



BF-SFR600

DMR Single Frequency Repeater

- Various communication standards
- Efficient duplex calling
- High output communication coverage
- Dedicated portable power supply
- Working alone alarm
- LCD display
- Double encryption security guarantee
- Belfone SDC-IP System(optional)
- Satellite positioning (optional)
- Bluetooth walkie talkie to free your hands (optional)
- Single Frequency Repeater(optional)



OVERVIEW

BF-SFR600 digital base station is a standard DMR digital communication product. It has various call modes and flexible operation, unique display interface and key design, and high-definition LCD screen that can easily read the display information even in dark light.

HIGHLIGHTS AND BENEFITS

Multiable Communication Modes

SFR600 digital base station supports a variety of optional working mode versions, including PDT/DMR conventional, PDT/DMR trunking, PDT/DMR same frequency trunking, and DMR communication system, providing users with a wide range of choices. Products support private call, group call, full call, emergency call, duplex call and other call modes. The product supports multiple call modes, such as single call, group call, all call, emergency call, duplex call, etc. It supports roaming function in the conventional mode and realizes automatic switching in multi-sites IP interconnection mode. (*Trunking/same frequency trunking/DMR communication system is optional version)

High power communication coverage

SFR600 digital base station has been fully upgraded to provide up to 50W of transmitting power. It makes the signal strength significantly improved, the transmitting distance is longer and the receiving sensitivity is higher, which meets the needs of a wider range of communications and reduce network costs. The Front panel with high power speaker, the audio output is clear and bright, even in noisy environment, it can guarantee stress-free and smooth calls.

BelFone Smart IP Interconnection System (SDC)

SFR600 digital base station can access BelFone DMR digital communication system, including the Smart IP interconnection system (SDC), multi-carrier channel sharing system (SVT). Through the Smart IP interconnection system can realize long-distance visualization and dispatching communication, which can truly meet the intelligent dispatching demand of users to see, to adjust and to call through; through the multi-carrier frequency channel sharing system, it can maximize the channel utilization and call-through rate of terminals in non-standard clusters.

Efficient Duplex Call

SFR600 digital base station provides a new way of calling, with the regular mode duplex calling function, allowing users to realize two-way calls between terminals without taking turns to initiate calls. Providing more timely communication at critical moments, the real-time feedback of voice enables more flexibility in command and dispatching when performing tasks.

Dedicated portable power supply

SFR600 digital base station supports the use of belfone dedicated portable power supply, built-in power supply can switch 220V/110V utility power, forming a professional "base station" mode. The power supply can also be connected to a battery to provide a floating voltage for the battery, overcoming the limitations of a single power supply to use scenarios, ensuring that the power supply is always on standby in case of emergency, easily coping with a variety of complex scenarios, meeting the needs of users in different industries for a long time and high flexibility of free communication. (*Power supply is optional)

LCD Display

SFR600 digital base station is equipped with a 2-inch LCD color screen, which can display multi-line menu and various status information at the same time, with high clarity of imaging content, making it convenient for users to quickly find and obtain information in a short period of time. In addition, the SFR600 is equipped with a special mounting bracket for easy installation and better fixation to prevent the equipment from collision due to strong bumps in the process of vehicle travel.

Double encryption security guarantee

SFR600 digital base station can choose dynamic/static voice encryption, AES256, ARC4 advanced digital encryption to ensure the privacy of calls; it supports setting the power-on password to prevent the leakage of user identity. Using high-performance voice coding technology and high-intensity data encryption technology, it completely eliminates the risk of intentional eavesdropping or information leakage caused by serial frequency, truly realizes source-level end-to-end encryption protection for users and guarantees the security of user calls.

Work Alone Alarm

The SFR600 digital base station supports the function of working alone, when it encounters an emergency, it can automatically transmit an emergency alarm signal to the dispatching system or the formulated target instead of manual operation, and once the system center receives the alarm, it will immediately dispatch the relevant personnel for reinforcement and assistance with the help of the real-time location shown on the map, so as to guarantee the safety of users.

REPEATER SPECIFICATION

General	
Frequency Range	VHF:136-174MHz/UHF:350-390 MHz/UHF:400-470 MHz
Zones	128
Channel Capacity	1024
Channel Spacing	12.5KHz/25KHz
Operating Voltage	DC 13.8V(±20%)
Frequency Stability	±1.5ppm
Antenna Impedance	50Ω
Dimensions	Radio:175 (L) *167 (W) *63(H) mm Microphone: 130 (L) *62 (W) *25(H) mm
Weight	1448g
Bluetooth	Support Options
Transmitter	
RF Output Power	High Power:50W / Middle Power:25W Low Power:10W
4FSK Modulation	Only Data: 7K60FXD, Data and Audio: 7K60FXE
FM Modulation	12.5 kHz: 8K50F3E; 25 kHz: 16KΦF3E;
Modulation Limiting	+/- 2.5kHz @ 12.5kHz; +/- 5kHz @ 25kHz
FM Noise	-40dB
Conducted Emission	-36 dBm≤1GHz/-30 dBm≥1GHz
Adjacent Channel Power	≤-60dB
Audio Response	+1/-3 dB
Audio Distortion	3%
Digital Voice coder Type	AMBE
Receiver	
Digital Sensitivity	5% BER: 0.25 uV
Analog Sensitivity	0.28 uV (12 dB SINAD)
Intermodulation	65 dB
Adjacent Channel Selectivity	60 dB
Spurious Response Rejection	70 dB
FM Noise	-45 dB
Audio Response	+1/-3 dB
Rated Audio Output Power	3W(loudspeaker)
Maximum Audio Output Power	4.5W(loudspeaker)
Audio Distortion	3 % (Typical)
Conducted Spurious Emission	-57dBm
Positioning Accuracy	Horizontal Accuracy≤10m (with well signal)
TTFF (Time To First Fix) Cold Start	< 1minuter (with well signal)
TTFF (Time To First Fix) Hot Start	< 1minuter (with well signal)
Environmental Specifications	
Operating Temperature	-20 C—+60 C
Storage Temperature	-20 C—+70 C

Standard Accessories

				
DC Power Supply	Remote Speaker	Hang Buckle	Platform Support	Fuse

Optional Accessories

				
Program cable	Vehicle antenna	GPS antenna	Bluetooth earpiece	Fiberglass antenna

POWER SUPPLY CASE SPECIFICATION

Operating Environment	-10℃—50℃
Input Voltage	AC 220V±10%/ AC110V±10%
Output Voltage	13.8V±0.2V
Maximum Current	16A—17A
Output Overvoltage Protection	16.5V±1.5V
Return Current	2A—3A
Source Effect	≤5×10 ⁻⁴
Load Effect	≤5×10 ⁻⁴
Periodic and Random Offset	≤15mVP-P
Rechargeable Battery Voltage	13.8V
Charging Current	1A±0.2A
Dimensions	220(H)*151(W)*272(L)mm

Standard Accessories

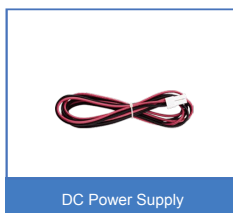


Power Cord

Optional Accessories



Program cable



DC Power Supply

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