

RS232 to RS422 Converter

Part no.: XS202



- Port-powered with optional external power
- Highly reliable Maxim MAX491 chip
- Protection against static electricity
- Asynchronous, full-duplex differential
- Plug and play, no drivers required
- 2 year warranty
- CE, FCC, RoHS, ISO 9001 Compliant

Reliable and economical RS232 to RS422 converter that will fit into any budget. This is a good simple RS232 to RS422 converter which can be used for most applications including industrial, commercial, laboratory and consumer applications. It is port-powered so you don't need to connect an external power supply to power this converter. However, even this converter is port-powered it still has an optional external power connector, in case your RS232 port doesn't provide sufficient power.

The RS232 side of this RS422 converter is a DB9 female connector and the RS422 side is a DB9 male connector with an optional terminal header included. The terminal header makes it easy to connect single wires to the converter.

As all our converters this RS422 converter is bi-directional which means that it converts

data in both directions, from RS232 to RS422 and from RS422 to RS232. Simply connect the wires and the converter will do what its best at...converting data!

Like most other electronics, finding a product with a good reliable main processor chip is essential. This converter is designed around the super reliable and high performance MAX491 processor chip from Maxim/Dallas Semiconductor and the supporting serial output chip is the Philips74HCT14 from Philips. What more can you ask for? This converter is protected against static electricity and most other fast high-voltage spikes, however if you need full isolation to protect your devices please take a look at our line of optically isolated RS232 to RS422 converters.

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**NordField**
ELECTRONICS

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Specifications

SPECIFICATIONS	
Model number	XS202
Baud rate	300 - 115200bps
Power	Port-powered from RS232 (RTS, DTR, TXD). Optional external power: 5 - 12VDC
Processor	MAX491 / Philips HEF4093
Current consumption	Less than 10mA
Interface RS232	DB9 female connector
Interface RS422	DB9 Male and terminal board
Working mode	4-wire RS232 to RS422 asynchronous, full-duplex differential
Standards	EIA/TIA RS232 / RS422 converter
Transmission distance	RS232: Typical: 15 FT (5m) RS422: Typical 4000FT (1200m)
Static/surge protection	1500W / 600W/ms
Operating Temp.	-40°F to 180°F (-40°C to 85°C)
Operating humidity	5% To 95% - No Condensation
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

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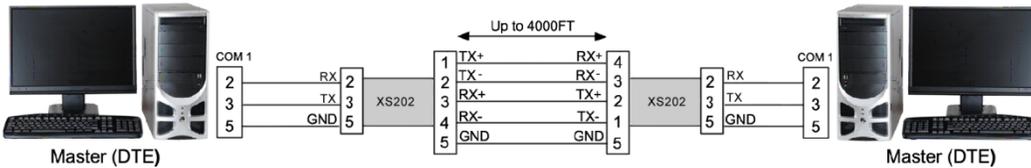
Connection tables

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

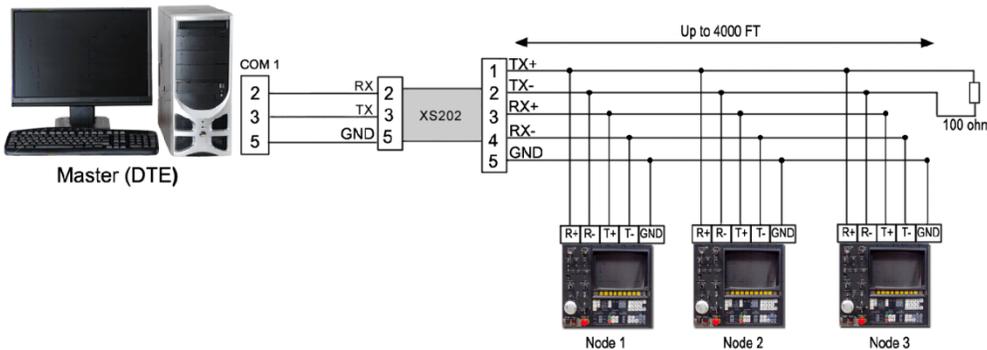
RS422	
DB9 Male pin no.	Signal
1	TX+
2	TX-
3	RX+
4	RX-
5	GND
6	5VDC
7	
8	
9	

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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