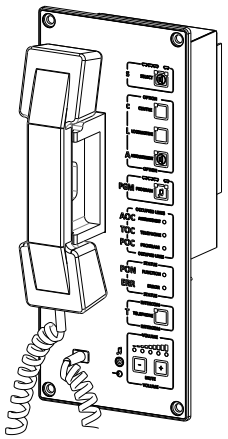
RRAM-MCT/E20-xx

Train audio exchange unit according to UIC 568

- **2 × Power audio output 30 W**
- **1 × Audio input**
- **2 × Digital input**
- **1 × Ethernet, connector M12**
- **1 × UIC interface**
- **2 × Relay output**
- **Mounting into panel**
- **Compliant with EN 50155, UIC568**



TECHNICAL DATA

Phone handset	
Handset fixation	Magnetic holder
Button for call indication	1 ×
Buttons	8 × button with signal under foil
Lifetime	10^6 operations each button
Audio input	1 ×
Signal amplitude	0,707 V_{ef}
Galvanic isolation / isolation strength [1])	Yes, 1 kV AC / 1 minute
Connection point	Stereo jack 3.5 mm / WAGO 769
Digital input	2 ×
Power supply voltage range	0 V DC to 30 V DC
Galvanic isolation / isolation strength [1])	Yes, 1 kV AC / 1 minute
Connection point	WAGO 769-668/003-000
Power audio output	2 ×
Permanent output sinus 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 ×
Relay type	Switching
Galvanic isolation / isolation strength [1])	Yes, 1 kV AC / 1 minute
Ethernet interface	1 × Ethernet 100 Mbps
Galvanic isolation / isolation 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
Ingress protection rate – front panel – back cover	IP40 IP20
Working / Storage temperature	-40 °C to 70 °C
Maximum ambient humidity	< 95 % non-condensing
Mounting	Into panel, 4 × hole Ø 7 mm
Weight	2.61 kg
Dimensions (w × h × d) [2])	(140 × 330 × 149) mm

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

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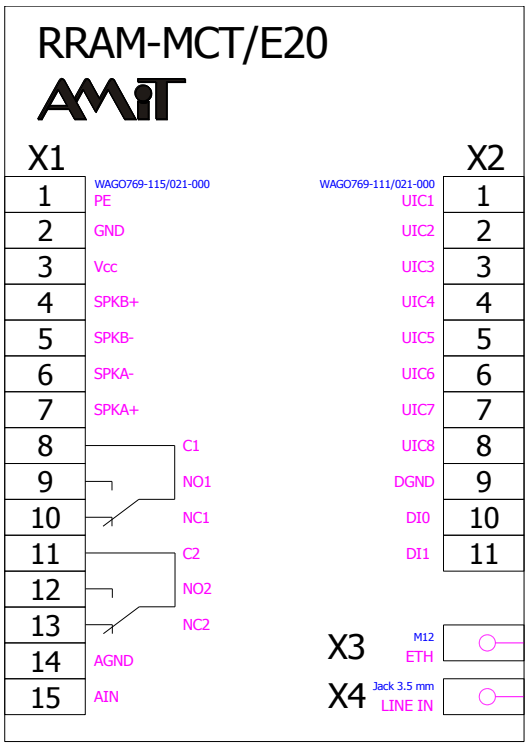
ORDERING INFORMATION

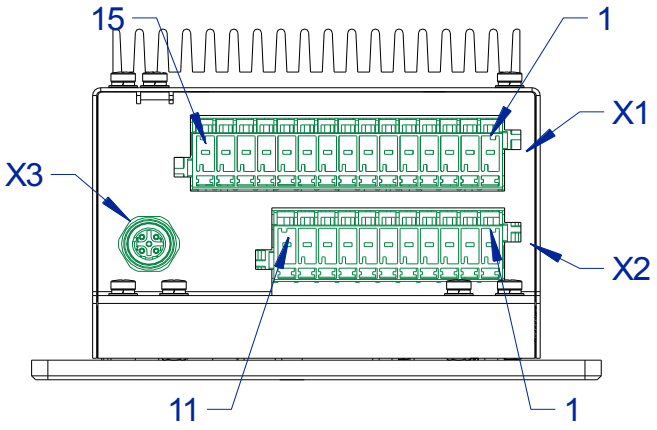
RRAM-MCT/E20-xx *)	UIC exchange unit, WAGO connector counterparts, Certificate of product quality and completeness, routine test protocol, insulation test protocol.

*) xx marks foil version, which can be customized (colour, font) by customer.

RECOMMENDED DRAWING SYMBOL



LOCATION OF CONNECTORS



RRAM-MCT/E20-xx

Train audio exchange unit according to UIC 568

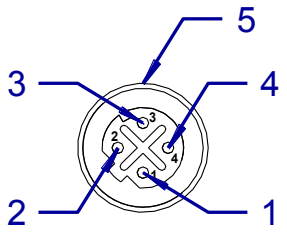
IDENTIFICATION OF TERMINALS

System connector	PIN	Signal	Description
X1	1	PE	Chassis, grounding
	2	GND	Power supply, ground
	3	Vcc	Power supply input, +24 V DC
	4	SPKB+	Output of channel B +
	5	SPKB-	Output of channel B -
	6	SPKA-	Output of channel A -
	7	SPKA+	Output of channel A +
	8	C1	Relay 1, common pole
	9	NO1	Relay 1, switching pole, normal open
	10	NC1	Relay 1, switching pole, normal connect
	11	C2	Relay 2, common pole
	12	NO2	Relay 2, switching pole, normal open
	13	NC2	Relay 2, switching pole, normal connect
	14	AGND	Ground for analogue input
	15	AIN	Analogue input

Relay 1 is reserved for “Priority announcement” function. Default state is “No announcement”.
Relay 2 is reserved for “Local speaker” function. Default state is “Speaker ON”.

Connector UIC connection	PIN	Signal	Description according to UIC558	UIC558 conductor number
X2	1	UIC1	Audio signal of announcement +	1
	2	UIC2	Audio signal of announcement -	2
	3	UIC3	Phone line +	3
	4	UIC4	Phone line -	4
	5	UIC5	Indication of program announcement +	5
	6	UIC6	Indication of program announcement -	6
	7	UIC7	Indication of priority announcement +	7
	8	UIC8	Indication of priority announcement -	8
	9	DGND	Ground for digital inputs	-
	10	DI0	Digital input 0	-
	11	DI1	Digital input 1	-

ETHERNET connector	PIN	Signal	Description
X3	1	Tx+	Data transmission positive signal
	2	Rx+	Data reception positive signal
	3	Tx-	Data transmission negative signal
	4	Rx-	Data reception negative signal
	5	SHLD	Cable shielding



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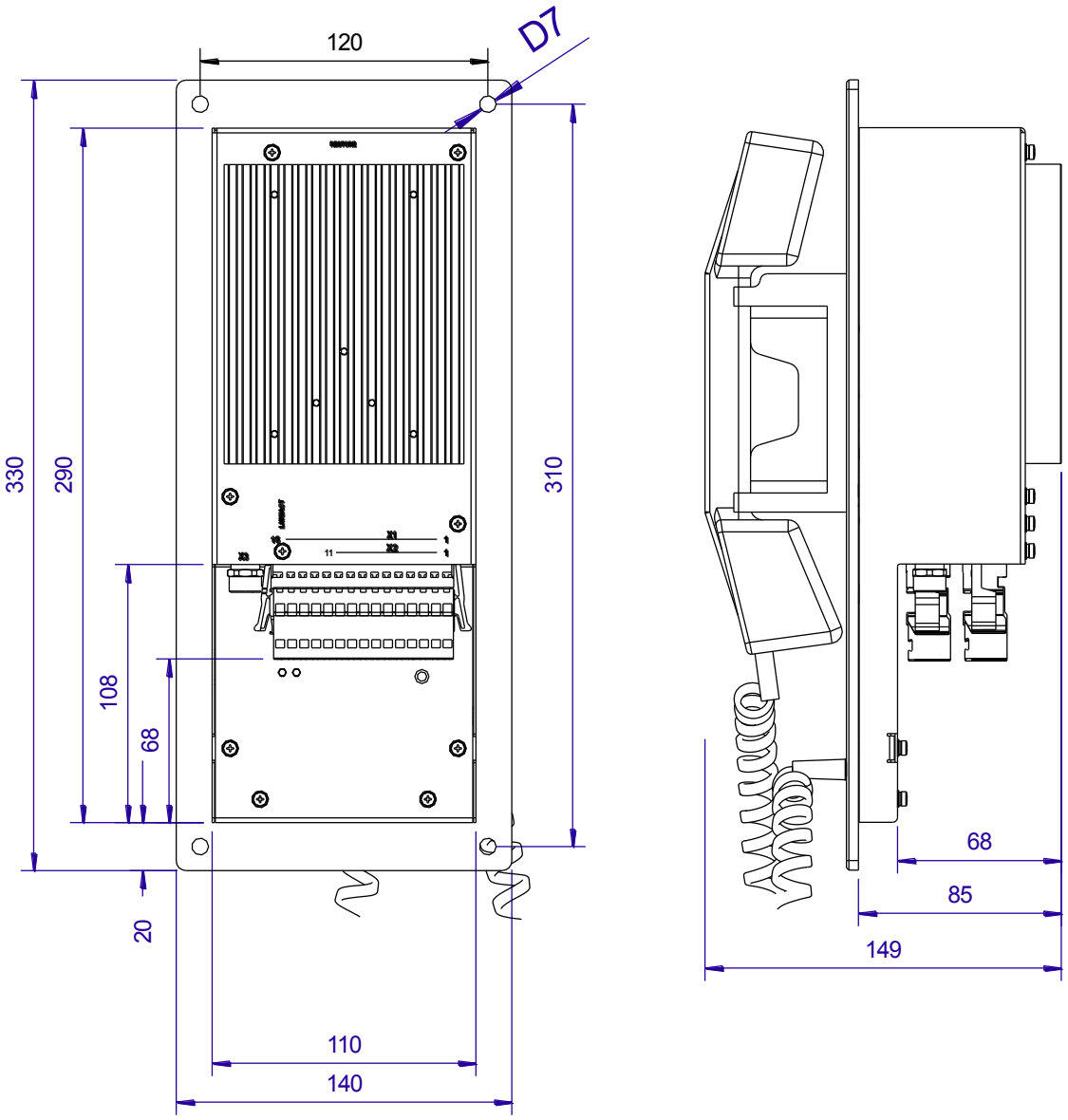
MECHANICAL DRAWING



Data provided in this datasheet are tentative. Details can be found in Operation Manual (**rram-mcte20-xx_g_en_xxx.pdf**). Documentation can be downloaded from www.amit-transportation.com web site.