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 non-isolated UART serial bus. Superscript numbers are used to denote features specific to a model:

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

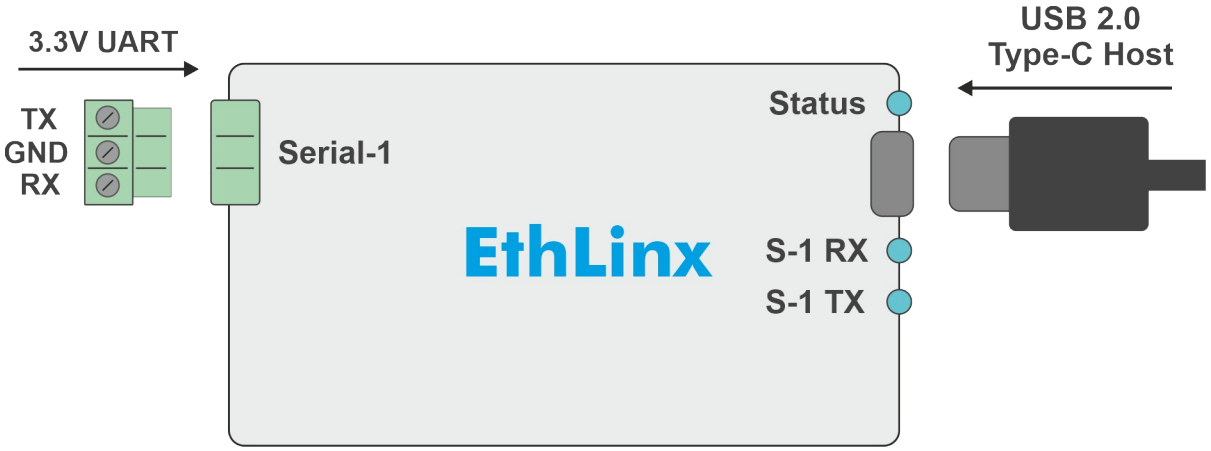

Image 1: Basic Wiring Diagram with serial connections and LED description - EthLinx

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

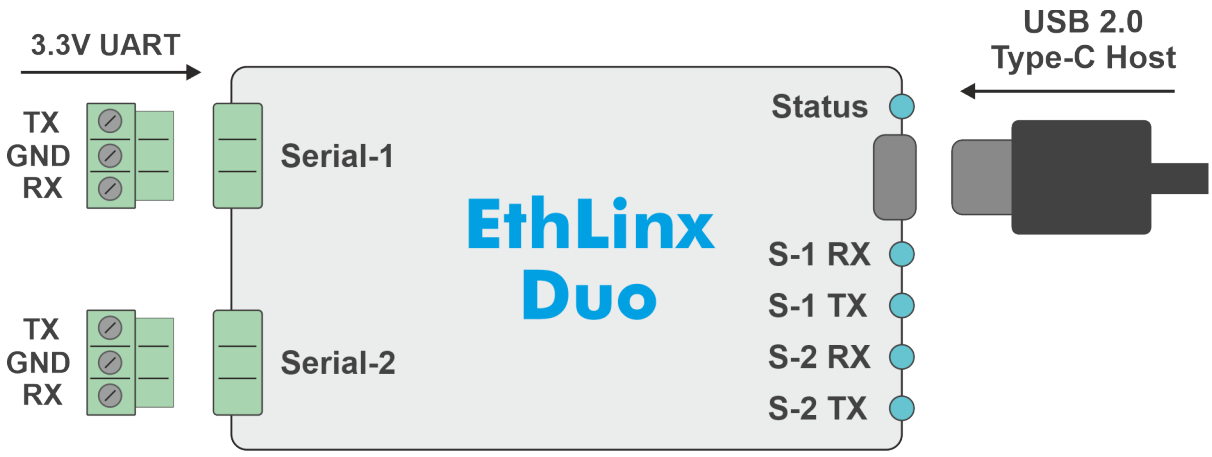

Image 2: Basic Wiring Diagram with serial connections and LED description – EthLinx Duo

Data lines named from the EthLinx device perspective.

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	3.3V UART (2-wire, full-duplex)
Isolation	-
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. 120 mA)

2. Quick Start in 5 Steps

Step 1: Connect Hardware

1. Wire your UART serial device to the provided 3-position pluggable terminal block (Pay attention to **TX**, **RX**, 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 UART serial device.
4. Click **"Save Settings For Serial-X"**.

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 UART serial line, and any data from the UART serial 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 DM110110033-01EN).