

**TETRA OPTICAL
MINI SLAVE REPEATER**

- **1W MAX ALC RF OUTPUT POWER**
- **HIGH SENSITIVITY**
- **HIGH DYNAMIC RANGE**
- **19" RACK MOUNTED**

This repeater is intended to use for TETRA in or outdoor optical fibre systems. It is a compact and reliable unit, and it is especially advantageous to use it in areas where off air transmission is not preferable (like tunnels, large buildings etc.). The base station side optical master unit can communicate through optical fiber with slave unit on repeater side, which provides high flexibility in system build-up. This very economical solution can be installed easily, and the repeater can be set and monitored using the bundled remote control software.

Electrical characteristics:

Parameters	Remote Site Slave Repeater
Frequency Band Uplink	380 - 385 MHz *
Frequency Band Downlink	390 - 395 MHz *
Nominal Gain	50 dB
Gain Setting	25 to 50 dB adjustable in 1dB step
ICP3 Downlink	> 51 dBm typ.
Linear Output Power	+24 dBm
Max. ALC Level	+30 dBm
Uplink Path Noise Figure	< 6 dB typ @ max. gain
ALC response	3msec max.
ALC range	30 dB min.
Group delay	2usec max.
Optical Module Maximum RF Input Power	+5 dBm
Optical Connectors	FC/APC (optional SC/APC)
RF Connector	N-female
Power Supply	230 VAC 50-60 Hz (optional 48 VDC)
Power Consumption	< 80 W
Weight	15 kg
Size	3U height 19"
Operating Temperature Range	0°C to +45°C
Storage Temperature Range	-30°C to +70°C
Local / Remote Control Interface	Ethernet, SNMP v1/v2c/v3 protocol
Alarm out	SNMP Trap messages Dry relay contact
Alarm input	4 external alarm inputs on 9 pin D-Sub male connector
Remote Control	Through optical fiber with master unit
Cooling fan	Yes (with temperature sensor)
Degree of Protection	Indoor

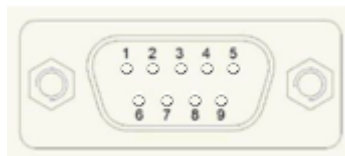
(*) Other TETRA bands are also possible.

Specifications are subject to change without notice.

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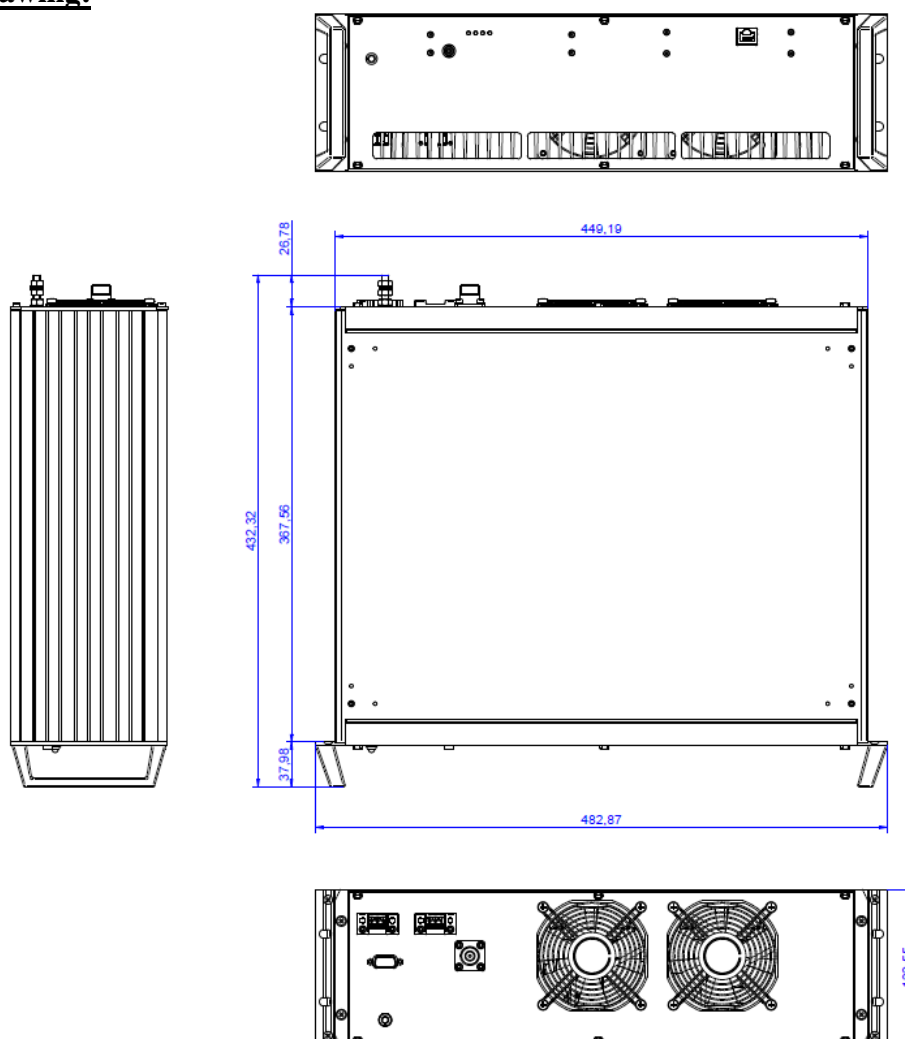
Dry contact and External alarm connector pin out (9 pin D-Sub male)

Pin number	Function
1	Ext. Alarm IN 1
2	Ext. Alarm IN 2
3	NC
4	Dry Contact
5	Ext. Alarms COMMON
6	Ext. Alarms COMMON
7	Dry Contact
8	Ext. Alarm IN 3
9	Ext. Alarm IN 4



The operation of the Dry Contact relay configurable by the user.
In SWITCH OFF case the relay will be open.

Outline drawing:



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