

**400 MHz TETRA
DIGITAL LARGE REPEATER**

- **4 W RF OUTPUT POWER**
- **DIGITAL FILTER TECHNOLOGY (SDR)**
- **FLEXIBLE FILTER SELECTION**
- **FREQUENCY SHIFT FUNCTION**
- **HIGH DYNAMIC RANGE**
- **LOW POWER CONSUMPTION**
- **RS-232 AND ETHERNET CONTROL INTERFACE**

This repeater is intended for use in 400 MHz out- and 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 BRTL44 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 controlled by local and remote control software. It supports SNMP v1/v2c protocol by default. Support for SNMPv3 is optional.

Electrical characteristics:

| | |
|------------------------------|--|
| Frequency Band Downlink | 390 – 395 MHz * |
| Frequency Band Uplink | 380 – 385 MHz * |
| Operator Frequency Bandwidth | 5 MHz |
| Mode of Operation | channel or band selective duplex (upto 8 ch) |
| Max. ALC level | +36 dBm |
| Linear Output Power | +36 dBm |
| ICP3 | +68 dBm |
| ACPR | 60 dB @ 36 dBm |
| Nominal Gain | 90 dB |
| Gain Setting | 90 to 60 dB in 1 dB steps |
| Gain Stability | < ± 1.5 dB (within oper. temp. range) |
| Input Noise Figure | 4,5 dB typ. @ 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 – 60Hz (optional 48 VDC) |
| Power Consumption | 150 W |
| Weight | 30 kg |
| Operating temperature range | 0°C to + 40°C (optional -20°C to 55°C) |
| Cooling | Convection or optional fan |
| Wired Control | Local RS-232 and Ethernet connection + SumAlarm ** |
| Remote Wireless Control | 2G / 3G modem with automatic SMS function |
| Application | In- or outdoor IP65 |
| Dimension | 400 x 560 x 158 mm |

Specifications are subject to change without notice.

(*) available in any other standard TETRA bands too.

(**) Sum-alarm sets configurable open or closed contact between RS-232 pin 4 and 7 in case of failure

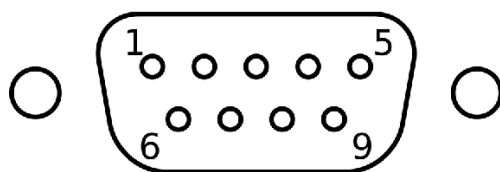
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Alarm signalling

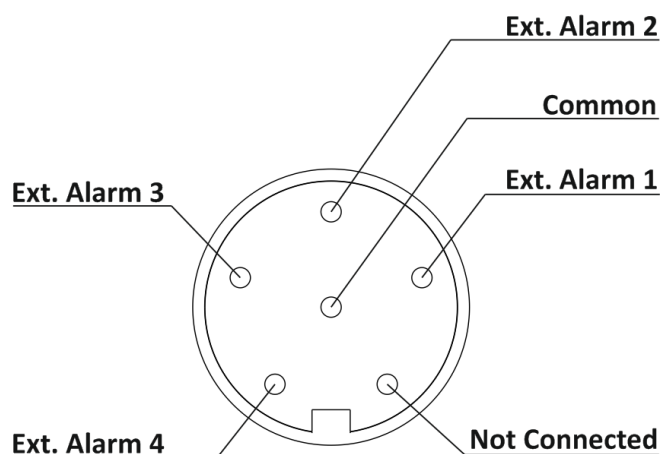
| | |
|-----------------------|--|
| Summary alarm output | dry contact on 9 pin D-sub connector |
| External alarm inputs | 4 independent external alarm inputs on separated connector |

9 pin D-Sub connector pin out



PIN1: N.C.
 PIN2: RX Data
 PIN3: TX Data
 PIN4: Dry Contact
 PIN5: GND
 PIN6: N.C.
 PIN7: Dry Contact
 PIN8: N.C.
 PIN9: N.C.

6 pin external alarm input connector pin out

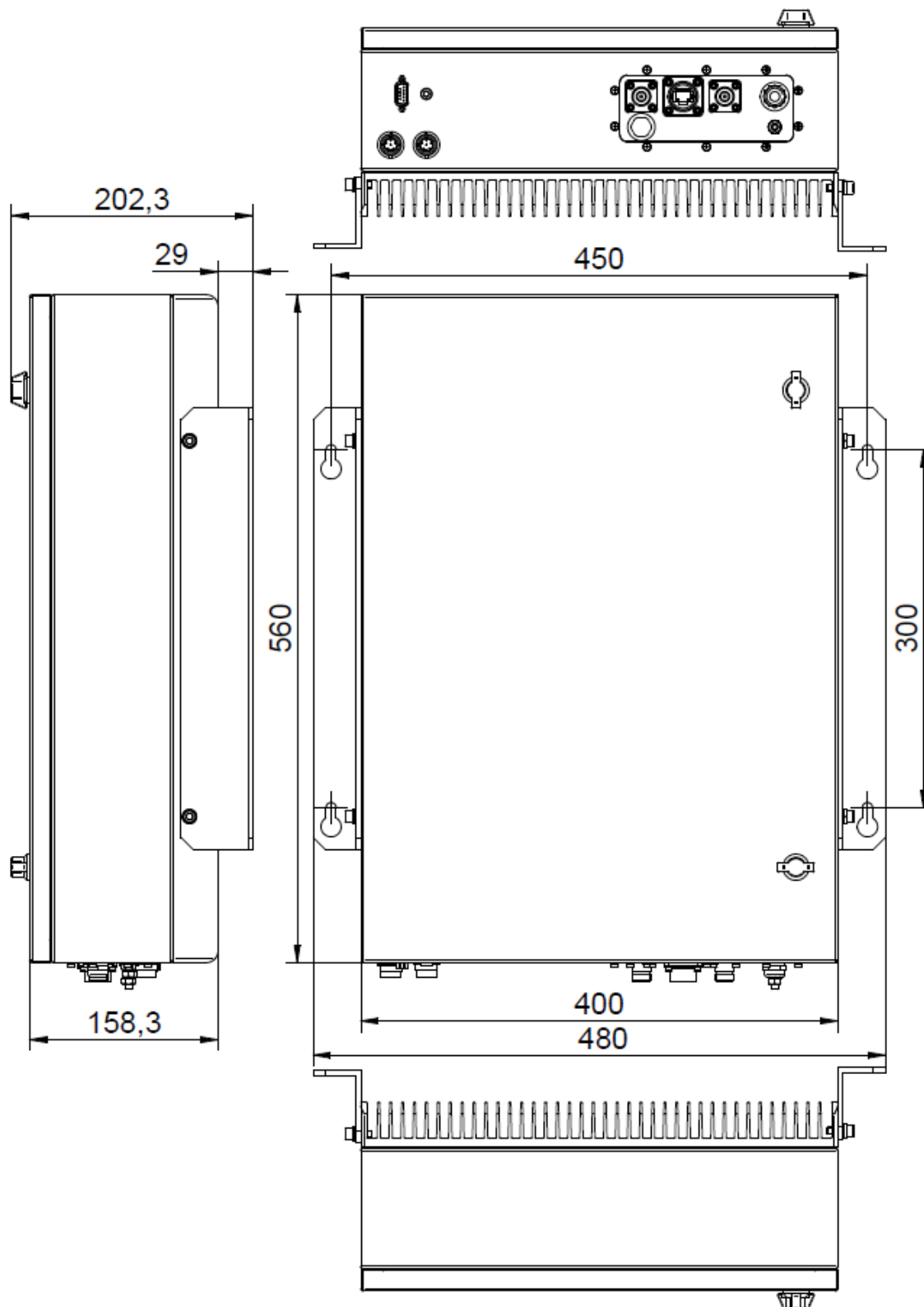




BRTL44

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Outline dimensions (mm):



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