

RS232 to RS485/422 w. external power

Part no.: UT-216



This is a versatile combined RS232 to RS485 / RS422 converter, suitable for a variety of applications including industrial, laboratory, commercial and consumer projects.

What is interesting about this converter is that it has several types of interfaces for connecting your RS485 / RS422 connection. You can choose to connect single wires via the included terminal header, connect a serial cable via the DB9 male connector or a patch/phone cable via the RJ45 connector. It is capable of working in either half-duplex RS485 or full-duplex RS422 mode. Automatic Send Data Control is enabled by default so no drivers or other software is required. You can use it with point-to-point or point-to-multipoint networks.

- Externally powered
- Industrial grade
- RS485 and RS 422 interfaces
- DB9, RJ45 and screw terminals available
- Surge / high-voltage protection
- Electrostatic protection

The converter automatically senses whether the RS422 or the RS485 is connected to the interface, simply connect the wires and you are ready to go.

This RS232 to RS485 / RS422 converter must be externally powered by a 9VDC supply, (a 120VAC/9VDC wall adapter is included with the converter). It has a strong aluminum housing so you won't break it easily. LED indication lights for TX, RX and power make it easy to see when communication is present.

This converter is non-isolated with protection against static electricity which is ideal for most applications however for industrial or very sensitive projects we recommend an optically isolated converter.

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Specifications

SPECIFICATIONS	
Model number	UT-216
Baud rate	300 - 115200bps
Power	External power: 9VDC (120VAC/9VDC wall adapter included)
RS-232 interface	DB9 female connector
RS422 / RS485 interface	DB9 male, terminal board and RJ45
Current consumption	less than 10mA
ESD static protection	1500W / 600W/ms
Handshake / flow control	Automatic Send Data Control
Working mode	4-wire RS422 asynchronous, full-duplex differential and half-duplex RS485
Standards	EIA/TIA RS-232C / RS-422 / RS485
Transmission distance	RS232: Typical: 15 FT (5m) RS422: Typical: 4000 FT (1200m)
Operating humidity	5% To 95% - No Condensation
Operating Temp.	-40°F to 180°F (-40°C to 85°C)
Warranty	2-year Limited Warranty
ECCN	4A994.a
Schedule B	8471.80.1000
HTS	8517.18.0050

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Connection table

RS232 interface	
Pin	RS232 DB9
1	
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

RS485/422 interface			
Pin	RJ45	RS422	RS485
1	1	T/R+ (A+)	A+
2	2	T/R- (B-)	A-
3	3	RXD+ (A+)	
4	6	RXD- (B-)	
5	4,5,6,7	GND	GND
6		VCC (9-30VDC)	VCC (9-30VDC)
7			
8			
9			

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