

**400 MHz TETRA
MACRO REPEATER**

- **4 W RF OUTPUT POWER**
- **HIGH DYNAMIC RANGE**
- **19" RACKMOUNTABLE 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 it is especially advantageous to use it in villages, or open fields where the field strength is weak. It is a cost effective solution to cover areas, which cannot be covered economically by base stations. It is a very economical solution, can be installed easily, can be monitored and set by remote control software.

Electrical characteristics:

Frequency Band Uplink	380 – 385 MHz*
Frequency Band Downlink	390 – 395 MHz*
Operator Frequency Bandwidth	5 MHz
Mode of Operation	band selective duplex
Max. ALC level	36 dBm @ downlink / 33 dBm @ uplink
Linear Output Power (Uplink and Downlink)	+36 dBm downlink / +24 dBm uplink typ.
ICP3	+68 dBm @ downlink / +51 dBm @ uplink
ACPR	60 dB @ 36 dBm downlink and 24 dBm uplink
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	100 - 240 VAC / 50 – 60Hz (optional 48 VDC)
Power Consumption	100 W
Weight	25 kg
Operating temperature range	0°C to +40°C
Cooling	Forced air cooling
Wired control	Ethernet, SNMP v1 / v2c / (optional) v3 protocol + User configurable Sum-alarm
Optional Wireless Control	2G / 4G modem with alarm SMS function**
Alarm out	SNMP Trap messages Dry relay contact SMS**
Alarm input	4 external alarm inputs on 9 pin D-Sub male connector
Application	Indoor IP20
Dimension	19" x 3U x 374 mm

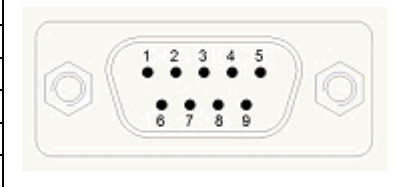
(*) Other TETRA bands are also possible.

(**) Optional functions only upon Customer's request.

Specifications are subject to change without notice.

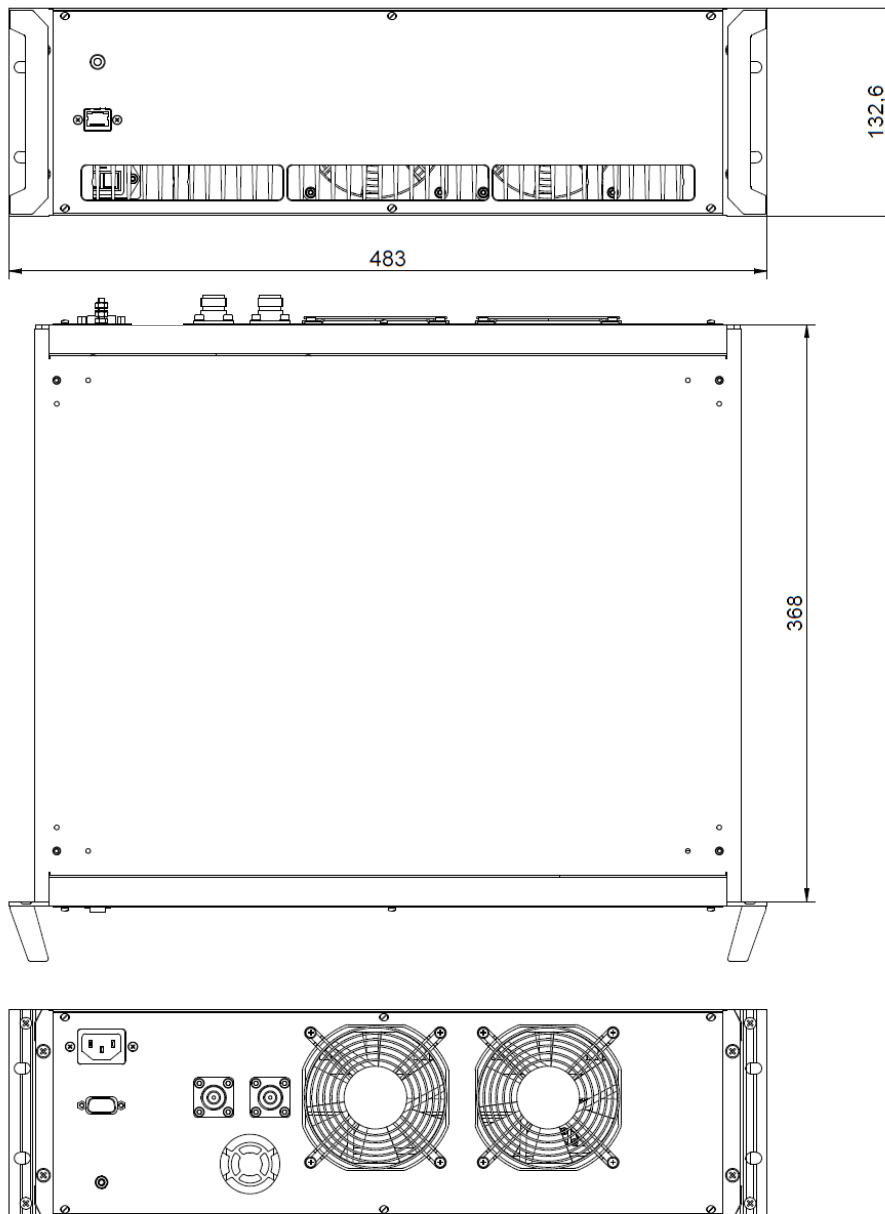
Sum Alarm connector pin map (9 pin D-Sub male)

Pin no.	Function	Pin no.	Function
1	External Alarm 1	6	N.C.
2	External Alarm 2	7	Dry Contact (***)
3	N.C.	8	External Alarm 3
4	Dry Contact (***)	9	External Alarm 4
5	GND	-	-



(***) sum alarm operation configurable by the user

Outline dimensions (mm):



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