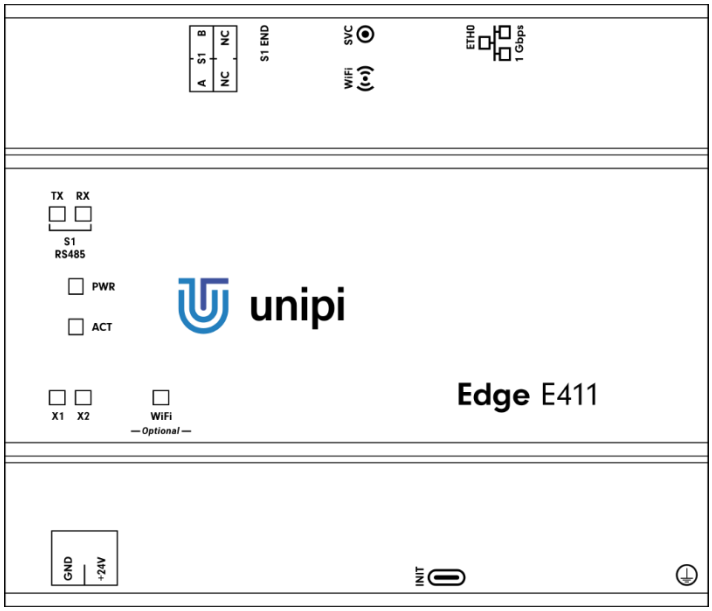
Unipi Edge E411



Installation and operating conditions

Control type by purpose	Operating control
Control type by design	Independently mounted control
Operational conditions	Temperature range -20 ... 60 °C, relative humidity 10 ... 95 %, without aggressive substances, condensing vapor and fog, Altitude up to 2000 m
Storage 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
Automatic action control type	1
Software function class	A
Control function class	A
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)

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	6 DIN modules
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

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	

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	Built-in attachable, 120 Ω
RS-485 galvanic isolation	Functional, 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
Frequency ranges (5 GHz)	5150–5350 MHz, 5470–5725 MHz
Bluetooth	5.0, Low energy (BLE)
RF power (max.)	max. 20 dBm (2.4 GHz) / 23 dBm (5 GHz) e.i.r.p.
WLAN antenna connector	RP-SMA female

Directive compliance

RED 2014/53/EU	
GPSR 2023/988/EU	EN IEC 60730-1
EMC 2014/30/EU	EN IEC 61000-6-2 EN IEC 61000-6-3
RoHS 2015/863/EU	
WEEE 2012/19/EU	