



BRTM16 / BRTM18

400 MHz TETRA BANDSELECTIVE MINI REPEATER

- HIGH SENSITIVITY
- HIGH DYNAMIC RANGE
- 19" RACKMOUNT DESIGN
- RC & SUM ALARM
- SNMP SUPPORT

This repeater is intended for use in 400 MHz indoor TETRA systems. It is a compact and reliable unit and especially advantageous to use it in villages, or open fields where the field strength is weak. Hosted in a modern, rackmount box, it can easily be installed together with other rackmount BHE repeaters like FM and DAB repeater completing the tunnel solution. Both units can be monitored and set by remote control software and sum-alarm and and the communications can be relayed through RF modem or wired SNMP.

Electrical characteristics:

Frequency Band Downlink	390 – 395 MHz**
Frequency Band Uplink	380 – 385 MHz**
Frequency Bandwidth	5 MHz
Mode of Operation	Band selective duplex
Max. ALC level	30 dBm
Linear Output Power Downlink / Uplink	+ 22 or 2x19dBm (2 carriers) @ meets with ETSI
ICP3	+ 48 dBm
Nominal Gain	70 dB
Gain Setting	70 to 40 dB in 1 dB steps
Input Noise Figure	< 5 dB
EVM	1 % typ. (ETSI regulation < 10%)
Harmonics	According to the ETSI regulation
Spurious Radiation	According to the ETSI regulation
Local Leakage	According to the ETSI regulation
RF Connectors	N – female
Supply Voltage	100-240 VAC / 50 – 60 Hz
Power Consumption	60 W
Weight	10 kg
Operating temperature range	0°C to 45°C
Cooling	Forced Air
Wired control	Ethernet SNMP control + Sum-alarm***
Remote Wireless Control	Optional: Dial Up GSM modem and/or automatis SMS function
Application	Indoor
Dimension	19" 3U Rackmount

(*) Specifications are subject to change without notice.

(**) Other TETRA band available

(***) Sum-alarm sets open contact between RS232 pin 4 and 7 in case of failure as follows:

RF port information

Model	Donor Port (to BTS)	Mobile Port (to Cell phones)
BRTM16	Separated Tx - Rx	Combined TRx
BRTM18	Combined TRx	Combined TRx



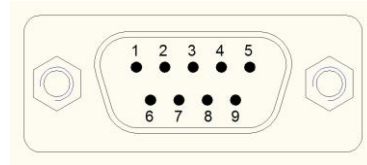
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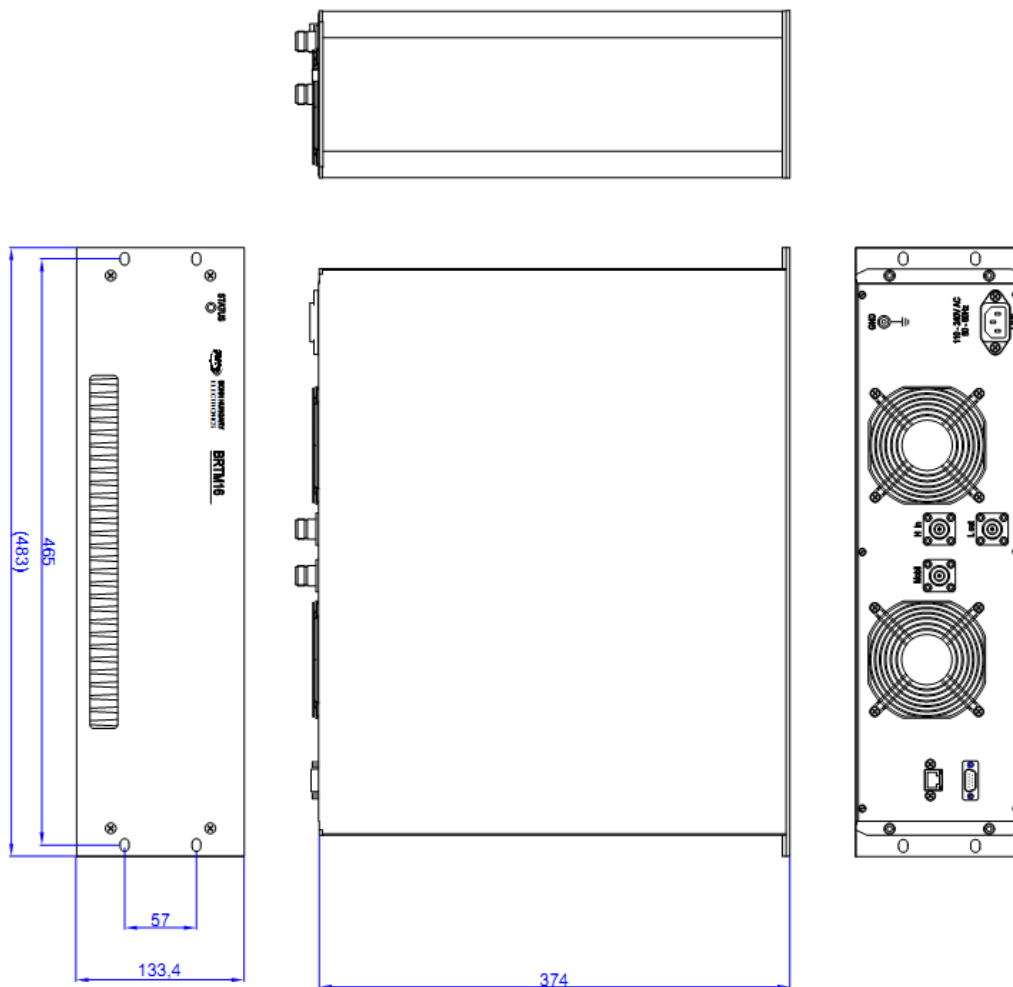
Status	DSUB-M PIN 4 and 7
Overheating	Open
PLL lock error	Open
RF overdrive*	Open
DL Power Alarm	Open
Chassis intrusion	Open
Switched off	Open

ANY OTHER CASE: CLOSED CONTACT BETWEEN PIN 4 AND 7

*after 30 minutes of continuous RF overdrive status



Outline dimensions (mm) BRTM16 (separated donor port):





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Outline dimensions (mm) BRTM18 (combined donor port):

