

## EASY RS485/422

RS232 to RS485/422 converter non isolated



### Quick REFERENCE

Version 1.1

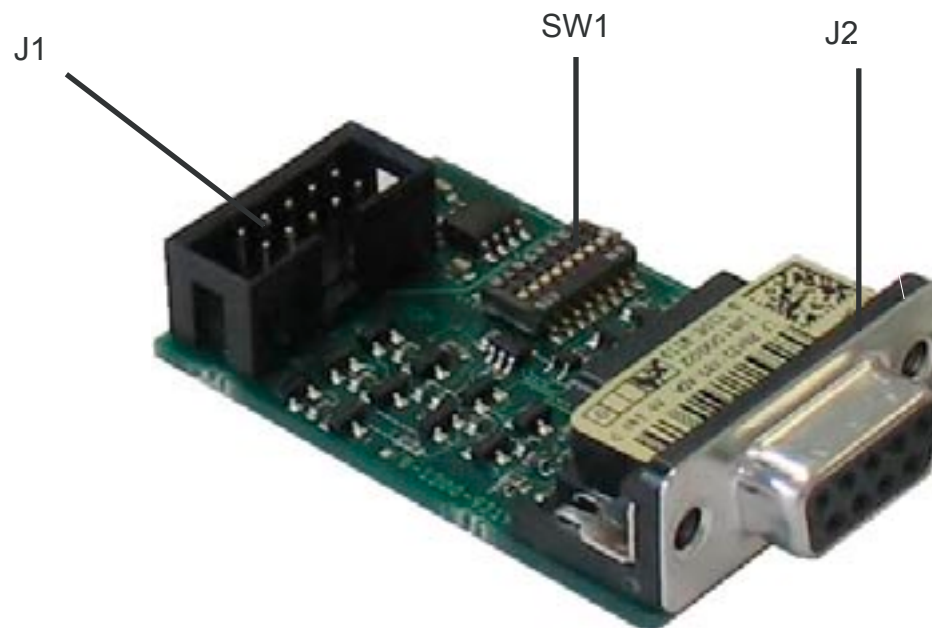
#### Connectors

J1: RS232 input

J2: RS485/422 output

SW1: Configuraton

1. Check if CPU-Board offers 5V on Pin 10 on RS232 header
2. Check pinning on your RS485/422 cabel
3. Check setting on SW1
4. Recalculate Timeout if auto-timeout is active

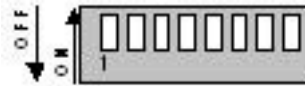


# Connector Pinouts

# EASY RS485/422

10 pin RS232 Header on Mainboard		
Pin	Signal	Funktion
1	DCD	Data Carrier detect
2	DSR	Data Set ready
3	RXD	Receive Data
4	RTS	Request to Send
5	TXD	Transmit Data
6	CTS	Clear to Send
7	DTR	Data Terminal ready
8	RI	Ring Indicator
9	GND	Ground
10	Vcc	5V

Jumper Settings SW1				
DIP1	DIP2	DIP3	Switching sending <-> receiving	Typ
OFF	OFF	X	-	RS422 4-Channel mode
ON	OFF	ON	-	RS485 4-Wire mode (Bus-Master)
ON	ON	ON	RTS	RS485 2-Wire mode
ON	ON	OFF	Timeout	RS485 2-Wire mode



Terminator Resistor	
SW1 DIP4	Termination resistor
OFF	Disabled
ON	Enabled

9pol DSUB Female:			
Pin	Signal RS422	Signal RS485 full duplex	Signal RS485 half duplex
1	TXD-	TXD-	Data -
2	RXD+	RXD+	NC
3	TXD+	TXD+	Data +
4	RXD-	RXD-	NC
5	Ground	Ground	Ground
6	RTS-	NC	NC
7	RTS+	NC	NC
8	CTS+	NC	NC
9	CTS-	NC	NC

Baud Rate Timeout					
Setting SW1				Timeout	Min. Baud rate
DIP5	DIP6	DIP7	DIP8		
OFF	OFF	OFF	OFF	10.2ms	1200
OFF	OFF	OFF	ON	9.6ms	
OFF	OFF	ON	OFF	9.0ms	
OFF	OFF	ON	ON	8.4ms	
OFF	ON	OFF	OFF	7.8ms	
OFF	ON	OFF	ON	7.2ms	
OFF	ON	ON	OFF	6.5ms	
OFF	ON	ON	ON	5.9ms	
ON	OFF	OFF	OFF	4.8ms	2400
ON	OFF	OFF	ON	4.3ms	
ON	OFF	ON	OFF	3.7ms	
ON	OFF	ON	ON	3.1ms	
ON	ON	OFF	OFF	2.5ms	4800
ON	ON	OFF	ON	1.9ms	
ON	ON	ON	OFF	1.2ms	9600
ON	ON	ON	ON	0.6ms	19200

**Note**

For Technical Support please contact:

1. Internet: [www.kontron.com](http://www.kontron.com)
2. E-Mail: [support@kontron.com](mailto:support@kontron.com)
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