

**400 MHz TETRA
BANDSELECTIVE MINI REPEATER**

- **HIGH SENSITIVITY**
- **HIGH DYNAMIC RANGE**
- **19” RACKMOUT DESIGN**
- **RC & SUM ALARM**
- **SNMP SUPPORT**
- **OPTIONAL UL MUTING**

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. The unit can be monitored and controlled via its Ethernet connector, or through the embedded (optional) GSM modem using the provided local and remote control software. SNMPv1 and v2c protocol is supported by default. Support for SNMPv3 is optional. A sum-alarm output is available.

Electrical characteristics:

Frequency Band Downlink	390 – 395 MHz**
Frequency Band Uplink	380 – 385 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	+ 49 dBm
Nominal Gain	70 dB
Gain Setting	70 to 40 dB in 1 dB steps
Input Noise Figure	< 5 dB @ max. Gain
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	230 VAC / 50 – 60 Hz (optional 48 VDC)
Power Consumption	60 W
Weight	15 kg
Operating temperature range	0°C to 45°C
Cooling	Forced Air
Wired control	Ethernet SNMP control + User configurable Sum-alarm
Optional: Remote Wireless Control	Dial Up GSM modem and/or automatic SMS function
Application	Indoor
Dimension	19” 3U Rackmount

(*) Specifications are subject to change without notice.

(**) Other standard TETRA band available

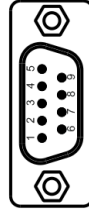


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Alarm types	DSUB-9 male PIN 4 and 7
Center Module Supply Voltage	Open/Closed
Center Module Supply Current	Open/Closed
Downlink Module Low Power	Open/Closed
Uplink Module Supply Voltage	Open/Closed
Downlink Module Supply Voltage	Open/Closed
Uplink Module SAW Current	Open/Closed
Downlink Module SAW Current	Open/Closed
Uplink Module PAM Current	Open/Closed
Downlink Module PAM Current	Open/Closed
Uplink Module Overdrive (over 30 min)*	Open/Closed
Downlink Module Overdrive (over 30 min)*	Open/Closed
Uplink Module Temperature	Open/Closed
Downlink Module Temperature	Open/Closed
Uplink Module Synthesizer Unlocked	Open/Closed
Downlink Module Synthesizer Unlocked	Open/Closed
Uplink Module Momentary Overdrive	Open/Closed
Downlink Module Momentary Overdrive	Open/Closed

*after 30 minutes of continuous RF overdrive status

User can set the state of the Dry contact relay in alarm condition (Open/Closed).
In case of power off, the state of the Dry contact relay will be opened.



Pin1: Ext. Alarm IN1 Pin6: GND

Pin2: Ext. Alarm IN2 Pin7: Dry Contact

Pin3: N.C. Pin8: Ext. Alarm IN3

Pin4: Dry Contact Pin9: Ext. Alarm IN4

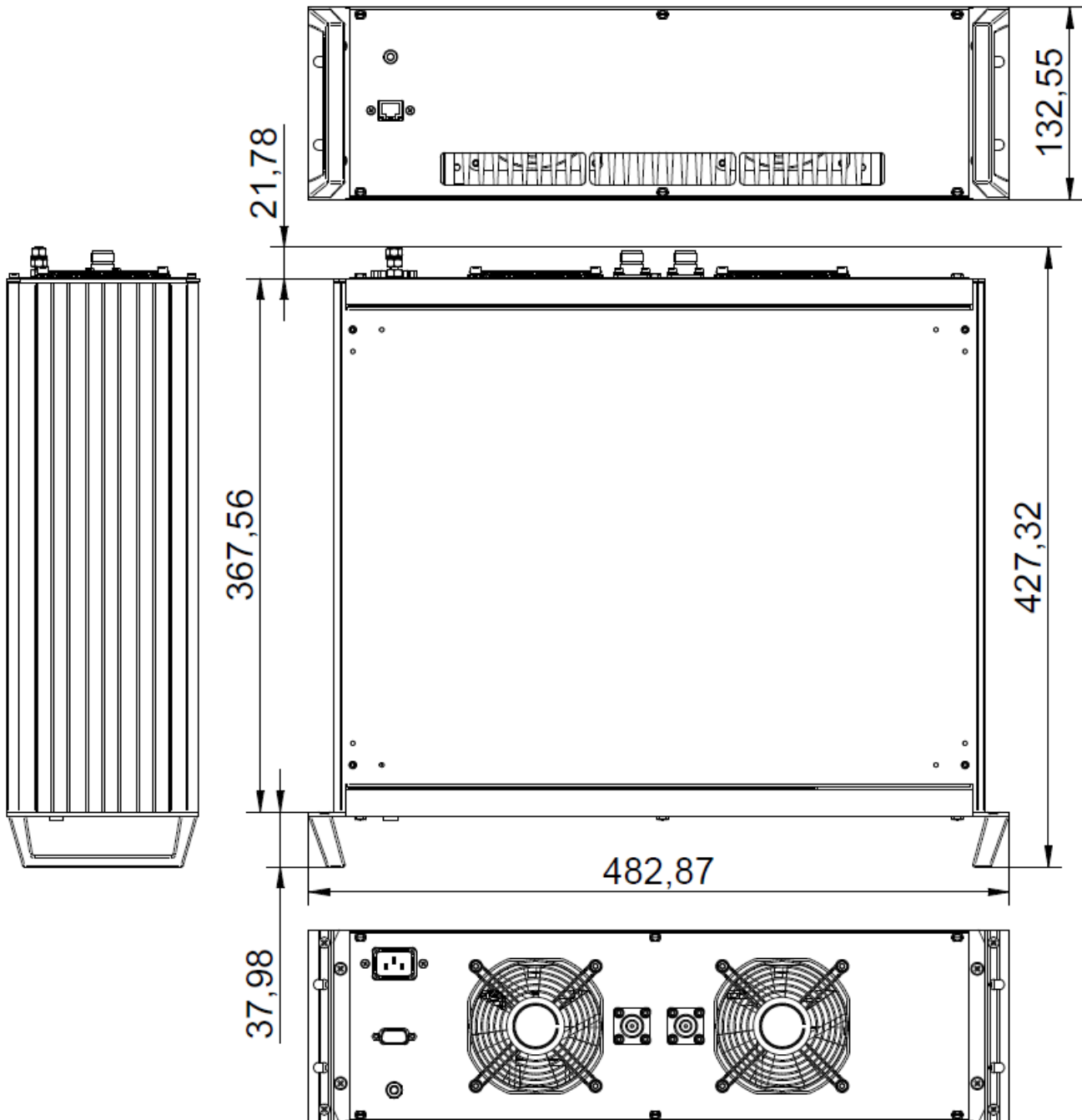
Pin5: GND



BRTM27

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Outline dimensions (mm):



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