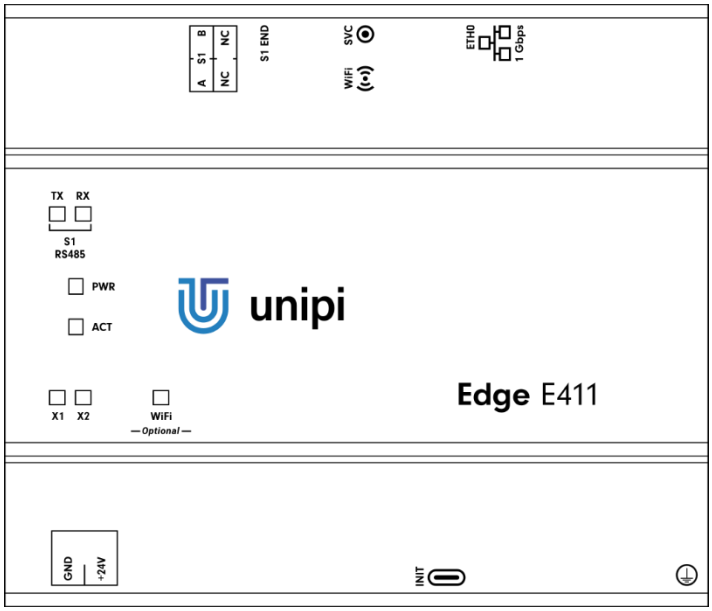
Unipi Edge E411



General

Compute module	Raspberry Pi Compute Module 4
Processor	quad-core CPU (Arm© Cortex©-A72, max. 1.5 GHz)
RAM	LPDDR4 RAM
Size of RAM	Options 1, 2, 4 or 8 GB
Internal storage	eMMC
Size of internal storage	Options 8, 16 or 32 GB
Retain memory	NVRAM
Size of retain memory	128 kB
TPM 2.0	Yes
Hardware Watchdog	Yes
User LED	2 × green
Operating System	Linux based OS – Debian

Communication

Ethernet	1 × 1 Gbps Ethernet
Serial/bus channels	1 × RS-485
RS-485 baudrates	50 baud ... 3 000 000 baud
RS-485 pull-up resistor	Yes, 560 Ω
RS-485 pull-down resistor	Yes, 560 Ω
RS-485 terminating resistor	Build-in attachable, 120 Ω
RS-485 galvanic isolation	Yes, see manual for more details

WLAN (Optional)

Optional variants	Without WLAN Wi-Fi and Bluetooth
Wi-Fi	2.4 GHz, 5 GHz IEEE 802.11b/g/n/ac
Bluetooth	5.0, Low energy (BLE)
WLAN antenna connector	RP-SMA female

Installation and operating conditions

Operational conditions	Temperature range -20 ... 60 °C, relative humidity 10 ... 95 %, without aggressive substances, condensing vapor and fog, Altitude up to 2000 m
Storing conditions	Temperature range -40 ... 85 °C, relative humidity 10 ... 95 %, without aggressive substances, condensing vapor and fog
EMC immunity zone	B (IEC 61000-6-2 compliant)
Protection class	III
Overvoltage category	II
Pollution degree	2
Ingress Protection (IEC 529)	IP 20
Operation position	Horizontal inside vertical enclosure
Installation	On DIN rail (EN 60715, 35 mm) into distribution box (holder and screws included)

Connectors

Connector purpose	**Power supply**	**Other**
Min. wire gauge	0.75 mm^2, AWG18	0.2 mm^2, AWG24
Max. wire gauge	2.5 mm^2, AWG14	1.5 mm^2, AWG16
Terminal pitch	5.08 mm	3.5 mm
Max. tightening torque	0.4 Nm	-
Connector type	Pluggable terminal blocks	

Power supply

Reverse polarity protection	Yes
Rated voltage – SELV (recommended)	24 V⎓
Absolute limits of input voltage	10.2 V⎓ ... 32.2 V⎓
Typical input current (at rated voltage, 24 V⎓)	0.18 A
Max. input current (at rated voltage, 24 V⎓)	0.7 A
RTC power supply	CR2032 lithium battery, lifetime approx. 10 years

Dimensions and weights

Dimensions (W × H × D)	108 × 90 × 56 mm	
Weight	Approx. 200 g	
DIN holder variant	**Default**	**Alternative**
Name	AL	TSH-35
Holder thickness	3.5 mm	7 mm
Holder weight	61 g	14 g
Holder material	Aluminium	Plastic

Directive compliance

EMC, RED, RoHS, WEEE