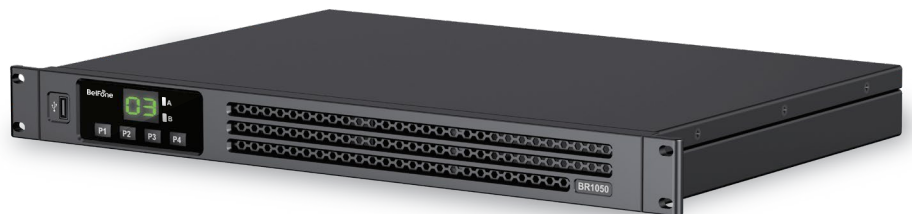




BR1050 **ULTRA-SLIM** Professional DMR Repeater



- 50W Transmitting Power
- Full Frequency Band Adjustable
- Excellent Heat Dissipation
- Malfunction Warning System
- Floating Charging Mode
- Main Power and Backup Power Supply
- Back-to-Back Application
- GPS Satellite Positioning*
- Basic / Smart IP Connect*



BR1050, a new generation of DMR repeater, has been completely upgraded in exterior design, structural optimization, and performance, etc. It integrates the advantages of ultra-slim, wide coverage, long transmission distance, high reliability, and strong expandability, providing users in different industries with powerful communication coverage, outstanding stability, and rock-solid reliability.



BR1050
DMR REPEATER



Ultra-Slim Design

BR1050 optimizes the device space by adopting a slim 19 inches 1U frame structure, which can save cabinet space more efficiently and is also to be integrated into various communication systems.



Excellent Heat Dissipation

BR1050 adopts dual centrifugal cooling fans, high thermal conductivity materials, and active heat dissipation technique through the intelligent temperature control system so that the heat generated within the device can be in a smaller space occupation under the output of a larger air volume to enhance the cooling effect and ensuring the stable operation of the Repeater for a long time at 100% full power conditions.



High Power and Full-Frequency Band

BR1050 is equipped with excellent RF transmission and a high-efficiency power amplifier, combined with 25W/50W transmit power and full-frequency band design, which can flexibly meet the different needs of various industries even under harsh conditions, which greatly improves coverage range and high quality communication services for users.



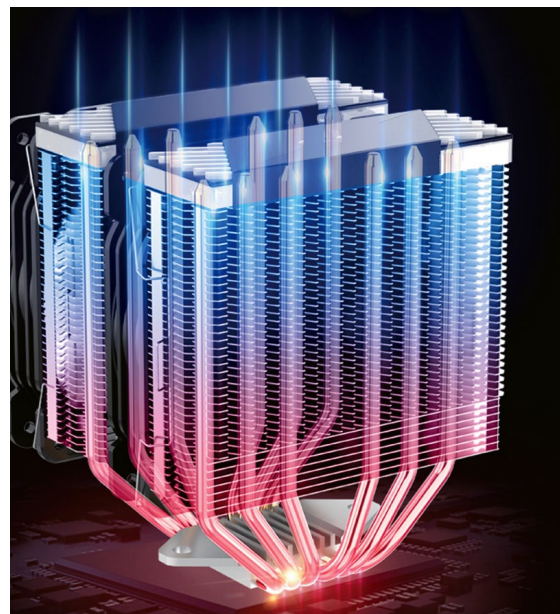
Malfunction Warning System

BR1050 has a perfect malfunction warning system. When a fault occurs during the operation of the equipment, a fault code will appear in the digital display area and be accompanied by an alarm alert, which reminds the maintenance personnel to find the fault at the first time and facilitates efficient feedback on the management and maintenance of the repeater.



Floating Charge/ Stand-by Power Supply

BR1050 supports both AC and storage battery power supply at the same time, when the AC power supply is accidentally interrupted, the backup power protection function can automatically enable the UPS power supply to ensure normal operation of the Repeater. When the external battery loses power or is out of power, its floating charge function can provide a charging service for the equipment battery to ensure that the equipment operation is double guaranteed.





GPS Satellite Positioning

BR1050 DMR Repeater supports GPS satellite positioning , allowing the dispatcher to initiate real-time tracking and location information to the terminal through the client.

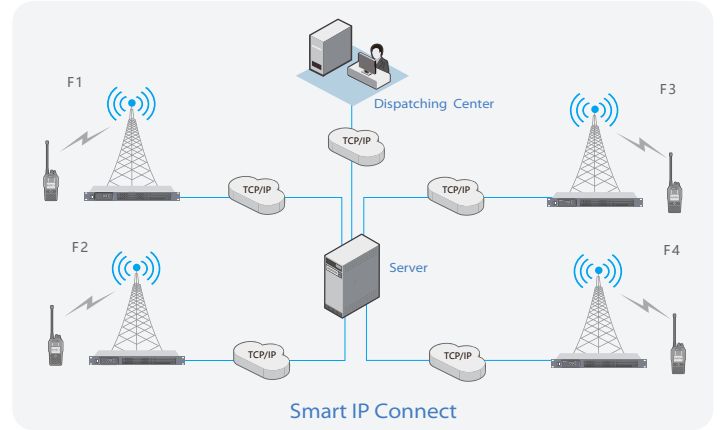


Analog/Digital Back-to-Back Application

The back-to-back application solution can support interoperability between analog and digital radios in different operating modes, thus ensuring a smooth transition from analog to digital.

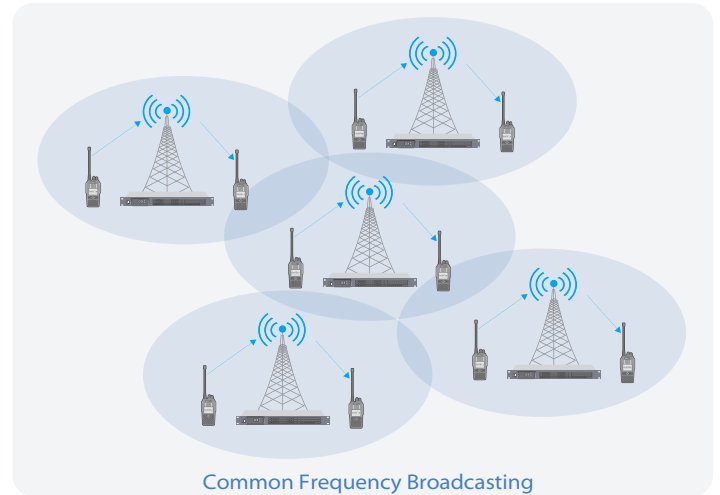
Basic/Smart IP Connect

BF-TR8500 supports IP connect among four repeaters and suitable smart IP connect system to realize the interconnectivity among wide-range and cross-region sites. Smart IP connect can build a number of BF-TR1050 repeaters into a professional wireless communication network covering a larger area, flexibly group these repeaters and divide channels again. BF-TR1050 repeater can be regarded as a network dot in the system and receive dispatching from the dispatching center after inserting the BF-TR1050 smart communication management system.



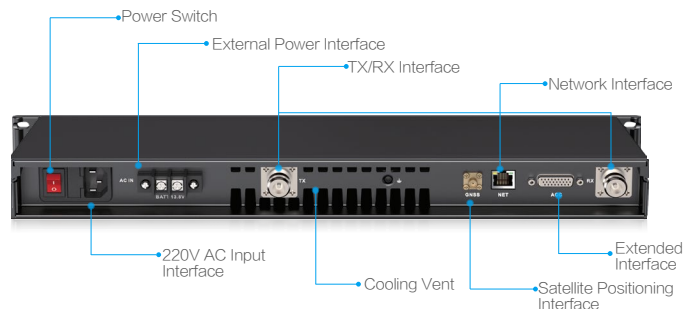
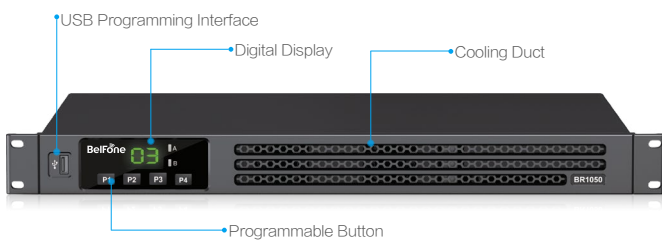
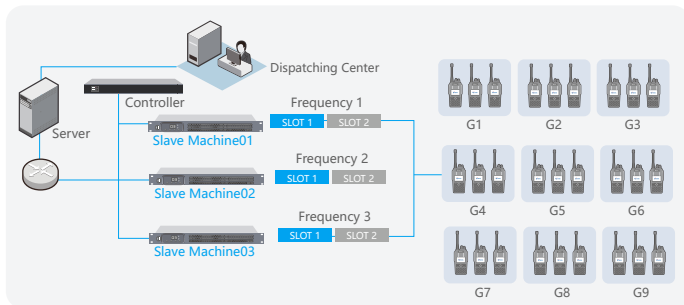
Common-Frequency Broadcasting System

When BR1050 is used as a base station in the common-frequency broadcasting network, only a set of transceiver frequency can realize cross-area and all-round same-frequency coverage, and the terminal can seamlessly switch between the stations to use the same frequency coverage. Thus forming a large area of wireless network coverage, and solving the problem of co-channel interference in the overlapping coverage area.



Dynamic Channel Assignment

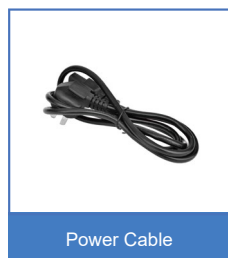
BR1050 can be used as a channel group network in a virtual Trunking system, and the controller can also manage a base station composed of multiple channel machines. In heavy traffic, as long as the channel load is occupied, the equipment will unify the allocation and management of channels within the site, effectively improving the utilization of the channels and call throughput, and reducing call blocking.



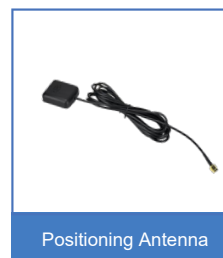
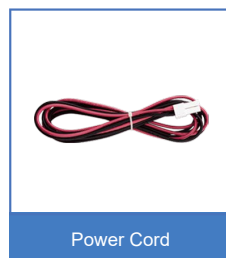
SPECIFICATION

General	
Frequency Range	VHF: 136~174MHz UHF: 350~400MHz/400~480MHz/450~520MHz
Channel Capacity	99
Channel Spacing	12.5KHz /25KHz
Antenna Impedance	50Ω
Main Power Supply	85~132VAC/170~264VAC (By switching) , 3A/115VAC,1.7A/230VAC
Backup Power Supply	11~13.8VDC, 9A
Operating Temperature	-30℃ ~ +70℃
Storage Temperature	-40℃ ~ +85℃
Dimensions (W × H × D)	434mm(L)*309 mm(W)* 44(H)
Transmitter	
RF Output Power	≤50W
Frequency Stability	≤ ±0.5ppm (without GPS) ≤ ±0.02ppm (with GPS)
4FSK Modulation	12.5KHz (data only): 7K60FXD 12.5KHz (data and voice): 7K60FXW
Adjacent Channel Power	≤60dB
Spurious Radiation	-36dBm<1GHz -30dBm>1GHz
Receiver	
Sensitivity	3%BER≤0.35μV
Frequency Stability	≤ ±0.5ppm (without GPS) ≤ ±0.2ppm (with GPS)
Adjacent Channel Selectivity	≥60dB
Intermodulation Immunity	≥70dB
Spurious Response	≥70dB
Blocking	≥95dB

STANDARD ACCESSORIES



OPTIONAL ACCESSORIES



APPLICATION



Industry and Commerce



Public Enterprises



Transportation



Public Security

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BelFone
Communications for Efficiency and Safety

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