

RS232 to RS232 / RS485 / RS422  
Industrial Surge Protected Converter  
Part no. XS216



This bi-directional combined *RS-232 to RS-485 / RS-422 converter* is a solid commercial and industrial grade converter. It converts RS-232 signals to half-duplex RS-485 balanced differential signals or RS-422 full-duplex.

With its surge protected interfaces to protect your equipment, data and the converter itself against high voltage surges, this converter is suitable for most industrial, commercial, office, lab and network applications, even in tough environments.

It uses an external 9 to 30VDC power supply, (a 110/240VAC to 12VDC power supply adapter is included with the converter).

A great feature of this converter is that it offers multiple interfaces. The RS-232 interface is a standard DB9 female connector and the RS-485 / RS-422 side offers three different interfaces to choose from:

- RJ45
- DB9 Male connector
- Screw terminals

All interfaces are included and enabled in each converter.

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

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			

#### Overall features

- Industrial grade strength
- Surge protected up to +/-15KV, 600W for RS485/RS422
- Fail-safe bias resistors
- DB9, RJ45 and screw terminal connectors in same converter
- Automatic Send Data Control
- Control LEDs for TX, RX and power
- Compatible with Modbus RTU/ASCII, BACnet
- Terminal board included
- 110/240VAC to 12VDC power supply included
- Serial RS-232 cable included (M/F)

SPECIFICATIONS	
Model number	XS216
Baud rate	300 - 115200bps
Interface RS232	DB9 female connector Pin 7 (RTS) and 8 (CTS) are tied together. Pin 4 (DTR), 6 (DSR), and 1 (CD) are tied together.
Interface RS422 / RS485	DB9 male, RJ45 and terminal board
Signals	RS485, 2-wire, D+ and D- RS42, 4-wire, TX+, RX+, TX-, RX-
Transmission distance	RS232: Typical: 15 FT (5m) RS422: Typical: 4000 FT (1200m)
Power	Externally powered by 9 - 30VDC. 110/240VAC to 12VDC power supply is included
Current consumption	less than 20mA
ESD protection	1500W / 600W/ms
Operating Temp.	-40°F to 180°F (-40°C to 85°C)
Operating humidity	5% To 95% - No Condensation
Standards	EIA/TIA RS-232C / RS-422 / RS485
Compliance	CE, FCC, RoHS, ISO 9001
Warranty	1 year limited warranty
ECCN	4A994.a
Schedule B	8471.80.1000
HTS	8517.18.0050

To access technical support, please visit the U.S. Converters website at:  
[www.USconverters.com](http://www.USconverters.com)  
Here you will find:

- Latest drivers and updates for download
- Technical tips
- Documentation
- Configuration support
- and much more...

Feel free to contact our technical support team at [mail@usconverters.com](mailto:mail@usconverters.com) with any issues.