

# Quick Start Guide

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



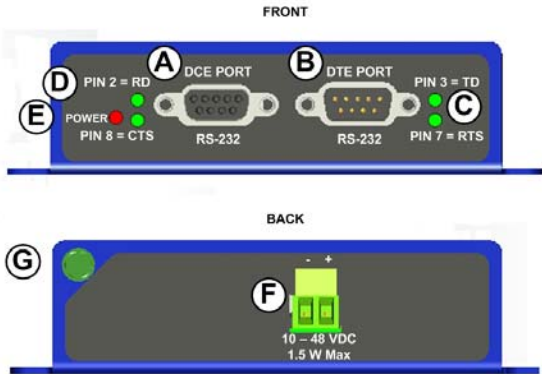
### 1. Check for Required Hardware

- 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. Information – UL Class 1 Div 2

1. Power, Input / output (I/O) wiring for the end use enclosure must be in accordance with Class 1 Division 2 wiring methods (Article 501.10(B) of the National Electric Code, NFPA 70) and in accordance with the local authority having jurisdiction.
2. Temperature rating of field installed conductors 105°C. Use copper wire only.
3. Maximum ambient air temperature 85°C.
4. These devices must be installed in end use enclosure suitable for the location.
5. **WARNING – EXPLOSION HAZARD**  
SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS 1, DIVISION 2.
6. **WARNING – EXPLOSION HAZARD:** DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON-HAZARDOUS.
7. **WARNING – THIS APPARATUS IS SUITABLE FOR USE IN CLASS 1 DIVISION 2, GROUPS A, B, C, AND D OR NONHAZARDOUS LOCATIONS ONLY.**

### 3. Front & Back Panel

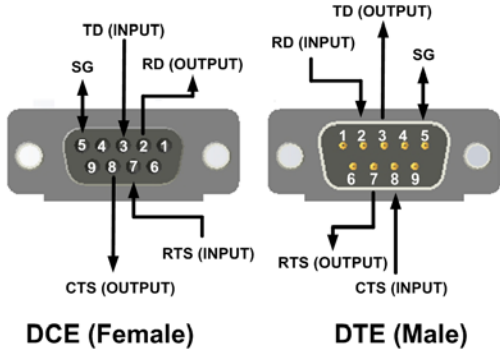


Front and Back Panel

<b>A</b>	DB9 Female	DCE Port
<b>B</b>	DB9 Male	DTE Port
<b>C</b>	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.
<b>D</b>	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.
<b>E</b>	Power LED	Red, ON When Power Applied
<b>F</b>	Power TB	2 Position, Removable (10-48 VDC)
<b>G</b>	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**.

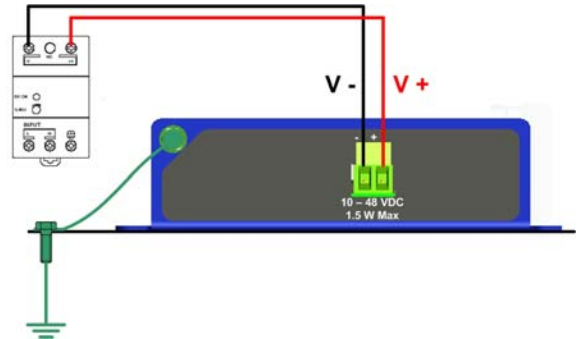
### 5. Ground Connection

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

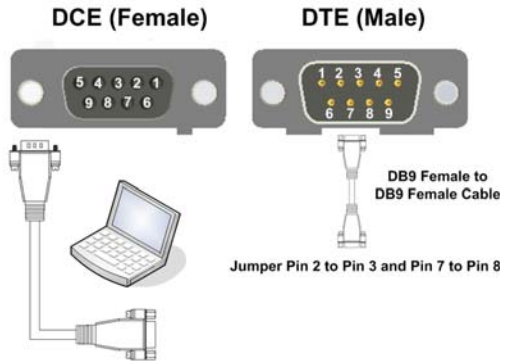


### 6. Power Connection

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.