Time-stamp message buffering	15 buffers, 20 messages each

03 PRODUCT FUNCTION

The interface operates from 24 V DC within 20.4-28.8 V and supplies up to 1 A at 5 V to the backplane. PROFIBUS uses an RS485 9-pin Sub-D socket, supports automatic baud-rate detection up to 12 Mbit/s and permits node addresses from 1 to 125. Time stamps use a 1 ms resolution, with 15 message buffers holding 20 messages each; resolution is separate from the documented accuracy conditions.

04 SYSTEM COMPATIBILITY

Provide 24 V DC within the specified range and include up to 550 mA interface input demand in the power budget. Set a unique PROFIBUS node address and use a correctly terminated RS485 bus connector. Match the GSD and controller configuration to the IM 153-2AA0x hardware.

05 REFERENCE

Siemens 6ES7153-2AA02-0XB0 Product Data Sheet, 18 October 2014, pages 1-3.

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