

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

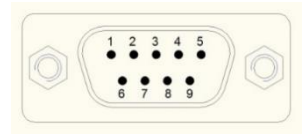
This repeater is intended for use in 400 MHz indoor TETRA systems. Based on the latest digital filter technology this model offers freedom for the users to select the best possible filter characteristics for the actual application type. It has perfect EVM parameters of <1% and low power consumption figures.

Supplied in a compact box, the BRTM47 is an ideal choice to be used in areas where the flexible filter selection is essential for smooth operation and/or network design. The unit can be monitored and set by local and remote control software.

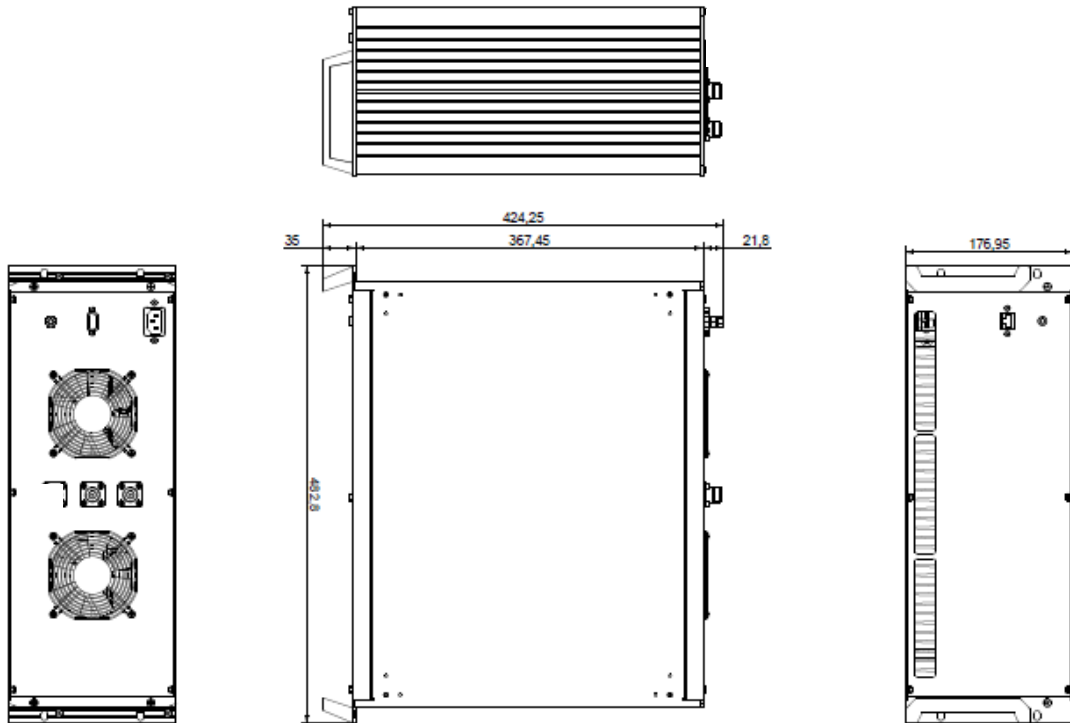
SPECIFICATIONS

RF PARAMETERS	
Frequency Band Downlink	390 to 395 MHz
Frequency Band Uplink	380 to 385 MHz
Operator Frequency Bandwidth	5 MHz
Mode of Operation	Channel or band selective duplex (upto 8 ch)
Linear Output Power	Downlink: +24 dBm
	Uplink: +22 dBm
Max. ALC level	+30 dBm @ downlink / +27 dBm @ uplink
ICP3	+51 dBm @ downlink / +49 dBm @ uplink
ACPR	60 dB @ linear output power
Nominal Gain	76 dB
Gain Setting range	76 to 46 dB in 1 dB steps
Gain Ripple	±1.5 dB typical
Uplink Input Noise Figure	<6 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	N – female (optional 4.3-10 – female)
Supply Voltage	230 VAC 50-60Hz (optional 48 VDC)
Power Consumption	<100 Watt
Weight	25 kg
Size	4U height 19", 370 mm depth
Operating temperature range	0 +45 °C
Application	Indoor
Cooling	Forced air

SOFTWARE PARAMETERS			
Wired Control		Ethernet, SNMP v1 / v2c + User configurable Sum-alarm	
Alarm I/O		4 external alarms, Sum Alarm, SNMP error messages	
Remote Wireless Control (optional only)		Optional GSM modem and automatic SMS function	
DRY CONTACT AND EXTERNAL ALARM CONNECTOR PIN OUT (9 PIN D-SUB MALE)			
Pin no.	Function	Pin no.	Function
1	Ext. Alarm IN 1	6	Ext. Alarms COMMON
2	Ext. Alarm IN 2	7	Dry Contact
3	NC	8	Ext. Alarm IN 3
4	Dry Contact	9	Ext. Alarm IN 4
5	Ext. Alarms COMMON	-	-



OUTLINE DRAWING (mm)



ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
BRTM47K11110	BRTM47 24 dBm, 380-385 MHz / 390-395 MHz, 8CH & Uniband, G 76dB, 230 VAC, Ethernet-SNMP, 19" 4U, 2x 4.3-10 female, Combined Donor port

DOCUMENT REVISION

DOCUMENT NAME	REVISION	DATE
BRTM47-LM-K11110-V01	V01	01/12/2021