

# RS232 to RS485/422 Converter

Part no.: XS203



- Port-powered with optional external power
- Protection against static electricity
- Asynchronous, full-duplex differential
- Plug and play, no drivers required
- 2 year warranty
- CE, FCC, RoHS, ISO 9001 Compliant

Combination RS232 to RS485 / RS422 converter. With this converter you can convert any RS232 signal to either RS485 or RS422 in both directions (RS485 to RS232 and RS422 to RS232). It is a good and economical standard solution for most applications that can be used in industrial, commercial, laboratory and consumer environments.

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. No jumpers, drivers or other software needed.

This RS232 to RS485 / RS422 converter is powered from the RS232 port so you don't need to apply an external power supply to the converter. In rare cases where the RS232 port doesn't provide sufficient power to the converter you can easily connect an external 5

to 12VDC power supply to the terminal header on the RS485 / RS422 side of the converter.

The RS232 side of the converter is a DB9 connector and the RS485 / RS422 side is a DB9 male connector with an optional 6-terminal header block for easy connection of single wires.

This converter is non-isolated, it does have protection against static electricity however for industrial use and for sensitive applications we recommend using an isolated converter. In that case please take a look at our optically isolated RS232 to RS485 / RS422 converters.

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## Specifications

SPECIFICATIONS	
Model number	XS203
Baud rate	300 - 115200bps
Power	Port-powered from RS232 (RTS, DTR, TXD). Optional external power: 5 - 12VDC
RS-232 interface	DB9 female connector
RS422 / RS485 interface	DB9 male and terminal board
Current consumption	less than 10mA
ESD 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)
Dimensions	2.47" x 1.33" x 0.70" (62.8 mm x 33.8 mm x 17.8 mm)
Warranty	5-year Limited Warranty
ECCN	4A994.a
Schedule B	8471.80.1000
HTS	8517.18.0050



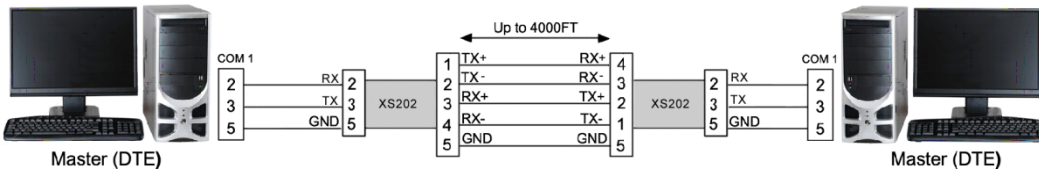
### Connection tables

Pin no.	DB9 Female RS232
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

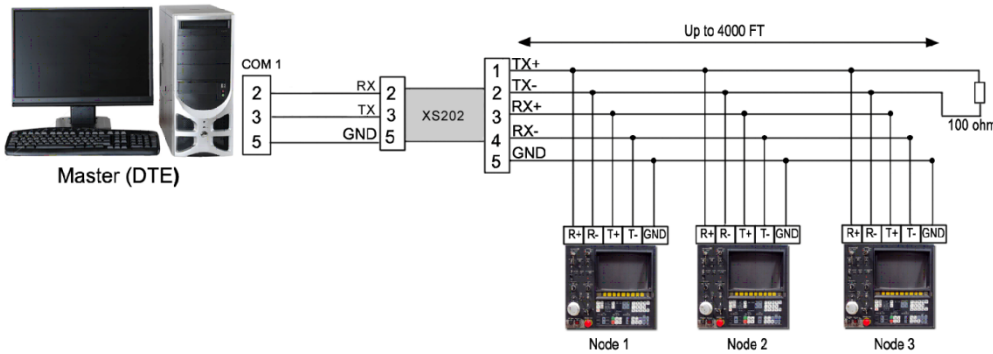
Pin no.	DB9 Male RS485	DB9 Male RS422
1	D+	TX+
2	D-	TX-
3		RX+
4		RX-
5	GND	GND
6	5 VDC	5VDC
7		
8		
9		

Notice: If making a loop-back test, the remote RS232 end needs to be connected to a standard RS232 port. A loop-back test will not work in this extension setup.

### Extending RS232 over RS422 example



### Point-to-multipoint setup example



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