

SIEMENS

Product data sheet

6ES7138-4DF01-0AB0


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

Supply voltage	
Load voltage L+	
Rated value (DC)	24 V
Input current	
from backplane bus 3.3 V DC, max.	10 mA
from backplane bus 24 V DC, max.	80 mA ; Typ. 20 mA
Power losses	
Power loss, typ.	1.2 W
Memory	
Standard blocks	5100 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
RS 422/RS485	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 422/485, cable length, shielded, max.	1200 m
Point-to-point	
RS 232C	Yes ; RS 232C signals: 8 (TxD, RxD, RTS, CTS, DTR, DSR, DCD, PE)
Integrated protocol driver	
3964 (R)	Yes
ASCII	Yes
Telegram length, max.	
3964 (R)	224 byte
ASCII	224 byte
Transmission speed, RS 422/485	
with 3964 (R) protocol, max.	115.2 kbit/s ; half duplex: 110, 300, 600, 1200, 2400, 4800, 9600, 19,200, 38,400, 57,600, 76,800, 115,200 bit/s
with ASCII protocol, max.	115.2 kbit/s ; Full duplex: 110, 300, 600, 1200, 2400, 4800, 9600, 19,200, 38,400, 57,600, 76,800, 115,200 bit/s
Transmission speed, RS232	
with 3964 (R) protocol, max.	115.2 kbit/s ; half duplex: 110, 300, 600, 1200, 2400, 4800, 9600, 19,200, 38,400, 57,600, 76,800, 115,200 bit/s
with ASCII protocol, max.	115.2 kbit/s ; Full duplex: 110, 300, 600, 1200, 2400, 4800, 9600, 19,200, 38,400, 57,600, 76,800, 115,200 bit/s
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
Number of bytes per PLC sampling cycle	
Data quantity per PLC sampling cycle, receiving	32 byte ; with IM151-1 Standard as of 6ES7 151-1AA04-0AB0; with IM151-1 High Feature as of 6ES7 151-1BA01-0AB0; otherwise 8 bytes
Data quantity per PLC sampling cycle, transmitting	32 byte ; with IM151-1 Standard as of 6ES7 151-1AA04-0AB0; with IM151-1 High Feature as of 6ES7 151-1BA01-0AB0; otherwise 8 bytes

Interrupts/diagnostics/status information	
Diagnostics indication LED	
Receive RxD (green)	Yes
Transmit TxD (green)	Yes
Group error SF (red)	Yes
Galvanic isolation	
Electrical isolation interface	
between 422/485 and internal power supply	Yes
between RS 232 and internal power supply	Yes
Ambient conditions	
Operating temperature	
Min.	0 °C
max.	60 °C
Storage/transport temperature	
Min.	-40 °C
max.	70 °C
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weight	
Weight, approx.	50 g
Status	Jul 17, 2012