

**TETRA OPTICAL
MASTER REPEATER**

- **STAR or DAISY CHAIN CONFIGURATION**
- **UP TO 32 SLAVES SUPPORT WITH EXTERNAL OPTICAL SPLITTERS**
- **REMOTE SUPERVISION OF ALL SLAVE UNITS**
- **WDM TECHNOLOGY** (Optical Wavelength Division Multiplexer)
- **AUTOMATIC OPTICAL POWER CONTROL**
- **SUPPORTS BOTH MEDIUM & MACRO SLAVES**
- **SNMP SUPPORT**

This TETRA master repeater is intended for use to convert signals from RF to optical and supply the remote optical slave repeaters. Typical applications are: long tunnel sections, in-building systems, large area outdoor coverage and long distance feed areas where the cost of the traditional RF cable is more expensive than the economical optical fiber solutions.

Using WDM (Wavelength Division Multiplex) technology the uplink and downlink signals are going on the same optical cable. The same optical cable is used for the remote supervision and alarm handling functions, which results in a reliable control of communication link. All the slaves (including their optional external alarms) and the master unit can be controlled through the master unit with a direct connection or by the help of one GSM modem.

Electrical characteristics:

Frequency Band Uplink	380 – 385 MHz *
Frequency Band Downlink	390 – 395 MHz *
Nominal Gain	-20 dB
Gain Setting	-50 to -20 dB adjustable in 1 dB step
Pass Band Ripple	< ±1,5 dB max.
Gain Stability	< ±1 dB (within operating temp. range)
Optical Module Maximum RF Input Power	+5 dBm
Optical loss between master and slave	15 dBo, (including jumpers, splitters etc. along the optical connection)
Optical Connectors	FC/APC, optional SC/A
RF Connectors	N-female
Power Supply	230 VAC / 50-60 Hz, optional 48 VDC
Power Consumption	10 W + 8 W/Channel
Weight	15 kg with 8 optical channels
Size	standard 19", 4U, 400mm
Operating Temperature Range	0°C to +45°C
Storage Temperature Range	-30°C to +70°C
Control Options	- SNMP v1/v2c/v3 protocol - RS232** - 2G/3G modem with SMS function**
Alarm out	- SNMP v1/v2c/v3 traps - SMS** - Dry relay contact**
Degree of Protection	Indoor

(*) Other TETRA bands are also possible.

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

Specifications are subject to change without notice.

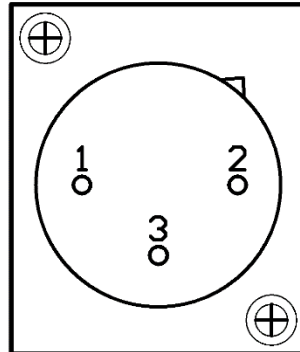


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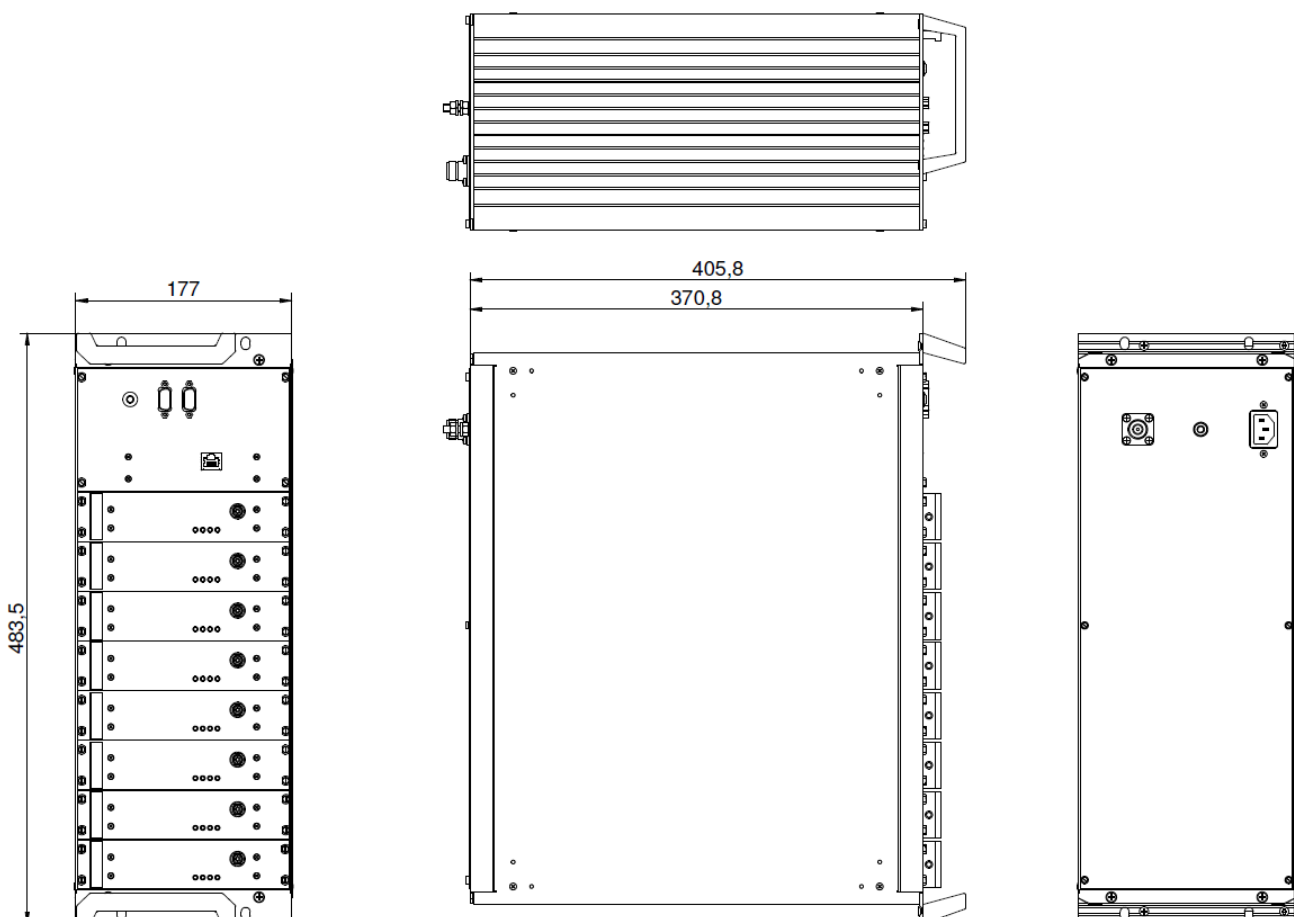
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Power supply connector pin out (48 VDC):

PIN1 – GND
PIN2 - +48 V
PIN3 – 0 V



Outline dimensions (mm):



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