

MAIN FEATURES

- ❖ Digital filter technology (SDR)
- ❖ Flexible filter selection
- ❖ Frequency shift function
- ❖ High dynamic range
- ❖ High sensitivity
- ❖ SNMP support
- ❖ Low power consumption
- ❖ Compact size

DESCRIPTION

This repeater is intended for use in 400 MHz TETRA systems. Based on the latest digital filter technology this model offers freedom for the users to select the best possible filter characteristics for the actual application type. It has perfect EVM parameters of <1% and low power consumption figures.

Supplied in a compact box, this repeater is an ideal choice for use in areas where flexible filter selection is essential for smooth operation and/or network design. The unit can be monitored and controlled by local and remote-control software.

SPECIFICATIONS

RF PARAMETERS	
Frequency band	Downlink: 390 – 395 MHz Uplink: 380 – 385 MHz
Operating frequency bandwidth	5 MHz
Mode of operation	Channel selective mode, up to 4 Channels
Linear output power	Downlink: +23 dBm Uplink: +22 dBm
ICP3	Downlink: +50 dBm @ 2x20 dBm (2 carriers) @ meets with ETSI Uplink: +49 dBm @ 2x19 dBm (2 carriers) @ meets with ETSI
ACPR	60 dB @ linear output power
Nominal gain	75 dB
Gain setting range	75 to 46 dB in 1 dB steps
Gain ripple	<±1.5 dB typical
Gain stability	<±1.5 dB (within operating temp. range)
Uplink input noise figure	typ. 4 dB, max. 5 dB @ max. gain
Harmonics	According to the ETSI regulation
Spurious radiation	According to the ETSI regulation
Local leakage	According to the ETSI regulation
EVM	<1% typ. (ETSI regulation <10%)
MECHANICAL PARAMETERS	
RF connectors	4.3-10 – female (optional N – female)
Supply voltage	230 VAC 50 – 60 Hz (optional 48 VDC)
Power consumption	<80 W
Weight	20 kg
Dimension	420 x 400 x 158 mm

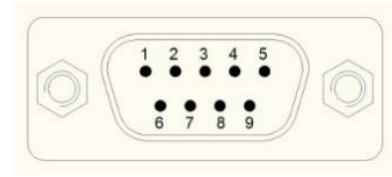
Operating temperature range	0 °C ... +45 °C
Storage temperature range	-30 °C ... +70 °C
Cooling	Convection
Degree of protection	IP40 Indoor

SOFTWARE PARAMETERS

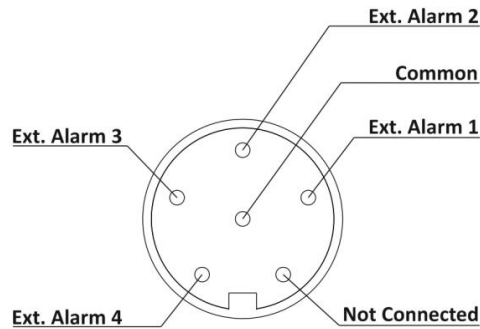
Wired control	Ethernet, SNMP v1 / v2c / optional v3 protocol Optional* additional RS-232 interface ⁽¹⁾
Alarm reporting	SNMP error messages, front LED, 4 external alarm inputs, user configurable sum alarm
Wireless control	Optional 2G / 4G modem

SUM ALARM CONNECTOR PIN MAP (9 PIN D-SUB MALE) ⁽²⁾

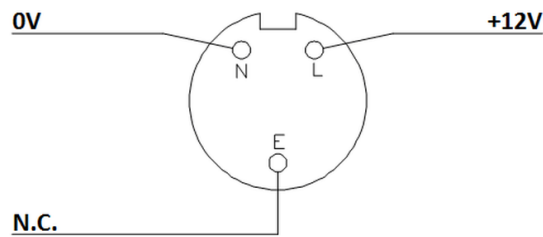
Pin no.	Function	Pin no.	Function
1	NC	6	GND
2	*RX Data	7	Dry Contact
3	*TX Data	8	NC
4	Dry Contact	9	NC
5	GND	-	-



6 PIN EXTERNAL ALARM INPUT CONNECTOR PIN OUT



3 PIN FAN CONNECTOR PIN OUT

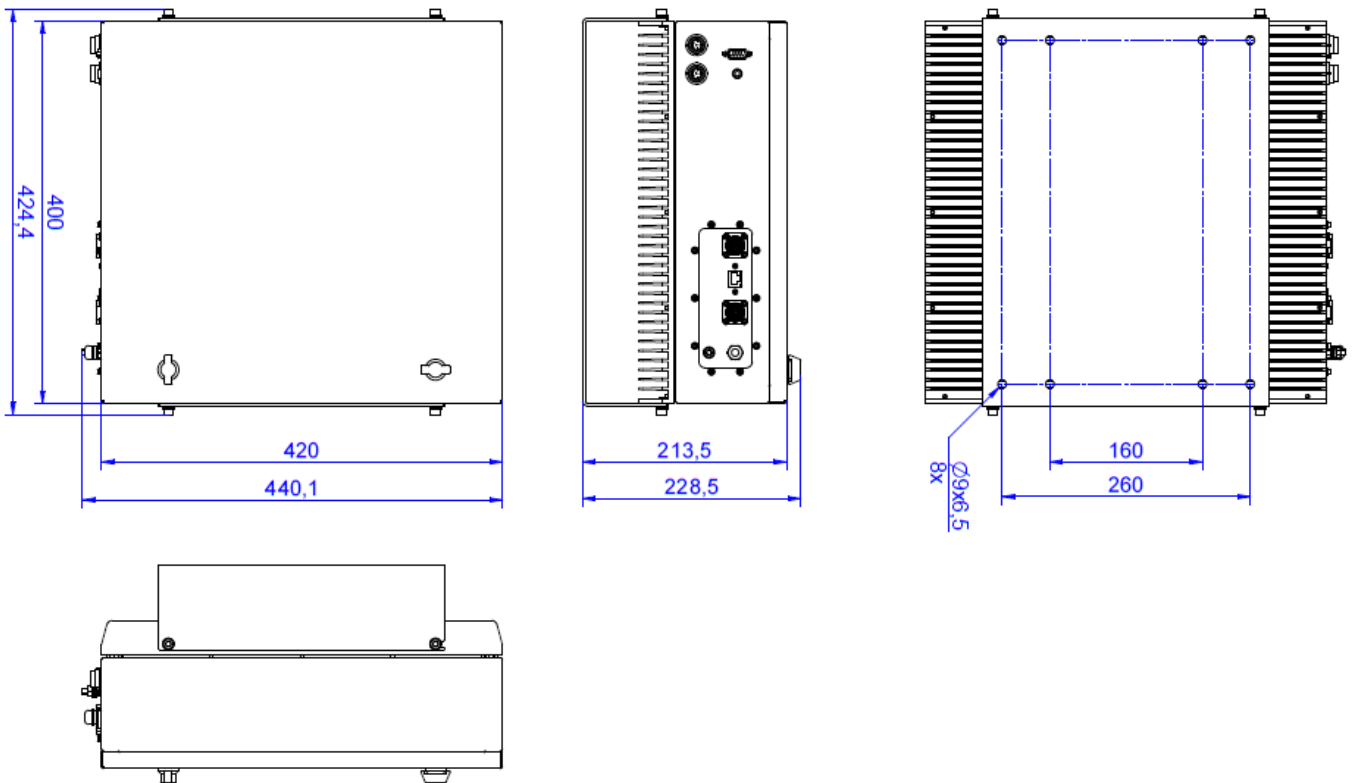


Specifications are subject to change without notice.

(1) Available upon request.

(2) In SWITCH OFF case the relay will be open. The operation of the Dry Contact relay configurable by the user.

OUTLINE DRAWING (mm)



ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
BRTM32K11172	BRTM32 23 dBm, 380-385 MHz / 390-395 MHz, G 75dB, 230 VAC, 4CH, Ethernet port, Independent Channel Gain, SNMPv2, 2G/4G modem, 2x 4.3-10-female Combined ports, wall mount

DOCUMENT REVISION

DOCUMENT NAME	REVISION	DATE
BRTM32-DS-K11172	V01	24/02/2022