

RS232 Isolator

Part no.: AN232ISO



- Port-powered from RS232 port
- 3-wire protection (TX, RX and GND)
- Up to 1500V constant voltage protection
- 15KV ESD static protection
- Plug and play, no drivers required
- 2 year warranty
- CE, FCC, RoHS, ISO 9001 Compliant

If you need to effectively protect your RS232 ports and devices against high-voltage spikes, surges, ground-loops and other damaging voltages then this optical isolator is what you need. It effectively protects your RS232 devices for up to with 1500V constant voltage, 600W surge protection and 15KV ESD static protection.

The isolator is easy to connect, simply connect it with the DB9 connectors between your communication wire and your device. One isolator at each end of your communication wire is recommended if the communication distance is longer than 100 feet, however the recommended distance depends on the amount of static electricity in the surrounding environment.

The port powered feature of this isolator means that you do not need to connect an external power supply to the unit, it gets its power from the RS232 port, it can do this effectively without interfering with the data communication.

This is a 3-wire isolator which means that it protects the TX, RX and GND communication wires. If you need to isolate all communication wires please see our 8-wire optical isolator.

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PRODUCTS

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ELECTRONICS

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Specifications

SPECIFICATIONS	
Model number	AN232ISO
Lines protected	TXD, RXD, GND
Baud rate	300 - 57,600bps
Power	Port-powered -5VDC from RS232 port (TXD alternatively RTS, DTR)
Current draw	Less than 15mA
Interface PC side	DB9 female connector
Optical isolation	1500V
ESD protection	1500W / 600W/ms
Working mode	Asynchronous, full transparent
Standards	EIA/TIA RS-232C / RS232
Operating Temp.	-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	2-year Limited Warranty
ECCN	4A994.a
Schedule B	8471.80.1000
HTS	8517.18.0050

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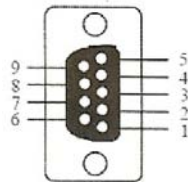
mail@usconverters.com



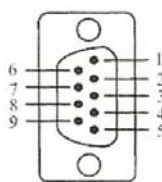
DB9 Female (PC)	RS232
1	DCD
2	TXD
3	RXD
4	DTR
5	GND
6	DSR
7	CTS
8	RTS
9	

DB9 Male (Device)	RS232
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	

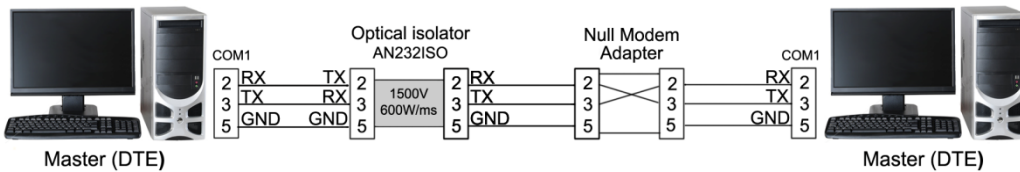
DB9 Female



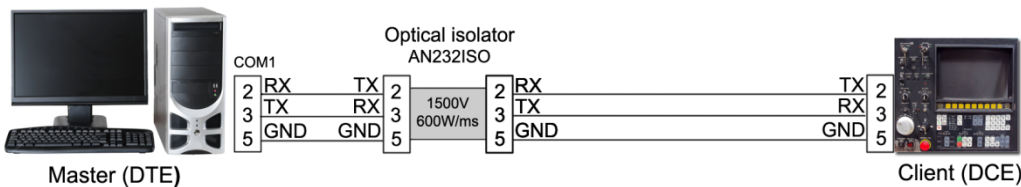
DB9 Male



Isolation between two master (DTE) devices.



Isolation between a master (DTE) and a client (DCE) device.



In cases where only the TX line from the isolator is needed for your application -6VDC can be applied to the RX wire (pin 2) and +6V to the GND wire (pin 5) on the isolator. This simulates power provided from a TX line and will provide power to generate a signal on the TX wire from the isolator.

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