

**TETRA OPTICAL MACRO
SLAVE REPEATER**

- **10 W MAX RF ALC OUTPUT POWER**
- **HIGH SENSITIVITY**
- **HIGH DYNAMIC RANGE**

This repeater is intended for use in 390 MHz in or outdoor TETRA 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 optional can be monitored and set by remote control software.

Electrical characteristics:

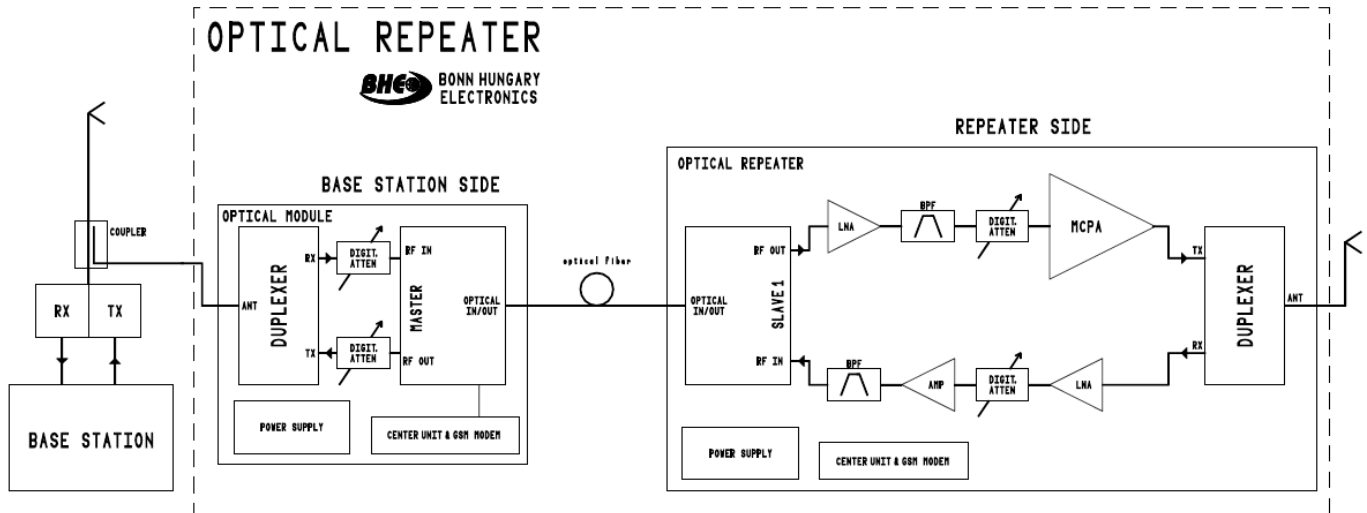
Optical TETRA Repeater Technical Parameters	
Parameters	Remote Site Slave Repeater
Frequency Band Uplink	380 – 395 MHz *
Frequency Band Downlink	390 – 395 MHz *
Nominal Gain	40 dB
Gain setting	30 to 60dB adjustable in 1dB step
ICP3 Downlink	> 63 dBm
Linear output power	+36 dBm @ 4x 1W
Max. ALC level	+40 dBm **
ACPR	-60 dB @ max ALC level
Uplink path noise figure	4dB @ max. gain
Pass band ripple	< ±1,5 dB
Gain stability	< ±1,5 dB (within operating temp. range)
Optical module maximum RF input power	+5 dBm
Optical connectors	LC
RF connectors	N-female
Power supply	230 V AC optional 48V DC
Power consumption	< 200 W
Weight	45 kg
Size	580 x 400 x 260 mm
Operating temp. Range	-20°C to +50°C
Local Control	RS232
Remote Control	Through optical link
External alarms	4 alarm inputs
Degree of protection	In or Outdoor

(*) Other TETRA, VHF or GSM bands are also possible.

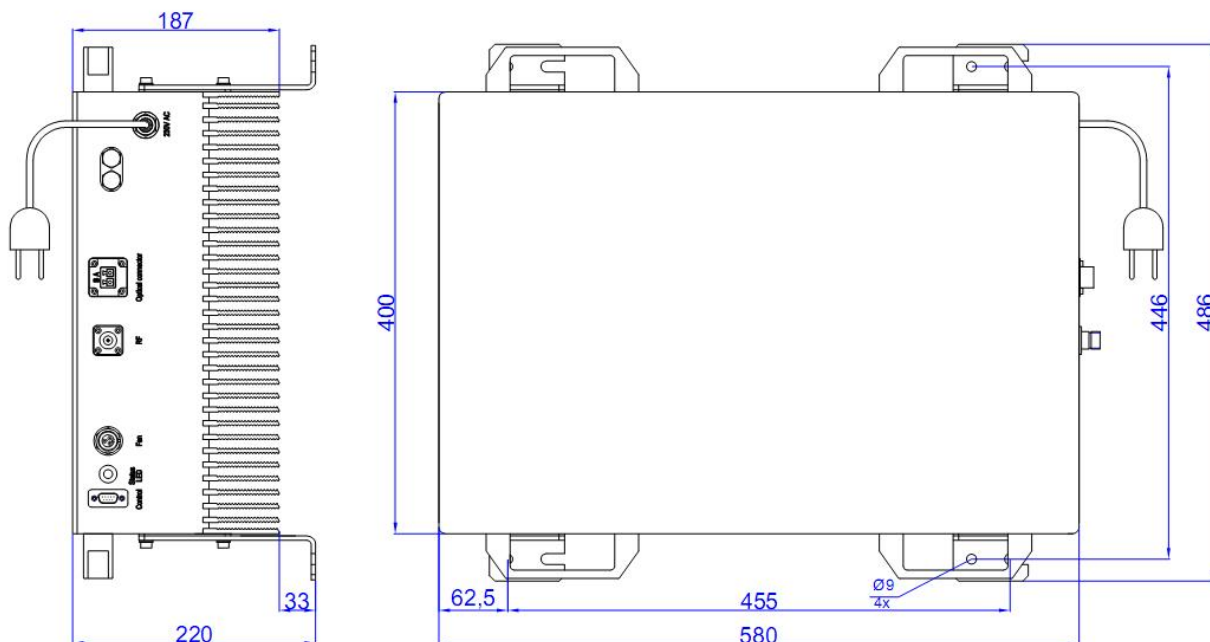
(**) According to the customer request other downlink RF power level version also possible. Specifications are subject to change without notice.

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Block diagram:



Repeater side outline dimensions (mm):





BRTF10

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Picture of remote site **BRTF10 Optical TETRA Slave Macro Repeater**



Picture of base station site **BRMF20 Master repeater** with 6 (max 8.) optical outputs