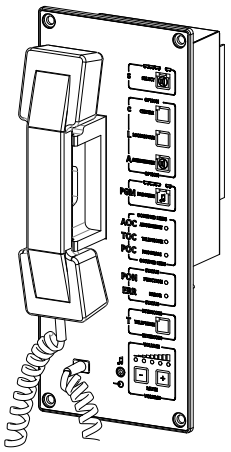
Industrial
Control Systems

RRAM-MCT/E12-xx

UIC 568 audio Gateway for rolling stock

- **2 × Power audio output 30 W**
- **1 × audio input**
- **1 × Ethernet 100 Mbps, M12**
- **1 × UIC interface**
- **2 × STDP relay output**
- **Panel mounting**
- **Design according EN 50155:2007**
- **Device meets the UIC558 and UIC568 requirements**



TECHNICAL DATA

Phone handset	
Handset fixation	Magnetic holder
Buttons	8 × buttons under foil with LED indication
Lifetime	10^6 operations each button
External audio input	2 ×
Signal amplitude	0,707 V_{eff}
Galv. separation/ insulation strength [1)]	Yes, 1 kV AC / 1 minute
Connection point	3.5 mm stereo jack WAGO 769-675/003-000
Digital input	1 ×
Input voltage range	0 V to 30 V DC
Max. level of input voltage for Log. 0	7.0 V DC
Min. level of input voltage for Log. 1	9.2 V DC
Galv. separation/ insulation strength [1)]	Yes, 1 kV AC / 1 minute
Power audio output	2 ×
Permanent output sine wave power (THD = 1 %)	2 × 30 W
Peak music power output	2 × 48 W
Minimum load impedance	6 Ω / channel
UIC interface	1 ×
Standard	UIC558, UIC568
Connection point	WAGO 769-668/003-000
Relay outputs	2 ×
Type	STDP
Galv. separation/ insulation strength [1)]	Yes, 1 kV AC / 1 minute
Ethernet interface	1 × Ethernet 100 Mbps
Galv. separation/ insulation strength [1)]	Yes, 1 kV AC / 1 minute
Connection point	M12, 4 pins, D-Code
Power supply	16.8 V DC to 30 V DC
Power consumption	Max. 6.2 A at 24 V DC
Others	
Acoustic indication	1 × Internal speaker
Connection point	WAGO 769-675/003-000
Ingress protection rate – front panel – rear panel	IP40 IP20
Operating / storage temperatures range	-40 °C to 70 °C
Maximum ambient humidity	< 95 %, non-condensing
Mounting	On the wall, 4 × 7 mm hole
Weight	2.46 kg
Dimensions (w × h × d) [2)]	(140 × 330 × 149) mm

[1)] Insulation must not be used for dangerous voltage separation.
[2)] Depth of exchange unit including handset.

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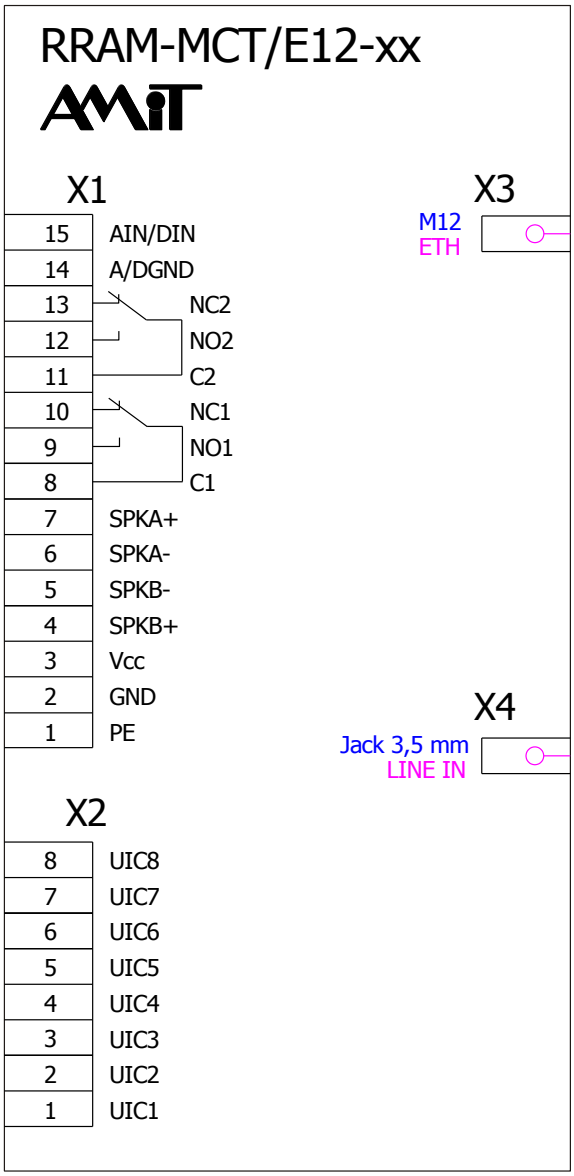
ORDERING INFORMATION

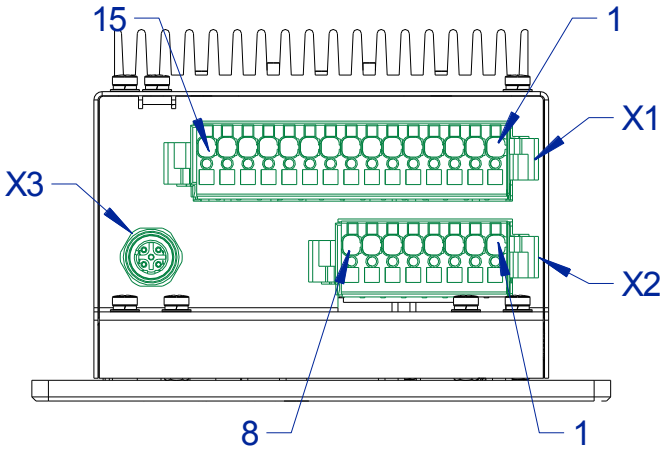
RRAM-MCT/E12-xx *)	UIC audio gateway, WAGO counter connectors, Certificate of product quality and completeness, Routine testing protocol, Insulation testing protocol

*) xx represents foil version, which can be customized (colour and font).

RECOMMENDED DRAWING SYMBOL



TERMINALS PLACEMENT



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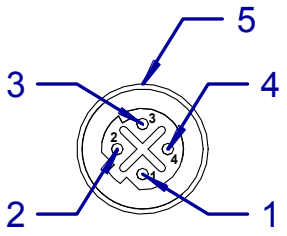
TERMINAL'S IDENTIFICATION

System connector	PIN	Signal	Description
X1	1	PE	Unit chassis
	2	GND	Power supply, ground
	3	Vcc	Power supply, +24 V DC
	4	SPKB+	Audio output B +
	5	SPKB-	Audio output B -
	6	SPKA-	Audio output A -
	7	SPKA+	Audio output A +
	8	C1	Relay 1 – common pin
	9	NO1	Relay 1 – normal open
	10	NC1	Relay 1 – normal connect
	11	C2	Relay 2 – common pin
	12	NO2	Relay 2 – normal open
	13	NC2	Relay 2 – normal connect
	14	A/DGND	Analog / digital ground
	15	AIN/DIN	Analog / digital signal input

Relay 1 is reserved for "Priority announcement" functionality. Default state is "No announcement".
Relay 2 is reserved for "Local loudspeaker off" functionality. Default state is a "Loudspeaker On".

UIC interface connector	PIN	Signal	UIC558 Signal type	UIC558 conductor number
X2	1	UIC1	NF link to main amplifiers +	1
	2	UIC2	NF link to main amplifiers -	2
	3	UIC3	Phone link +	3
	4	UIC4	Phone link -	4
	5	UIC5	Public address system +	5
	6	UIC6	Public address system -	6
	7	UIC7	Priority for announcements +	7
	8	UIC8	Priority for announcements -	8

ETHERNET connector	PIN	Signal	Description
X3	1	Tx+	Transmit data positive
	2	Rx+	Transmit data negative
	3	Tx-	Receive data positive
	4	Rx-	Receive data negative
	5	SHLD	Cable shielding



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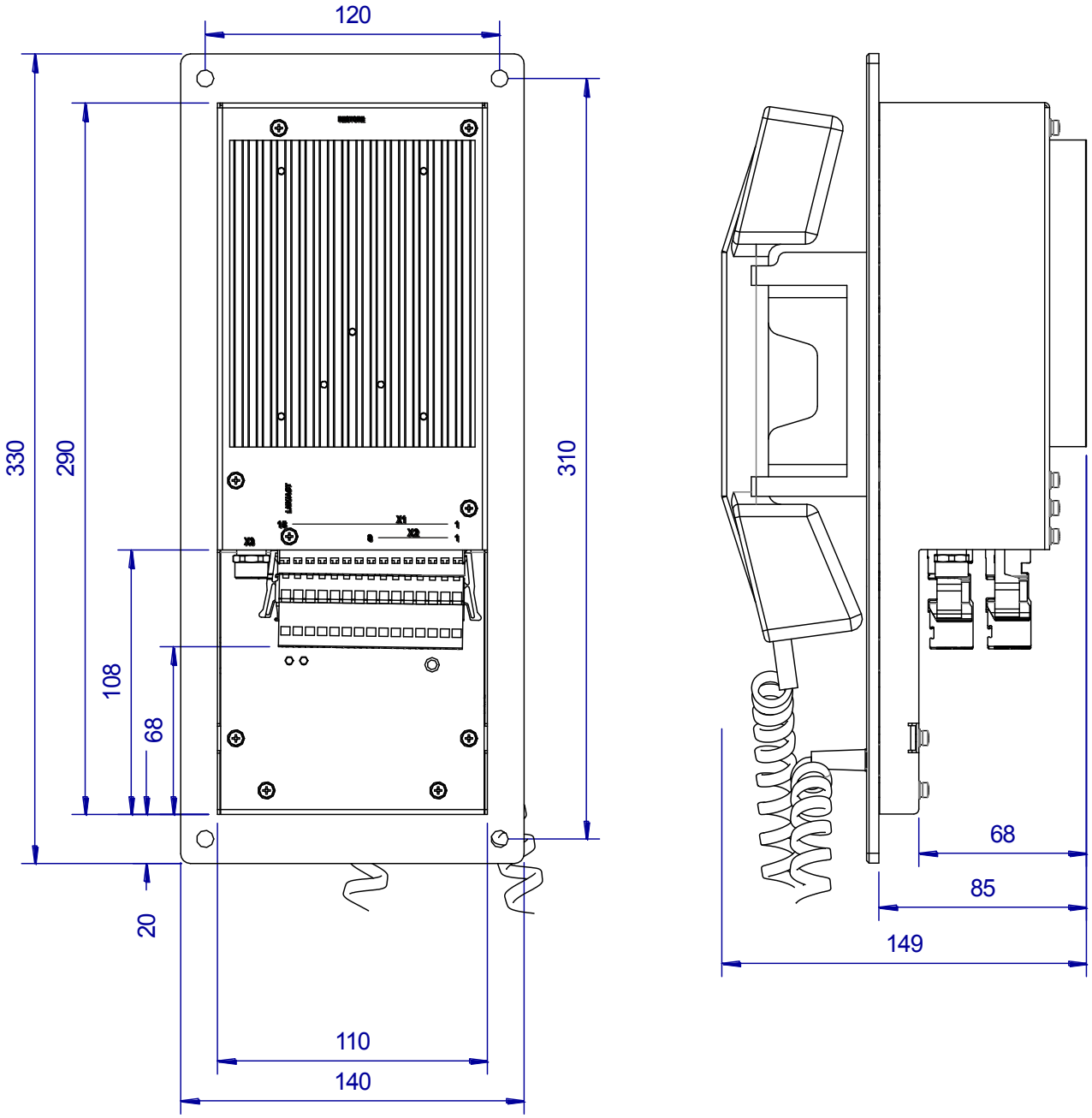
DIMENSIONS



Data provided in this datasheet are only informative. Detailed information can be found in operation manual (**rram-mcte12-xx_g_en_xxx.pdf**).
Documentation can be downloaded from **www.amit-transportation.com**.