

Quick Start Guide

ILinx Hardened 232OPDRI-PH Triple Isolated RS-232 Repeater



1. Check for Required Hardware

- ILinx 232OPDRI-PH RS-232 Isolated Repeater
- This Quick Start Guide
- Additional Items Required but not included
 - o A 10 to 48 VDC Power Supply.
 - o Two RS-232 cables.
 - o Ground Cable

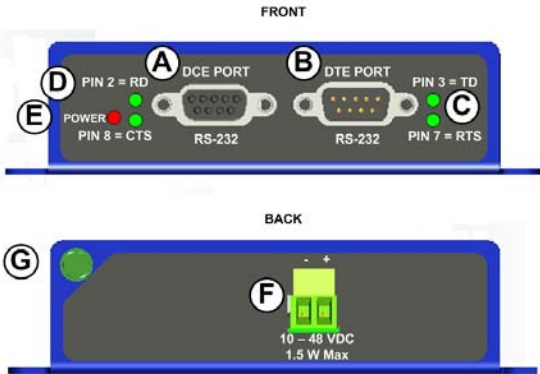
2. Certifications



- FCC Class A
- CE
- IEC 61850-3
- IEEE 1613

A detailed declaration of conformity is available for download at www.bb-elec.com

3. Front & Back Panel

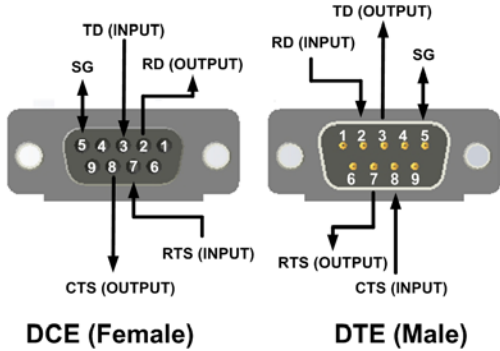


Front and Back Panel

A	DB9 Female	DCE Port
B	DB9 Male	DTE Port
C	Pin 3 LED	Green, ON when a TD input (PIN 3) is raised on the DCE Port.
	Pin 7 LED	Green, ON when a RTS input (PIN 7) is raised on the DCE Port.
D	Pin 2 LED	Green, ON when a RD input (PIN 2) is raised on the DTE Port.
	PIN 8 LED	Green, ON when a CTS (PIN 8) input is raised on the DTE Port.
E	Power LED	Red, ON When Power Applied
F	Power TB	2 Position, Removable (10–48 VDC)
G	GND	Grounding Lug

4. RS-232 Connections

1. Connect your RS-232 Devices.



2. A DTE device is "Data Terminal Equipment" this includes Computers, PLC's, and most devices which are not used to extend communications. Think **COMPUTER** for DTE.

3. A DCE device is "Data Communications Equipment", this includes devices intended to plug directly into a DTE port, Modems and devices that extend communications like a modem, such as RS-422, RS-485, or Fiber Optic converters or Radio Modems. Think **MODEM** for DCE.

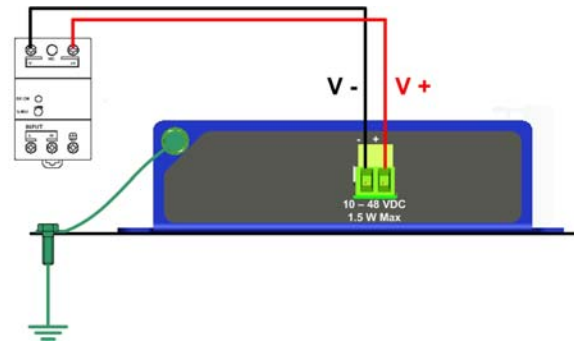
5. Ground Connection

1. It is recommended to ground the chassis.
2. Connect a grounding wire from the ground lug to a good source of Earth Ground.

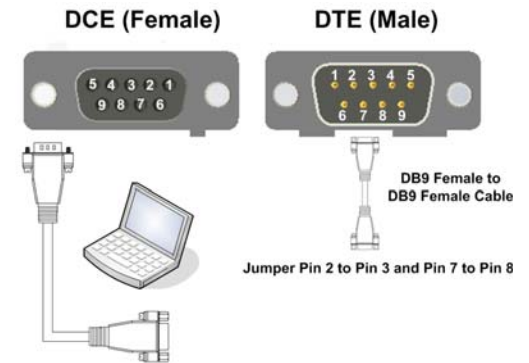


6. Power Connection

1. Connect Power. Power Requirements: 10 to 48 VDC, the repeater draws 1.5W maximum.
2. The terminal block will accept 28 to 12 AWG wire.



7. Loop Back Test / Troubleshooting



- Use a DB9 Female to DB9 Male cable to connect a PC to the DCE port.
- (Recommended) Connect a DB9 Female to DB9 Female cable to the DTE port.
- On the DTE Port, jumper pin 2 to 3 and pin 7 to 8 on the female end of the cable. This loops TD to RD and CTS to RTS.
- Using hyper terminal or similar program, connect to the appropriate COM port (remember to set the baud rate to 9600). Turn off hyper terminal local echo
- Transmit data. The same data should be returned. The LED indicators should light per the table in section three.