

BSF 3604-2B-RM

Band selective, fibre optic, TETRA repeater Dual band, 19" rackmount for EMEA & APAC

Key features

- High power, 36 dBm in each band (with one carrier).
- Two, non-adjacent frequency bands in one 19" rackmount enclosure.
- SC/APC F/O interface.
- Optimized for low noise figure.
- Full monitoring, supervision and alarm handling though SNMP, Webserver or AEM monitoring software via the fibre connection to the associated OMU.
- The unique combination of high output power and highly linear power amplifiers ensures large coverage with uniformly excellent signal quality.
- The BSF 3604 can optionally be upgraded with a second optical transceiver module for redundant fibre applications

The BSF 3604-2B-RM is a fibre optic fed TETRA repeater. This dual band, version processes two different (nonadjacent) bands in one enclosure.

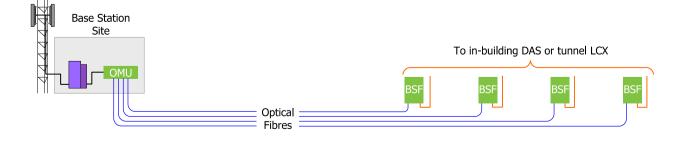
The repeater is part of a system that is fed from a PBE Axell Optical Master Unit (OMU). The maximum optical loss allowed for is 10 dBo between the OMU and the most distant last remote unit that the OMU supports. This offers great flexibility when providing RF coverage in areas where it is not possible to rely on off air transmission.

BSF repeaters can be installed up to 20 km from the base station site, offering great flexibility when providing RF coverage in areas where off air reception is not a preferable or possible solution. The remote BSF repeaters demodulate the optical signal to RF and feed it to a Distributed Antenna System (DAS) or Leaky Feeder array to distribute the RF signal throughout the area to be covered.

The fibre optic system is easily remotely monitored and controlled by PBE Axell's effective supervision tool, Active Element Manager (AEM).

Automatic optical gain setting

The system gain is adjusted for optical loss in the fibre by measuring the level of a pilot carrier sent from the OMU. The level of the received pilot carrier is continuously monitored.







Technical specification

Downlink Uplink Bandwidth 390 MHz to 395 MHz 380 MHz to 385 MHz 5 MHz 420 MHz to 400 MHz 385 MHz to 390 MHz 5 MHz 420 MHz to 425 MHz 410 MHz to 415 MHz 5 MHz 420 MHz to 425 MHz 410 MHz to 415 MHz 5 MHz 425 MHz to 430 MHz 415 MHz to 420 MHz 5 MHz 465 MHz to 430 MHz 455 MHz to 430 MHz 5 MHz 465 MHz to 430 MHz 455 MHz to 430 MHz 5 MHz 465 MHz to 430 MHz 455 MHz to 430 MHz 7 MHz 390 MHz to 397 MHz 380 MHz to 387 MHz 7 MHz 390 MHz to 397 MHz 433 MHz to 430 MHz 7 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 7 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 6.5 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 7 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 7 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 7 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 7 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 7 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 7 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 7 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 7 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 7 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 7 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 7 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 7 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 7 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 7 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 7 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 7 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 7 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 7 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 7 MHz 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 380 MH	RF Specification					
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395 MHz to 400 MHz	General frequency ranges available			•		
Age						
425 MHz to 430 MHz						
Cothers upon request up to 520 MHz, bands must be non-adjacent A60 MHz to 465 MHz A50 MHz to 455 MHz 5 MHz A65 MHz to 470 MHz A55 MHz to 480 MHz A55						
(others upon request up to bands must be non-adjacent) 460 MHz to 465 MHz de 570 MHz			425 MHz to 430 MHz	415 MHz to 420 MHz	5 MHz	
390 MHz to 397 MHz 380 MHz to 387 MHz 7 MHz	(others upon request up	to 520 MHz,	460 MHz to 465 MHz	450 MHz to 455 MHz	5 MHz	
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Mumber of frequency bands 390 MHz to 396.5 MHz 380 MHz to 386.5 MHz 6.5 MHz			390 MHz to 397 MHz	380 MHz to 387 MHz	7 MHz	
Number of frequency bands 2						
Number of frequency bands 2 10 MHz (others upon request)						
Duplex distance (in one band) 10 MHz (others upon request) Impedance 50 Ω Downlink output power/carrier per band 2 carriers: +36 dBm 1P3 3-4 carriers: +30 dBm Noise figure (UL) 6 dB, 5 dB typical at maximum gain Group delay 2 μs max Fibre optic loss compensation Implemented Spurious emissions from RF port < -36 dBm	N		390 MINZ to 396.3 MINZ		0.5 IVITZ	
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Power/carrier per band 3-4 carriers: +30 dBm P3	Downlink output power/carrier per band	1 carrier:	+36 dBm			
power/carrier per band 3-4 carriers: +30 dBm 8 carriers: +27 dBm P3		2 carriers:				
Recarriers:		3-4 carriers:				
P3		8 carriers:				
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