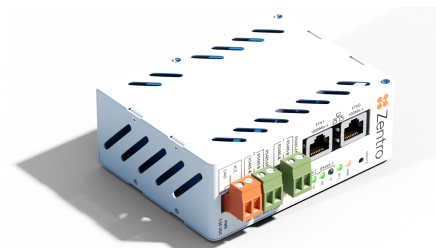


Zentro Link

Communication gateway and logic controller

Zentro Link is a programmable Linux-based communication gateway and logic controller. It provides two galvanically isolated RS-485 lines and two Ethernet interfaces operating as a switch, connecting serial Modbus RTU equipment to the IP network, collecting data and running local control logic. The unit mounts on a 35 mm DIN rail or on a cabinet mounting plate and accepts a wide 9–30 V DC supply.



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

FULL TECHNICAL SPECIFICATION

PRODUCT IDENTITY

Zentro part number	ZN-LINK-001
Category	Communication gateway and programmable logic controller on Linux
Processor	Quad-core 600 MHz ARM Cortex-A53
Memory	1 GB DDR4
Storage	32 GB eMMC, expandable by microSD up to 128 GB

INPUTS AND OUTPUTS

Digital inputs	0
Digital outputs	0
Relay outputs	0
Analogue inputs	0
Analogue outputs	0
Total I/O points	0
User LEDs	One status LED, freely programmable through the operating system LED interface

COMMUNICATION INTERFACES

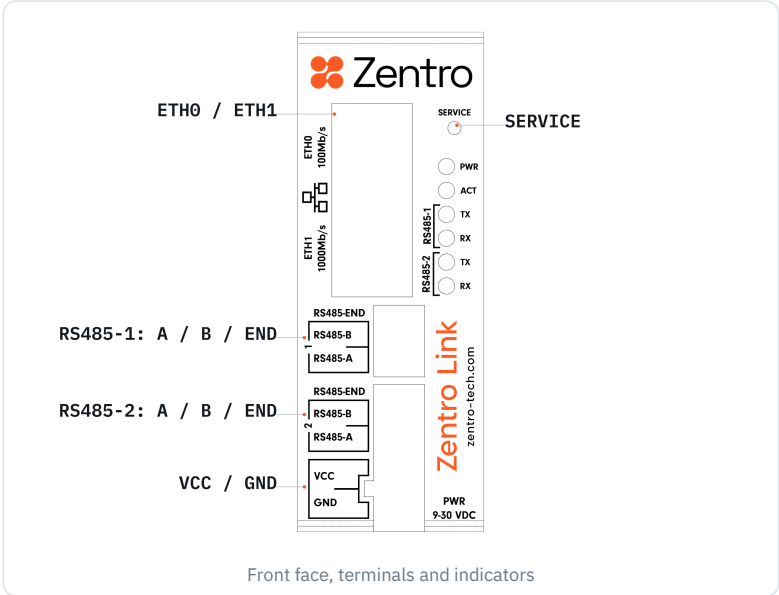
RS-485 channels	2
RS-485 galvanic isolation	Yes, 1 000 V isolation
Biasing resistors	560 Ω
Line terminator	Built-in, attachable, 120 Ω
RS-485 ESD protection	± 15 kV
Ethernet	1 $\times$ 1 Gbit and 1 $\times$ 100 Mbit, both ports operating as a switch
USB	1 $\times$ USB 3.0 (service)
Protocols	Modbus RTU over the serial lines; network protocols according to the installed software

POWER SUPPLY

Supply voltage	9 – 30 V DC (SELV)
Typical power consumption	3 W

Maximum power consumption	12 W
Reverse polarity protection	Yes
ENVIRONMENTAL CONDITIONS	
Operating temperature	0 ... +55 °C
Storage temperature	-25 ... +70 °C
Humidity	10 – 95 %, non-condensing
Ingress protection	IP 20
MECHANICAL AND INSTALLATION	
Dimensions (W × H × D)	35 × 94 × 70 mm
Weight	140 g
Enclosure	Aluminium
Mounting orientation	Vertical or horizontal
Mounting	35 mm DIN rail inside a distribution enclosure, or a cabinet mounting plate (ordered separately)
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
STANDARDS AND APPROVALS	
EU directives	EMC 2014/30/EU · RoHS 2015/863/EU · WEEE 2012/19/EU
Standards	EN 60730-1 ed.4:2017

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

STANDARDS AND COMPLIANCE

Compliance	The product carries the CE marking.
Compliance	Complies with EU directives EMC 2014/30/EU, RoHS 2015/863/EU and WEEE 2012/19/EU.
Standard	Conforms to EN 60730-1 ed.4:2017.
Performance	Ingress protection IP 20 per IEC 529.
Performance	Safety extra-low voltage (SELV) supply, 9 to 30 V DC.
Performance	Galvanically isolated serial lines, 1 000 V isolation.



Compliance evidence is supplied on request.