MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6ES7151-1BA00-0AB0

IM 151-1 HIGH FEATURE INTERFACE MODULE

Used with the applicable SIMATIC ET 200S configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens manufacturer data for 6ES7151-1BA00-0AB0

6ES7151-1BA00-0AB0

ET200S, INTERF.MOD. IM151-1 HF, 12MBIT/S

Technical data

	SIMATIC DP, INTERFACE MODULE IM151-1 HIGH FEATURE F. ET200S; TRANSMISS. RATE UP TO 12MBIT/S; DATA VOLUMEN 244 BYTE FOR I/O, MAX. 63 MODULES CONNECTABLE; ISOCHRONE MODE, BUS INTERFACING VIA 9-WAY SUB-D CONNECTOR, INCL. TERMINATING MODULE
General information	
Vendor identification (VendorID)	80E0h
Product function	
● Isochronous mode	Yes; From 1.5 Mbit/s
Supply voltage	
Mains buffering	
● Mains/voltage failure stored energy time	20 ms
Input current	
from supply voltage 1L+, max.	200 mA
Power loss	
Power loss, typ.	3.3 W
Address area	
Addressing volume	
● Inputs	244 byte
● Outputs	244 byte
Interfaces	
Transmission procedure	RS 485
Transmission rate, max.	12 Mbit/s; 9,6 / 19,2 / 45,45 / 93,75 / 187,5 / 500 kbit/s; 1,5 / 3 / 6 / 12 Mbit/s
PROFIBUS DP	
● Output current, max.	80 mA
● SYNC capability	Yes
● FREEZE capability	Yes
● Direct data exchange (slave-to-slave communication)	Yes
● Design of electrical connection	9-pin sub D socket
● Cable length, max.	1 200 m
Protocols	
Supports protocol for PROFINET IO	No
PROFIBUS DP	Yes
Protocols (Ethernet)	
● TCP/IP	No
Interrupts/diagnostics/status information	
Alarms	Yes
Diagnostics function	Yes
Diagnostics indication LED	
● Bus fault BF (red)	Yes
● Group error SF (red)	Yes
● Monitoring 24 V voltage supply ON (green)	Yes
Potential separation	
between backplane bus and electronics	No
between electronic block and PROFIBUS DP	Yes
between supply voltage and electronics	No
Isolation	
Isolation tested with	500 V DC
Dimensions	
Width	45 mm
Height	119.5 mm
Depth	75 mm
Weights	
Weight, approx.	150 g
last modified:	11/27/2020
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