

Industrial 3-Wire Port-Powered RS232 Isolator (Part Number: CVT-232A-3)



http://www.CommFront.com

Part Number: CVT-232A-3



■ INTRODUCTION

The CVT-232A-3 is a compact, rugged, industrial-grade, port-powered, 3-wire RS-232 isolator. The unit optically isolates three (3) RS-232 lines (TX, RX and GND), which effectively protects your RS-232 devices from ground loops, noise problems, transient surges, remote lightning and spikes. The unit is powered from the RS-232 data line, and therefore, no external power, software drivers or flow control is required.

■ FEATURES

- Port-powered, no external power is required.
- Handshake lines tied together to meet acknowledgement requirements.
- Industrial grade enclosed in a rugged, rustless ABS housing.
- 5000V optical isolation effectively protects your RS-232 devices from ground loops, transient surges, remote lightning and spikes.
- Optical isolation eliminates ground loop and noise problems.
- Plug and play (hot-pluggable, data format auto-sensing and self-adjusting).
- Operating temperature: -40°F to 185°F (-40°C to 85°C).
- Built-in 600W surge protection, 15kV static protection and circuit protection.
- Surface Mount Technology manufactured to RoHS and ISO-9001 standards.
- Safety: Strictly certified by TUV (Cert No. SG-CE-090012).
- 5-year manufacturer's warranty.

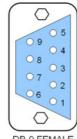
SPECIFICATIONS

EIA/TIA RS-232C standard					
Port power from RS-232 data line					
Less than 10mA					
5000Vrms (AC, 1 min)					
300 to 38,400bps (auto-sensing and self-adjusting)					
RS-232: 16ft (5m)					
DB-9 female connector and DB-9 male connector					
600W					
Up to 15KV					
0.63 x 1.3 x 2.5 in (16 x 32 x 63 mm)					
0.83 oz (23.5 g)					
-40°F to 185°F (-40°C to 85°C)					
Up to 90% RH (no condensation)					

PIN ASSIGNMENT

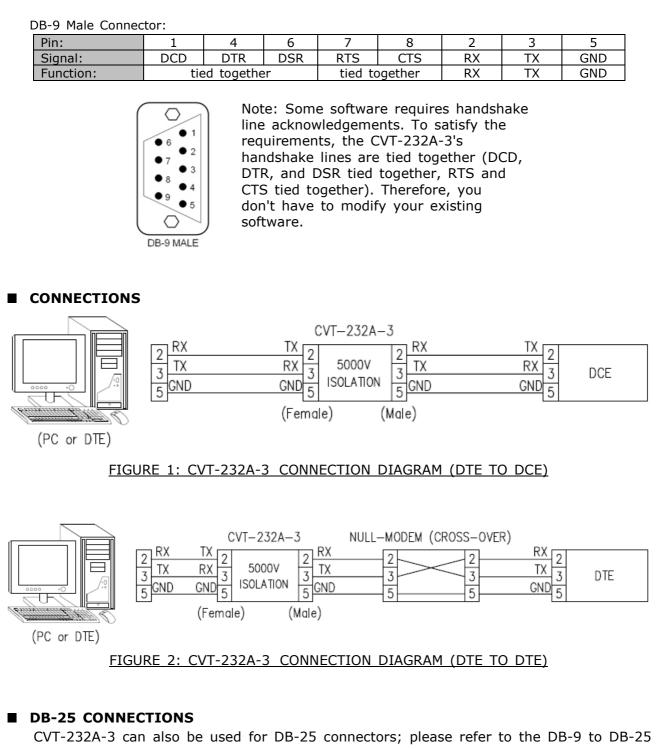
DB-9 Female Connector:

Pin:	1	4	6	7	8	2	3	5
Signal:	DCD	DSR	DTR	CTS	RTS	TX	RX	GND
Function:	ti	ed togethe	tied to	gether	TX	RX	GND	



Note: Some software requires handshake line acknowledgements. To satisfy the requirements, the CVT-232A-3's handshake lines are tied together (DCD, DSR, and DTR tied together, CTS and RTS tied together). Therefore, you don't have to modify your existing software.

DB-9 FEMALE



conversion table below:

DB-9 Pin:	1	2	3	4	5	6	7	8	9
DB-25 Pin:	8	3	2	20	7	6	4	5	22
Signal:	DCD	RX	ΤX	DTR	GND	DSR	RTS	CTS	RI

■ TROUBLESHOOTING

Perform a loopback test by using CommFront's 232Analyzer software: Connect the female connector end of the isolator to your PC's COM port and connect the other end (male connector) to another of your PC's COM ports with a null-modem converter (or connect pin 2 to 3, pin 3 to 2, and pin 5 to 5). Then, run two instances of the 232Analyzer software on your PC. When you send commands from one COM port, you should receive the same commands from the other COM port. By performing a simple loopback test like this, you can test both the transmitter and receiver of your isolator. This is very helpful when you are in doubt about the performance of your isolator.

