

MAIN FEATURES

- ❖ High sensitivity
- ❖ High dynamic range
- ❖ Optional uplink muting
- ❖ Low power consumption
- ❖ SNMP support



DESCRIPTION

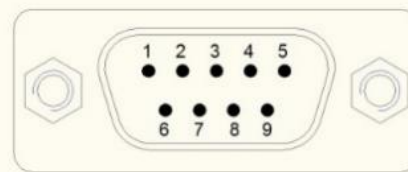
This repeater is intended to be used in 400 MHz indoor TETRA systems. It is a compact and reliable unit which can be effectively used to cover areas that cannot be economically covered by base stations. It is a very economical solution which can be easily installed and can be monitored and controlled locally and remotely via the provided control software.

In order to reduce noise impact on the base station side, uplink muting functionality is available upon customer request.

SPECIFICATIONS

ELECTRICAL PARAMETERS	
Frequency band	Downlink: 390 – 395 MHz Uplink: 385 – 385 MHz
Operating frequency bandwidth	5 MHz
Mode of operation	Band selective duplex
Linear output power	Downlink: +22 dBm or 2 x 19 dBm (2 carriers) meets ETSI regulation Uplink: +22 dBm or 2 x 19 dBm (2 carriers) meets ETSI regulation
ICP3	Downlink: +49 dBm minimum @ 2 x 19 dBm Uplink: +49 dBm minimum @ 2 x 19 dBm
ACPR	60 dB @ linear output power
Nominal gain	70 dB
Gain setting range	70 to 40 dB adjustable in 1 dB steps
Gain ripple	<±1.5 dB typical
Gain stability	<±1.5 dB (within operating temp. range)
Uplink input noise figure	<6 dB @ maximum gain
Harmonics	According to ETSI regulation
Spurious radiation	According to ETSI regulation
Local leakage	According to ETSI regulation
EVM	<1% typ. (ETSI regulation <10%)
Power supply voltage	230 VAC, 50 – 60 Hz
Power consumption	<60 W

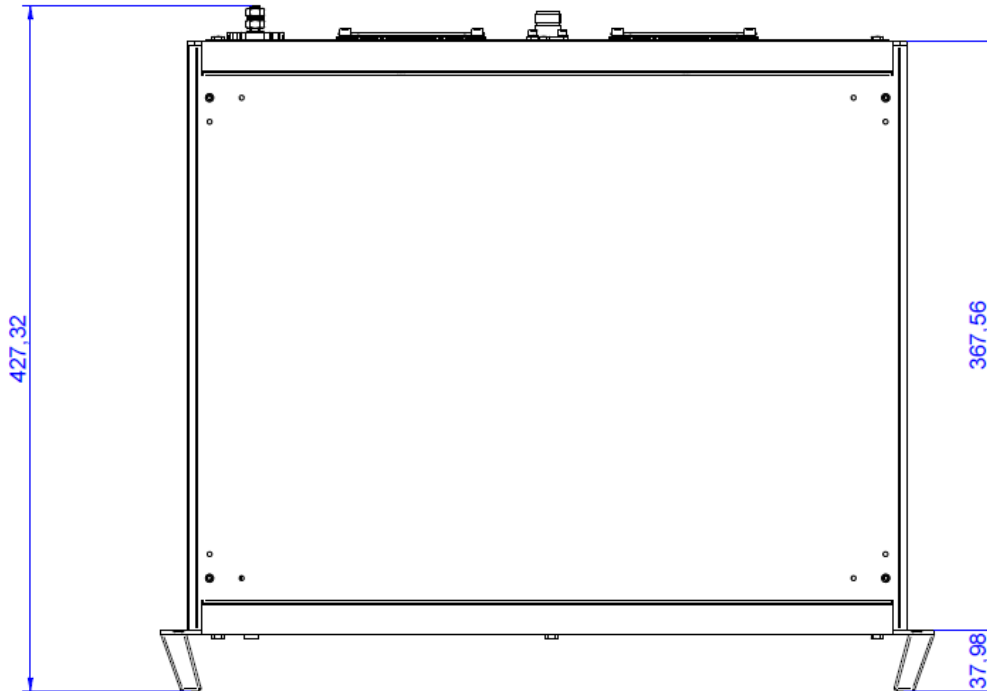
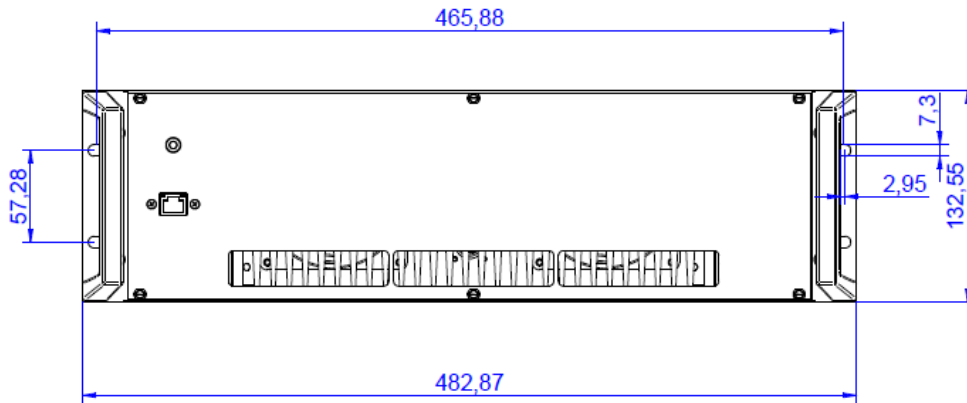
MECHANICAL PARAMETERS			
Type of power supply connector	IEC C14 male (Accessory cable IEC C13 with type F plug)		
Type of RF connectors	N – female		
Number of RF connectors	2, MOBILE, DONOR		
Weight	<15 kg		
Dimension	19" 3U (see outline dimensions)		
ENVIRONMENTAL PARAMETERS			
Operating temperature range	0 °C ... +45 °C		
Storage temperature range	-30 °C ... +70 °C		
Relative humidity	<75%, non-condensing		
Cooling	Switched forced cooling		
Degree of protection	IP20 Indoor		
SOFTWARE PARAMETERS			
Wired control	Ethernet (SNMP v1 / v2c)		
Alarm I/O	4 external alarm inputs, user configurable sum alarm output (dry contact), SNMP notifications, status LED		
Wireless control	Not installed		
EXTERNAL ALARM AND SUM ALARM CONNECTOR PINOUT (D-SUB MALE) ⁽¹⁾			
Pin no.	Function	Pin no.	Function
1	Ext. Alarm IN 1	6	Ext. Alarm COMMON
2	Ext. Alarm IN 2	7	Dry Contact
3	N.C.	8	Ext. Alarm IN 3
4	Dry Contact	9	Ext. Alarm IN 4
5	Ext. Alarm COMMON	-	-



Specifications are subject to change without notice.

(1) In POWERED OFF state the relay will be open. The operation of the Dry Contact relay is configurable by the user.

OUTLINE DRAWING (mm)



ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
BRTM27K10909	BRTM27, 22 dBm, 380-385 MHz / 390-395 MHz, G 70 dB, 230 VAC, 19" 3U, 2x N-female

DOCUMENT REVISION

DOCUMENT NAME	REVISION	DATE
BRTM27-LM-K10909	V01	2023-03-30