BF-SCP860
Multimode Radio

The BF-SCP860 is an all-in-one multimode radio that embraces broadband & narrowband communication and smartphone functionality. Allowing conventional communication, DMR Trunking, and PoC, this radio provides a reliable communication guarantee for critical voice communication. With audio, video, multi-media dispatch, and other rich applications, it helps to improve response efficiency and enhance visual management capabilities.

- IP68 Protection
- Front & Rear Cameras
- 4G All-Network Trunking
- Private Network Trunking
- Public-Private Integration

- VOLTE
- Rich Applications
- Precise Positioning
- Double-Screen Display
- Switchable Dual Card Dual Standby

BelFone
Communications for Efficiency and Safety

⬚ Double Screen Display

BF-SCP860 incorporates a unique dual-screen interactive design. With a 4.0-inch 1080P screen, it brings a more intuitive visual effect and remains clear visibility even when operating in strong light. Its glove operation and wet-hand operation, made it more convenient for outdoor operations.

⬚ Trunking Communication

BF-SCP860 multi-mode radio featured enhanced Trunking performance and wide system/terminal compatibility, providing reliable critical services for transportation, communication, power cut-off and other disconnecting areas.

⬚ Broadband-Narrowband Communication

The BF-SCP860 featured an automatic public-private network switching. In private network mode, it can interconnect with DMR, Analog, and other narrowband terminals. In public network mode, it works with the BelFone ProChat IoT system and enables unlimited audio and video communication, which can extend narrowband coverage, and guarantee rapid network establishment.

⬚ Comprehensive Positioning

BF-SCP860 supports GPS/GLONASS/Galileo, cellular-based positioning, and WIFI assisted positioning, catering positioning demands in outdoor, indoor, underground, and tunnel environments. Note: Factory default GPS.

📷 Front and Rear Dual Camera

Equipped with 13MP and 8MP dual HD cameras, the BF-SCP860 delivers 1080P clear images, capturing every critical moment. Its VoLTE feature provides high-definition audio/video call services for better audio and video integration.

👆 Dual-Transmission

The BF-SCP860 adopts a dual PTT design, allowing users to customize public-private network priority, bring seamless broadband and narrowband communication. With a 5W transmission power and advance audio processing technology, it further extends private network coverage and enhance audio quality.

💎 Rugged and Durable

Designed with durable industrial-grade plastic material and certificate IP68 protection, the BF-SCP860 is a rugged radio with all-round protection that can withstand a 1.5m drop without damage and endures operating environments ranging from -30℃-60℃. It provides stable and seamless communications even in complex environments such as rain, snow, heat, and humidity.

🔠 Rich Applications

The BF-SCP860 comes with the Android 11 operating system, providing increased security, stability, and compatibility. It can flexibly adapt to third-party applications, effectively expand data, video, and IoT smart applications, catering to various communications demands and enhancing business processing capabilities.

DESIGN HIGHLIGHTS

LCD Angled Screen
Offers clear visibility from any angle.

4.0″ Industrial Screen
More user friendly interface, easier to use

Dual PTT Design
Make public/private network communications more efficient with one click

Function/Programmable Key
Faster and easier operation

One click shot
capture every key moment

One-key Alarm
Constantly safeguarding user safety

HD Front and Rear Cameras
Satisfy demands for both photography and video calls

Dual card dual standby
providing more convenient and flexible communication

Extended battery life
3500mAh battery+2A fast charge

Multiple Charging
Supports Type-C charge, desktop charge and other charging modes

Working Modes	Audio Services	Data Services	Applications	Safety Service	Others
Broadband PoC	Individual Call/Group Call/All Call	Text	Contact/SMS	Emergency Alarm	OTG/NFC
Digital Convention	VOLTE	Status	Camera/Gallery/Recorder	End-to-End Encryption	Positioning/Call Location
Analog Convention	Broadcast Call / Emergency Call	MMS/SMS	Files/Notepad	Air Interface Encryption	Scan/Roam/Remote Monitor
Digital Trunking	Narrowband Call Recording	Data Query	Alarm/Calculator/Browser	Digital Voice Encryption	APP
Broadband PoC	Call Priority/ Voice Broadcast	....	Compass/ Gyroscope/Bluetooth (Optional)	Stun/Remote Kill/Revive	....

TECHNICAL SPECIFICATIONS

Private network	
Frequency Range	VHF:136-174MHZ UHF:400-470MHZ/UHF:350-400MHZ
Channel Spacing	12.5KHz/25KHZ
Frequency Stability	±1.5ppm
Antenna Impedance	50Ω
Output Power	H:<5W L:1 W
4FSK Modulation	Only data:7K60FXD，Voice and data: 7K60FXE
FM Modulation	12.5 KHZ:8K50F3E;25 KHz:16KΦF3E;
Modulation Limitation	+/-2.5kHz @ 12.5kHz;+/- 5kHz @ 25kHz
FM Emission Noise	-40dB
Spurious Emission	-36dBm<1GHz/-30dBm≥1GHZ
Adjacent Channel Power	<-60dB
Frequency Response	+1/-3 dB
Emission Audio distortion	3%
Digital vocoder	AMBE+2™/SELP
Digital Sensitivity	5% BER: 0.25 uV
Analog Sensitivity	0.28 uV(12 dB SINAD)
Intermodulation	65dB
Adjacent Channel Selection	60dB
Spurious Suppression	70dB
FM Noise	40dB
Receiving Response	+1/-3dB
Receiving Audio Distortion	3%
Conducted Radiation	-57dBm

General	
Public Network Frequency Band	3G:WCDMAB1//5/8;+CDMA20001X/EVDOBCO 4G:FDD-LTEB1/3/5/8; TDD-LTE B38/39/40/41
Display	4.0", 1080*540dpi, supports glove operation
Camera	Front:8MP/Rear:13MP
Storage	4GB+64GB
TF Card	Supports up to 256G expansion
Network Mode	China Mobile/Unicom/Telecom
Bluetooth	BT4.2, supports BLE
Charging Mode	Type-C Desktop charge
Positioning	BDS, GPS, GLONASS, Galileo
WLAN	802.1I b/g/n/ac/2.4GHZ，5GHZ5G currently not supported in this sample.
Sensor	Earth inductor/compass, gyroscope, proximity sensor, opto-sensor
Working Voltage	7.6V
Battery Capacity	Standard: 2400mAh(Thin Battery) Optional: 3500(Thick Battery)
Operating System	Android11
Language	Chinese/English
Dimensions	155.6(H)x69.8(W)x26.5(D)mm(Antenna not included)

Environmental	
Working Temperature	-20℃—+60℃
Storage Temperature	-30℃—+70℃
Shock & Vibration	MIL-STD-810C/D/E/F
Protection Grade	IP68

Note: The above specification is tested by the trial standard. Due to the continuous development of technology, the data provided are for reference only.

RELATED ACCESSORIES

STANDARD ACCESSORIES

Antenna　　Thin Battery　　Belt Clip　　Power Adapter　　Type-c Cable　　Desktop Charger

OPTIONAL ACCESSORIES

Thick Battery　　Bluetooth Headset　　Earphone Cable

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SGS ISO CE FC CCC

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