EthLinx[1], EthLinx Duo[2]

Quick Start Guide

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A Note on Product Models

This guide covers the entire EthLinx family for TIA-485-A / RS-485. Superscript numbers are used to denote features specific to a model:

- **EthLinx[1]:** 1 Serial Channel

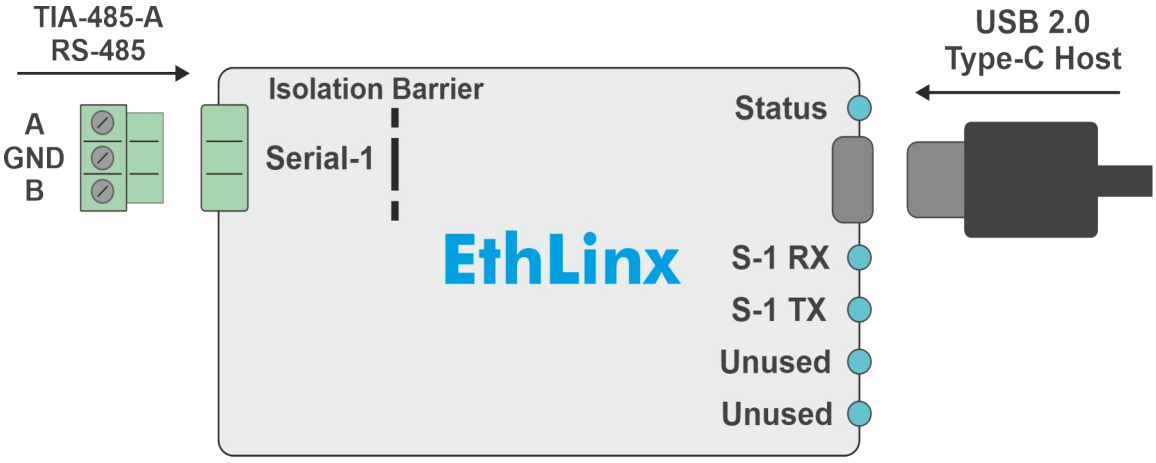

Image 1: Basic Wiring Diagram with serial connections and LED description - EthLinx

- **EthLinx Duo[2]:** 2 Serial Channels

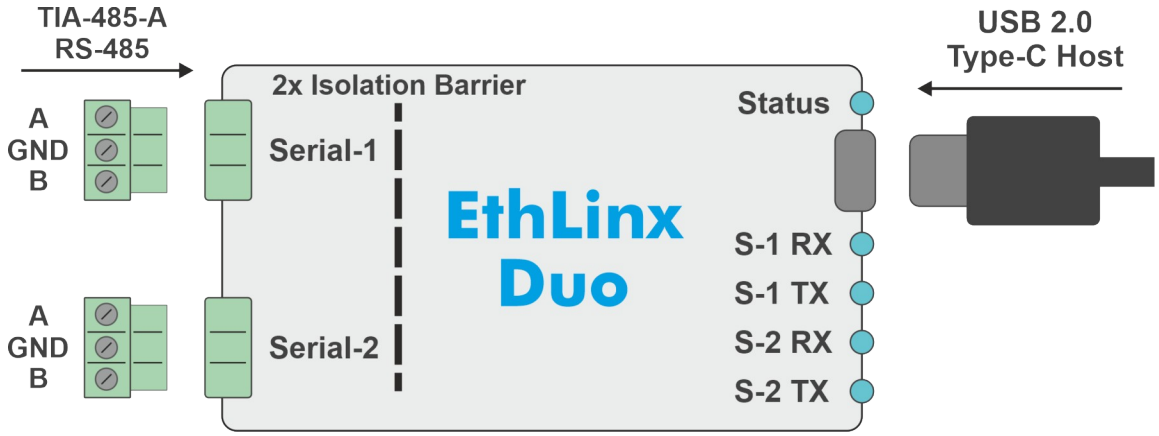

Image 2: Basic Wiring Diagram with serial connections and LED description – EthLinx Duo

1. Key Specifications at a Glance

Parameter	Value
Device IP Address	`192.168.222.1`
Hostname	`ethlinx.tech` `ethlinx, converter`
USB Interface	USB 2.0 Full Speed (12 Mbps)
Serial Interface	TIA-488-A RS-485 (2-wire, half-duplex)
Isolation	1.5kV DC, 3kV AC Transient
Baud Rate Range	2400 Bd to 2 MBd
Concurrent TCP Connections	2 per serial channel
TCP Port - Serial 1 [1] [2]	`11000`
TCP Port - Serial 2 [2]	`12000`
Power Supply	5V DC via USB Type-C (Typ. 80 mA, Max. 500 mA)

2. Quick Start in 5 Steps

Step 1: Connect Hardware

1. Wire your RS-485 device to the provided 3-position pluggable terminal block (Pay attention to **A**, **B**, and **GND**).
2. Insert the terminal block into the desired `Serial-X` port on the EthLinx.
3. Connect the EthLinx to your computer using the provided USB Type-C cable.

Step 2: Understand the LEDs

After a brief startup sequence, the main **Power** LED will blink Green and Blue, indicating it's ready. The other LEDs show data traffic.

LED	Color	Meaning
Power	Green + Blue	Device is ready for operation.
Channel TX/RX	Green (Solid/Blinking)	Data is being transmitted or received. RX Signals data from Serial-X to the TCP port TX Signals data from TCP to Serial-X port
	Purple (Blinking)	Serial data received, but no TCP client is connected (data dropped).
	Red (Blinking)	Bus error (e.g., baud rate mismatch, noise, collision).

Step 3: Access the Web Interface

1. The device will appear as a new network adapter on your computer and automatically assign an IP address.
2. Open a web browser and navigate to **`http://192.168.222.1`** or **`http://ethlinx.tech`** or **`http://ethlinx`**
3. You should see the device's Dashboard.

Step 4: Configure the Serial Port

1. In the web interface, go to the **Settings** page.
2. Select the tab for the serial channel you are using (e.g., `Serial-1`).
3. Set the **Baud Rate**, **Parity**, and **Stop Bits** to match your RS-485 device.
4. Enable **Termination** if the EthLinx is at the physical end of the RS-485 bus.
5. Click **"Save Settings"**.

Step 5: Establish a TCP Connection

1. Open your TCP client software (e.g., PuTTY, Python script...).
2. Connect to the device's IP address (`192.168.222.1`) and the corresponding TCP port for your serial channel (e.g., `11000` for Serial-1).
3. Once connected, any data you send to the socket will be transmitted on the RS-485 line, and any data from the RS-485 line will be sent to your socket.

You are now ready to communicate! For more advanced settings, please refer to the full User Guide (User Guide DM110010485-01EN).