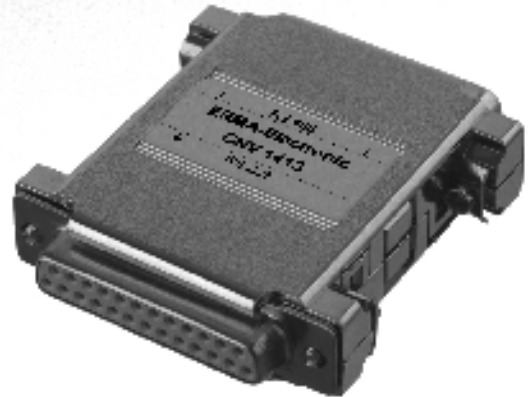


■ RS232 - RS422/RS485 Converter CNV 1413

Characteristics

- **Low-Cost Converter**
- **Easy Installation**
- **Flexible Power Supply 8 to 36 VDC**
- **Communication distance up to 1000 m**
- **Data rate max. 120 kBaud**



Configuration of the module

The configuration can be setup at factory (see ordering information) or by the user by soldering little connections. So the user should have some experience in soldering for changing the configuration.

- Operation mode RS485 or RS422
Operation as 2-wire RS485 or as 4-wire RS422
- Transmitter control DTR or RTS of RS232
- Transmitter control permanent, high- or low-active
- Receiver control permanent on or only when transmitter is off
- Pinning DCE or DTE
DCE, direct connection to DTE (PC/Notebook)
DTE, direct connection to DCE (TxD and RxD exchanged)

Bustermmination

The module consist of 2 termination resistors of 120 Ω each. These resistors can be seperatly activated by external wires. One resistor is to be used for the receiver, the other for the transmitter. Only one of these resistors is to be used in RS485-applications.

Electrical Data

General	
Max. baud-rate	max. 120 kBaud
RS232	
Used signals	TxD, RxD, DTR/RTS, GND
Shorted signals	RTS + CTS, DTR + DSR + DCD
RS485/RS422	
Transmittercontrol	over DTR/RTS of RS232 or permanent
Termination resistors	2 x 120 Ω, seperately switchable
Power supply	
Supply voltage	8 to 36 VDC
Power consumption	max. 70 mA at 8 VDC max. 20 mA at 36 VDC
Connection	on SUB-D-Connector of RS422/485

Mechanical Datas

Case	Module case for direct connection to RS232
Dimensions (W x H x L)	55 x 18 x 65 mm
Weight	approx. 50 g
Connection	25 pol. SUB-D-female for RS232 25 pol. SUB-D-male for RS485/RS422

Environmental conditions

Operating temperature	0 .. 50 °C
Storage temperature	-20 .. 70 °C
Humidity	< 80 %, not condensing
CE	in conform with 89/336/EWG

Ordering Information

CNV 1413-									
	<table border="1"> <tr> <td colspan="2">Pinning</td> </tr> <tr> <td>0</td> <td>DCE</td> </tr> <tr> <td>1</td> <td>DTE</td> </tr> </table>	Pinning		0	DCE	1	DTE		
Pinning									
0	DCE								
1	DTE								
	<table border="1"> <tr> <td colspan="2">Receiver control</td> </tr> <tr> <td>0</td> <td>Permanent receive</td> </tr> <tr> <td>1</td> <td>Controlled receiver (receive when driver is off)</td> </tr> </table>	Receiver control		0	Permanent receive	1	Controlled receiver (receive when driver is off)		
Receiver control									
0	Permanent receive								
1	Controlled receiver (receive when driver is off)								
	<table border="1"> <tr> <td colspan="2">Transmitter control</td> </tr> <tr> <td>0</td> <td>High active</td> </tr> <tr> <td>1</td> <td>Low active</td> </tr> <tr> <td>2</td> <td>Permanent sending</td> </tr> </table>	Transmitter control		0	High active	1	Low active	2	Permanent sending
Transmitter control									
0	High active								
1	Low active								
2	Permanent sending								
	<table border="1"> <tr> <td colspan="2">Transmitter control</td> </tr> <tr> <td>0</td> <td>DTR</td> </tr> <tr> <td>1</td> <td>RTS</td> </tr> </table>	Transmitter control		0	DTR	1	RTS		
Transmitter control									
0	DTR								
1	RTS								
	<table border="1"> <tr> <td colspan="2">Operation mode</td> </tr> <tr> <td>0</td> <td>RS485</td> </tr> <tr> <td>1</td> <td>RS422</td> </tr> </table>	Operation mode		0	RS485	1	RS422		
Operation mode									
0	RS485								
1	RS422								

Standardmodule

CNV 1413-00000