

## Specifications

General	
Frequency Range	VHF:136-174MHz;UHF:350-390MHz/400-480MHz/450-520MHz
Channel Capacity	160
Weight	6.9Kg
Channel Spacing	12.5KHz
Working Voltage	DC: 12V AC: 110(±15%) or 220V(±15%) Optional
Frequency Stability	±1.5ppm
Antenna Impedance	50Ω
Dimensions	210(L)*275(W)*180(H)mm
Transmitter	
Power Output	H: VHF:30W/UHF: 25W L: VHF/UHF: 10W
4FSK Modulation	12.5KHz (data only): 7K60FXD 12.5KHz (data and voice): 7K60FXE
FM Modulation	12.5 KHz: 8K50F3E
Modulation Limitation	+/- 2.5KHz @ 12.5KHz
FM Noise	-40dB
Spurious Emission	-36 dBm≤1GHz/-30 dBm≥1GHz
Adjacent Channel Power	≤-60dB
Frequency Response	+1/-3 dB
Audio Distortion	<3%
Vocoder	AMBE+2™
Receiver	
Digital Sensitivity	5% BER: 0.25 uV
Analog Sensitivity	0.25 uV (12 dB SINAD)
Intermodulation	60dB
Adjacent Channel Selectivity	60 dB
Spurious Suppression	70 dB
FM Noise	-40dB
Frequency Response	+1/-3 dB
Audio Power	3W
Audio Distortion	3%(typical)
Conduction Radiation	-57dBm
GPS Precision	Horizontal Accuracy≤-10m (when signal is good)
TTFF (first location)Cold Boot	< 1 minute (good signal)
TTFF (first location)Hot Boot	< 10 seconds (good signal)
Environmental Specifications	
Working Temperature	-20°C~+70°C
Storage Temperature	-40°C~+80°C

BelFone reserves the right to change or update the above specifications without any prior notice. For more information please visit [www.belfone.com](http://www.belfone.com)



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## BF-SFR600

### DMR Single Frequency Repeater

BF-SFR600 is our new single frequency repeater solution which is also able to function as a base station within a system. As a single frequency repeater, BF-SFR600 allocates one timeslot to receive a signal and the other to transmit it at the same frequency, using DMO mode to extend radio coverage. This repeater supports both AC and DC power inputs. When DC power supply is unplugged, the device automatically turns to an AC power source. The two auto-switchable power sources serve as each other's backup, thus delivering more flexibility and stability. This is a smart and cost-effective choice for commercial users who value coverage.



Base Station/Repeater Dual Modes

Extend DMO Communication Distance

Power-on Password

Cost-effective DMR Repeater Solution

IP Multisites Connectivity (With Extra Devices)



[www.belfone.com](http://www.belfone.com)





# BF-SFR600

Single Frequency Repeater



## Highlights

### High/Low Power Switchable

You can choose between high (25W) and low (10W) power output according to the occasion. This can effectively avoid unnecessary energy consumption.

### Good Heat Dispersion

The high quality built-in fan provides sufficient airflow for operation within the specified temperature without derating, and thus enables BF-SFR600 to operate stably for long hours.

### Multiple Sites via IP (Factory Option)

BF-SFR600 supports network connection via the IP port to form a private radio network, thus meeting data and voice communication needs for wide-area coverage and dispersed locations.

### Repeater Power Backup (Optional)

With DC/AC dual power sources, when DC power supply is unplugged, the device automatically turns to an AC power source. The two auto-switchable power sources serve as each other's backup, thus delivering more flexibility and stability.

### Analog/Digital Back-to-Back Interconnect (Optional)

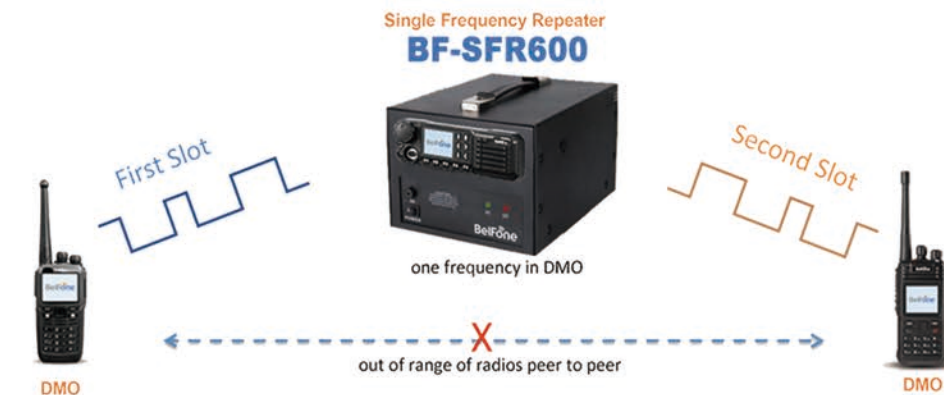
BF-SFR600 supports different operating modes of analog and digital to interconnect for voice crosspatch, allowing analog users to communicate with digital users and vice versa. This delivers a smooth transition from analog to digital.

## Features

- 160 Channels
- Good Heat Dispersion
- 25W High Power
- 2/5 Tones
- Color Code
- DC/AC Dual Power Sources



## TDMA True 2-Slots



## Standard Accessories



Fuse



Remote Speaker



Power Cord