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Data sheet 6ES7138-4DF01-0AB0



Figure similar

*** Spare part *** SIMATIC DP, Electronics module for ET 200S, 1 SI serial interface 1-channel, 15 mm width, RS232/422, 485 ASCII, 3964R

Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Input current	
from supply voltage L+, max.	120 mA
from backplane bus 3.3 V DC, max.	10 mA
Power loss	
Power loss, typ.	1.2 W
Storage	
Standard blocks	5 100 byte; S_SEND 2700, S_RCV 2400, S_XON 2600, S_RTS 2600, S_V24 2700, S_VSTAT 1800, S_VSET 1800
Interfaces	
Number of interfaces	1
Point-to-point connection	
Integrated protocol driver	
— 3964 (R)	Yes
— ASCII	Yes
Telegram length, max.	
— 3964 (R)	224 byte
— ASCII	224 byte
Transmission rate, RS 422/485	
— with 3964 (R) protocol, max.	115.2 kbit/s; half duplex: 110, 300, 600, 1 200, 2 400, 4 800, 9 600, 19 200, 38 400, 57 600, 76 800, 115 200 bps
— with ASCII protocol, max.	115.2 kbit/s; Full duplex: 110, 300, 600, 1 200, 2 400, 4 800, 9 600, 19 200, 38 400, 57 600, 76 800, 115 200 bps
Transmission speed, RS 232	
— with 3964 (R) protocol, max.	115.2 kbit/s; half duplex: 110, 300, 600, 1 200, 2 400, 4 800, 9 600, 19 200, 38 400, 57 600, 76 800, 115 200 bps
— with ASCII protocol, max.	115.2 kbit/s; Full duplex: 110, 300, 600, 1 200, 2 400, 4 800, 9 600, 19 200, 38 400, 57 600, 76 800, 115 200 bps
Signals	
— RS 232C	RS 232C signals: 8 (TxD, RxD, RTS, CTS, DTR, DSR, DCD, PE)
— RS 422	TxD(A), RxD(A), TxD(B), RxD(B), GND
— RS 485	R/T(A), R/T(B), GND
Character frame (adjustable)	
— Bits per character	7 or 8
— Number of start/stop bits	1 or 2
— Bits per character frame	10
— Parity	none, odd, even, any

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Data quantity per PLC sampling cycle	
— Send	32 byte; With IM151-1 Standard as of 6ES7151-1AA04-0AB0; with IM151-1 High Feature as of 6ES7151-1BA01-0AB0; otherwise 8 bytes
— Receive	32 byte; With IM151-1 Standard as of 6ES7151-1AA04-0AB0; with IM151-1 High Feature as of 6ES7151-1BA01-0AB0; otherwise 8 bytes
Interface types	
RS 232	
● Cable length, max.	15 m
RS 485	
● Cable length, max.	1 200 m
Interrupts/diagnostics/status information	
Diagnostics indication LED	
● Receive RxD	Yes
● Transmit TxD	Yes
● Group error SF (red)	Yes
Potential separation	
Potential separation interface	
● Between RS 422/485 and internal power supply	Yes
● between RS 232 and internal power supply	Yes
Ambient conditions	
Ambient temperature during operation	
● min.	0 °C
● max.	60 °C
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	50 g

Classifications

	Version	Classification
eClass	16	27-24-26-08
eClass	14	27-24-26-08
eClass	12	27-24-26-08
eClass	9.1	27-24-26-08
eClass	9	27-24-26-08
eClass	8	27-24-26-08
eClass	7.1	27-24-26-08
eClass	6	27-24-26-08
ETIM	10	EC001604
ETIM	9	EC001604
ETIM	8	EC001604
ETIM	7	EC001604
IDEA	4	3564
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Miscellaneous | Manufacturer Declaration

General Product Approval	EMV	For use in hazardous locations

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China RoHS

For use in hazardous locations

Miscellaneous CCC-Ex

Maritime application

NK / Nippon Kaiji Kyokai

Maritime application

CCS (China Classification Society) KR (Korean Register of Shipping)

last modified: 8/22/2025

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