

Zentro Link

Installation Guide

Part number ZN-LINK-001 · Document number ZT-IG-LINK-001-EN

SAFETY

WARNING

Disconnect the supply before any wiring work. Working on a live circuit risks personal injury and irreversible damage to the unit.

CAUTION

A line terminator fitted at more than two points will load the line and degrade communication.

NOTE

Add external protection to every inductive load — an RC circuit, a varistor or a diode.

MECHANICAL INSTALLATION

Mounting	35 mm DIN rail inside a distribution enclosure, or a cabinet mounting plate (ordered separately)
Mounting orientation	Vertical or horizontal
Operating temperature	0 ... +55 °C
Humidity	10 – 95 %, non-condensing
Ingress protection	IP 20

Installation sequence

1. Ensure the supply is disconnected before any work.
2. Clip the unit onto a 35 mm DIN rail, or fit it to a cabinet mounting plate.
3. Connect the 9–30 V DC supply to the VCC and GND terminals, conductor cross-section up to 2.5 mm².
4. Connect the RS-485 lines to the A and B terminals, conductor cross-section up to 1.5 mm².
5. Fit a line terminator at the two ends of each line only, using the RS485-END switch.
6. Connect the Ethernet network to either connector; both interfaces operate as a switch.
7. Tighten the terminals to no more than 0.4 N·m.
8. Apply power and confirm that the PWR indicator lights and that the ACT indicator turns on with short flashes.

Removal from the DIN rail

Disconnect the supply and every field cable, release the DIN rail clip with a flat screwdriver, pull the bottom of the unit outwards and lift it off the rail.

CONNECTING THE SUPPLY

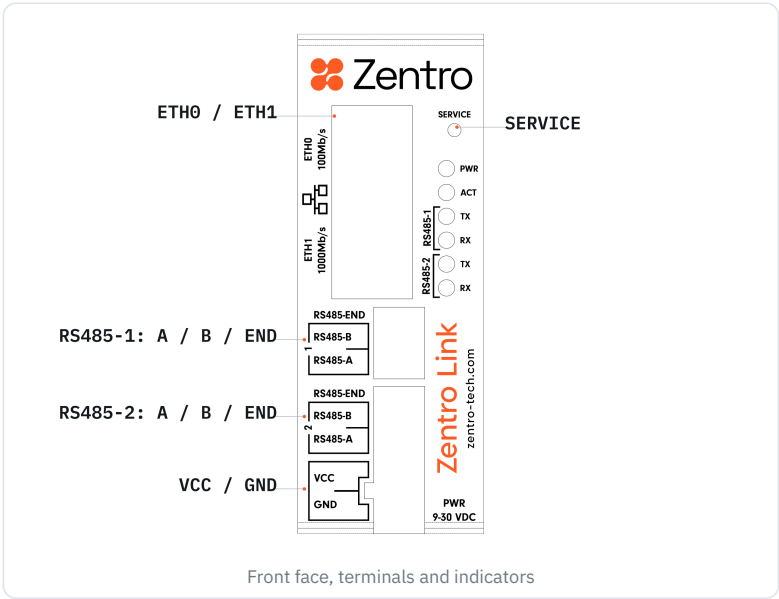
Supply voltage	9 – 30 V DC (SELV)
Maximum power consumption	12 W
Reverse polarity protection	Yes
Conductor cross-section	RS-485 up to 1.5 mm²; supply up to 2.5 mm²
Tightening torque	Max 0.4 N·m

Terminal pitch	RS-485 3.5 mm; supply 5.08 mm
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CONNECTING THE RS-485 LINE

RS-485 channels	2
RS-485 galvanic isolation	Yes, 1 000 V isolation
Biasing resistors	560 Ω
Line terminator	Built-in, attachable, 120 Ω
Ethernet	1 × 1 Gbit and 1 × 100 Mbit, both ports operating as a switch

TERMINALS AND CONNECTORS



ETH0 / ETH1	Two network interfaces operating as a switch
RS485-1: A / B / END	First serial line — /dev/ttyS1
RS485-2: A / B / END	Second serial line — /dev/ttyS2
VCC / GND	Supply, 9–30 V DC
SERVICE	Service-mode button