

BF-RRU952 Technical parameter

| Appearance | |
|--------------|--|
| Dimension | 144mm × 467mm × 340mm |
| Weight | ≤20kg |
| Installation | Wall-Mounting, Pole-, Mounting, Up-Tower Installation |

| General | |
|---------------------------|--|
| Frequency Range | 350-400MHz; 400-470MHz |
| Modulation | 4FSK |
| Transfer Interval | 10MHz |
| Channel Spacing | 12.5kHz |
| Carriers | 4载频 4 Carrier |
| Channels | 8TX;8RX |
| Operating Voltage | +48V DC |
| General Power Consumption | ≤350W |
| Operating Temperature | -30°C ~ +60°C |
| Storage Temperature | -40°C ~ +85°C (Suggested 0°C ~ 40°C) |
| Operating Humidity | 5%RH~100%RH |
| MTBF | ≥100,000 Hour |
| IP Code | IP67 |

| Transmitting | |
|---|--|
| Carriers | One RRU 4 Carrier |
| Frequency Stability | 0.5ppm |
| Maximum Output Power | 20W Per Carrier |
| 4KSF Frequency-Modulation Deviation | ≤10% |
| 4FSK Transmitting Bit Error Rate | ≤1 × 10 ⁻⁴ |
| Modulation Limitation | ±3.15kHz |
| Frequency Error | ±0.5 × 10 ⁻⁶ |
| Intermodulation Attenuation | ≤-70dB |
| (A CPR) Adjacent Channel Power Ratio(A CPR) | ≤-60dB @ 12.5KHz; ≤-70dB @ 25KHz |
| Spurious Emission | 9.00kHz~1.00 GHz: ≤-36dBm/1.00GHz ~1.2.75GHz: ≤-30dBm |

| Receiving | |
|-------------------------------------|--|
| Receiving Sensitivity | ≤-124dBm@BER5% |
| High Level Error | ≤1 × 10 ⁻⁴ |
| Intermodulation Response Limitation | ≥70dB |
| Block | ≥84dB |
| Spurious Response Rejection | ≥70dB |
| Co-channel Suppression | ≥-12dB |
| Adjacent Channel Selectivity | ≥60dB@12.5kHz |
| Conduction Radiation | 9.00kHz~1.00 GHz: ≤-57dBm/1.00GHz ~1.2.75GHz: ≤-47dBm |

Applications



Railroad lines



Shoreline



Urban planning



Expressway

BF-BBU952 Technical parameter

| Specification | Description |
|---------------------------|----------------------------|
| Dimensions | 410mm *220mm *130mm(W*L*H) |
| Weight | ≤10kg |
| Voltage | 110-220V AC |
| Max Power Dissipation | ≤100W |
| Environmental Temperature | 0°C ~+45°C |
| Relative Humidity | 5%RH-85%RH |
| Availability | ≥99.999% |
| MTBF | ≥100,000小时 ≥100,000Hours |
| MTTR | ≤20分钟 ≤20Minutes |
| Ports | Fiber,E1, Ethernet |
| Maximum RRU Quantity | 12 |



BF-TR952

Digital Distributed Trunking Base Station



BFTR952 is the distributed base station that separates the baseband unit (BBU) and remote radio unit (RRU) from the equipment layer and utilizes optical channels to transmit signals more stably. It's flexibly applied to large-scale signal deployment for lower construction cost, faster establishment, and more flexible networking, plays an important role in Trunking network establishment.

- Wider Coverage
- IP67 Protection
- Improved Base Station Receptivity
- Outstanding Remote Operation and Maintenance
- Flexible Configuration of Digital-Analog Communication
- Reduce Signal Insertion Loss and Attenuation



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Bf-TR952 distributed Trunking base station had separates BBU and RRU to minimize feeder loss and enhance base station coverage. Adopts a distributed design to free the RF unit from the server room and allows it to be installed flexibly through pole mounting, wall mounting, etc. This brings greater flexibility, easier maintenance, lower transmission costs, and wider coverage, thus reducing network construction costs and shortening deployment cycles.

■ BF-BBU952 (Baseband Unit)

BF-BBU952 featured enhanced reliability to provide centralized management, operating and maintaining services for RRU devices, and enables hot standby main modules and hot plug operation. This product can flexibly connect to Remote Radio Units (RRUs) through various ports of optical, E1, and Ethernet ports, as well as hybrid access.



- Standard 19-Inch 4U Structure
- Each Module Supports Hot Plug
- One-site Operation
- Hot Standby Power Supply & Controller Module
- Centralized Network Maintenance
- Multiple RRU Connection Options
- Data Processing/Communicate with RF Module

■ BF-RRU952 (Remote Radio Unit)

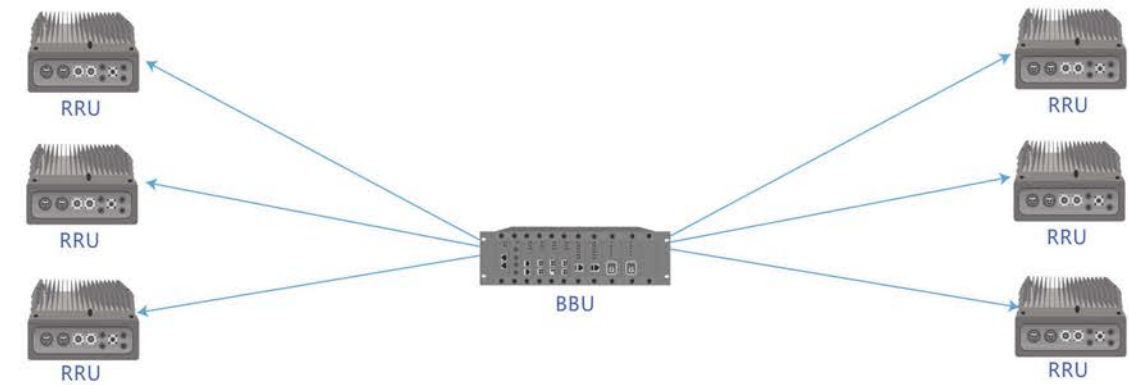
BF-RRU952 is the RF section of the distributed base station designed to meet user expectations in service, capacity, transmission, power supply, installation, and maintenance. Rugged with IP67 waterproof and dustproof, designed with an integrated structure, it enables pole mounting, and wall mounting to facilitate high-rise deployment and flexible up-tower deployment, as well as improve covering capacity and saving feeders.



- IP67 Protection
- Reduce Construction Cost
- Reduce Signal Loss
- Multi-Carrier 4*20W Transmitting Power
- Pole-Mounting/Wall-Mounting
- Aviation Plug
- Integrated Base Station, networking without server room

Networking Mode

Star Connection: One BBU can support maximum 12 RRU



Cascade Connection: Available for optical port or cascade connection, communication range limited to the communication media.



In scenarios where cell towers are available, BF-TR952 separates the baseband unit (BBU) from the remote radio unit (RRU) and deploys the RRU high up the tower to shorten the coaxial cable and reduce the loss. This significantly enhances RF transmission efficiency and expands base station coverage.

