

MAIN FEATURES

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



DESCRIPTION

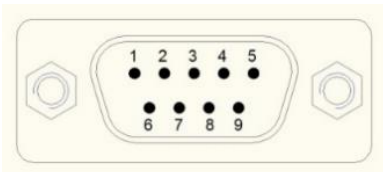
This repeater is intended for use in 400 MHz indoor or outdoor TETRA systems. Based on the latest digital filter technology this model offers freedom for the users to select the best possible filter characteristics for the actual application type. It has perfect EVM parameters of <1% and low power consumption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

Supplied in a compact box, the BRTL48 is an ideal choice to be used 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: 460 – 465 MHz Uplink: 450 – 455 MHz
Operating frequency bandwidth	5 MHz
Mode of operation	Channel (up to 8) or band selective duplex (with different band filters)
Linear output power	Downlink: +36 dBm or 2 x 33 dBm (2 carriers) @ meets with ETSI Uplink: +36 dBm or 2 x 33 dBm (2 carriers) @ meets with ETSI
ICP3	Downlink: +68 dBm min. @ 2 x 33 dBm Uplink: +68 dBm min. @ 2 x 33 dBm
ACPR	60 dB @ linear output power
Nominal gain	90 dB
Gain setting range	60 – 90 dB 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 @ 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	
Type of RF connectors	N – female
Number of RF connectors	2, MOBIL & DONOR
Power supply voltage	230 VAC, 50 – 60 Hz
Power supply connector	IEC C14 male
Power consumption	<110 W
Weight	<24 kg
Dimension	19" 4U (see outline dimensions)

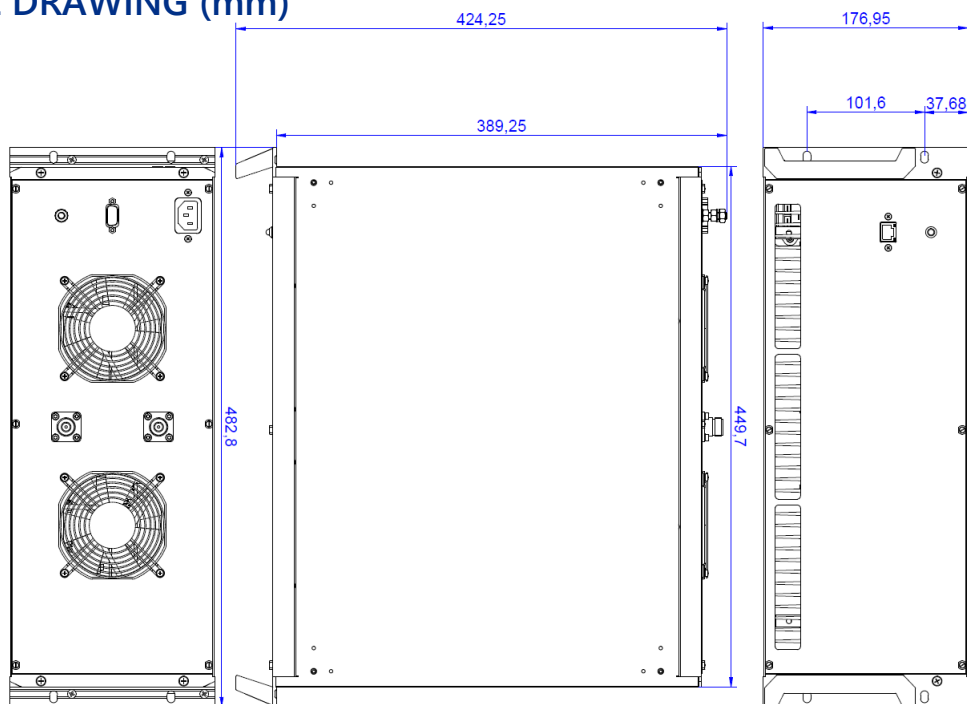
Operating temperature range	0 °C ... +45 °C		
Storage temperature range	-30 °C ... +70 °C		
Cooling	Switched forced cooling		
Degree of protection	IP20 Indoor		
SOFTWARE PARAMETERS			
Wired control	Ethernet, SNMP v1 / v2c		
Alarm reporting	4 external alarm inputs, user configurable sum alarm (dry contact), SNMP error messages, status LED		
Wireless control	Not installed		
EXTERNAL ALARM AND SUM ALARM CONNECTOR PIN OUT (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 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
BRTL48K11138	BRTL48 36 dBm, 450-455 MHz / 460-465 MHz, G 90 dB, 230 VAC, 8CH & Uniband, Ethernet, SNMP, Combined port, 19" 4U

DOCUMENT REVISION

DOCUMENT NAME	REVISION	DATE	REASON FOR CHANGE
BRTL48-LM-K11138	V01	09/05/2022	