MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6ES7153-2BA00-0XB0

IM 153-2 INTERFACE MODULE

Used with the applicable SIMATIC ET 200M configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens 6ES7153-2BA00-0XB0

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Data sheet 6ES7153-2BA00-0XB0

SIMATIC DP, ET 200M INTERFACE IM 153-2 HIGH FEATURE FOR MAX. 8 S7-300 MODULES, WITH REDUNDANCY, TIME STAMPING FIT FOR ISOCHRONE MODE

General information	
Vendor identification (VendorID)	801Eh
Supply voltage	
Rated value (DC)	
• 24 V DC	Yes
external protection for power supply lines (recommendation)	not necessary
Input current	
Current consumption, max.	550 mA; At 24 V DC
Inrush current, typ.	2.5 A
I^2t	0.1 $A^2 \cdot s$
Output voltage	
Rated value (DC)	5 V
Output current	
for backplane bus (5 V DC), max.	1 A
Power loss	
Power loss, typ.	5 W
Address area	
Addressing volume	
• Inputs	128 byte
• Outputs	128 byte
Time stamping	
Accuracy	10 ms; 10 ms / 3 ms
Number of message buffers	15
Messages per message buffer	20
Number of stampable digital inputs, max.	128
Time format	RFC 1119 Internet (ISP)
Time resolution	1 ms
Time interval for transmitting the message buffer if a message is present	1 000 ms
Time stamp on signal change	rising / falling edge as signal entering or exiting
Interfaces	

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Transmission procedure	RS 485
PROFIBUS DP	
• Node addresses	1 to 125 permitted
• automatic detection of transmission rate	Yes
• Transmission rate, max.	12 Mbit/s
• SYNC capability	Yes
• FREEZE capability	Yes
• Direct data exchange (slave-to-slave communication)	Yes; Sender
• Design of electrical connection of PROFIBUS interface	RS 485
1. Interface	
PROFIBUS DP slave	
• GSD file	(for DPV1) SIEM801E.GSD; SI01801E.GSG (for IM 153-2AA0x); SI02801E.GSG (for IM 153-2BA0x)
• automatic baud rate search	Yes
Protocols	
Bus protocol/transmission protocol	PROFIBUS DP to EN 50170
Isolation	
Isolation tested with	Isolation voltage 500 V
Degree and class of protection	
IP degree of protection	IP20
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	60 °C
Altitude during operation relating to sea level	
• Installation altitude above sea level, max.	3 000 m
Configuration	
Configuration software	
• STEP 7	Yes; STEP 7 / COM PROFIBUS / non-Siemens tools via GSD file
Dimensions	
Width	40 mm
Height	125 mm
Depth	117 mm
Weights	
Weight, approx.	360 g

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