SIEMENS

Data sheet 6ES7138-4DF00-0AB0

SIMATIC DP, ELECTRONIC MODULE FOR ET 200S, 1 SI SERIAL INTERFACE ONE CHANNEL, 15MM WIDE RS232/422, 485 ASCII, 3964R

Supply voltage	
Rated value (DC)	24 V
Input current	
from backplane bus 3.3 V DC, max.	10 mA
Power loss	
Power loss, typ.	1.2 W
Memory	
Standard blocks	2 700 byte; P_SEND, P_RCV in S7-CPU
Interfaces	
Number of interfaces	1
Interface physics, RS 232C (V.24)	Yes; RS 232C signals: 8 (TxD, RxD, RTS, CTS, DTR, DSR, DCD, PE)
Interface (physical) RS 422/485 (X.27)	Yes; RS-422 signals: 5 (TxD(A), RxD(A), TxD(B), RxD(B), PE); RS-485 signals: 3 (R/T(A), R/T(B), PE)
RS 232, cable length shielded, max.	15 m
RS 422/RS 485, cable length shielded, max.	1 200 m
Point-to-point connection	
Integrated protocol driver	
— 3964 (R)	Yes
— ASCII	Yes
Transmission rate, RS 422/485	
— with 3964 (R) protocol, max.	19.2 kbit/s; half duplex: 110, 300, 600, 1 200, 2 400, 4 800, 9 600, 19 200 bps
— with ASCII protocol, max.	19.2 kbit/s; full duplex: 110, 300, 600, 1 200, 2 400, 4 800, 9 600, 19 200 bps
Transmission speed, RS 232	
— with 3964 (R) protocol, max.	19.2 kbit/s; half duplex: 110, 300, 600, 1 200, 2 400, 4 800, 9 600, 19 200 bps
— with ASCII protocol, max.	19.2 kbit/s; full duplex: 110, 300, 600, 1 200, 2 400, 4 800, 9 600, 19 200 bps
Character frame (adjustable)	
— Bits per character	7 or 8
— Number of start/stop bits	1 or 2
— Bits per character frame	10

Subject to change without notice
© Copyright Siemens

— Parity	none, odd, even, any
Data quantity per PLC sampling cycle	
— Send	7 byte
— Receive	7 byte

Interrupts/diagnostics/status information	
Diagnostics indication LED	
• Receive RxD (green)	Yes
• Transmit TxD (green)	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
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C

Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm

Weights	
Weight, approx.	50 g

last modified: 08/15/2019

Subject to change without notice
© Copyright Siemens