

# BF-SCP950

**Smart Multi-mode Portable Radio** 









#### **OVERVIEW**

In mission-critical communication, situations are more changeable, requirements are diverse, information transmission is mixed and effective collaboration is required. Integrated with LTE and DMR, narrow and broad band, this new smart radio designed for public safety communications with competitive Edge and abundant human-centered features. As a two-way radio, it offers instant and reliable push-to-talk calls for critical voice communications. As a ruggedized smart portable terminal, it brings all the benefits of broadband data to professional users, and offers unified communication experience, rich applications and enhanced data security.

### HIGHLIGHTS AND BENEFITS

#### **Multi-mode Hybrid, Flexible Communication**

Multi-connection in versatile Network, different communication standards supported, broadband and narrowband converged. A multi-mode radio works in DMR convention mode, DMR trunking mode, analogue conventional mode, MPT 1327 trunking mode, PoC (public 3G/4G) and MC-LTE (private LTE) mode, bringing all the advantages of both narrow and broad band technologies together, which could always be stay in connect, to communicate whenever and wherever.



Support abundant third-party customized applications like Body Worn Camera, Navigation, Workorder etc., and various sensors can be integrated to realize more functions and enrich services.



- Dual SIM Dual Standby (DSDS)
- WIFI
- **NFC**
- **RFID**

- **OTG**
- Waterproof fingerprint
- Bluetooth
- **GPS**

















#### **Rugged Screen**

- Super-tough, coming with IP68 rated water-resistance, a durable build with

#### **Dual Cameras**

supports 4K HD video.

#### **Dual PTT**

One for DMR while another for PoC at each side, quick operation.

#### **Perfect Audio Quality**

pick up sound evenly from all directions, be

#### Military Standard

- IP68
- 1.5M drop test

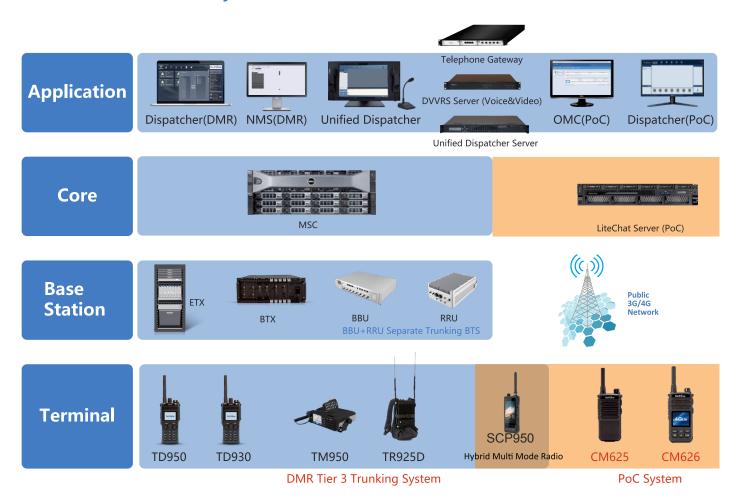
#### **Smart Batteries**

Let you work at ease, gives you more energy, better control and longer operation life.

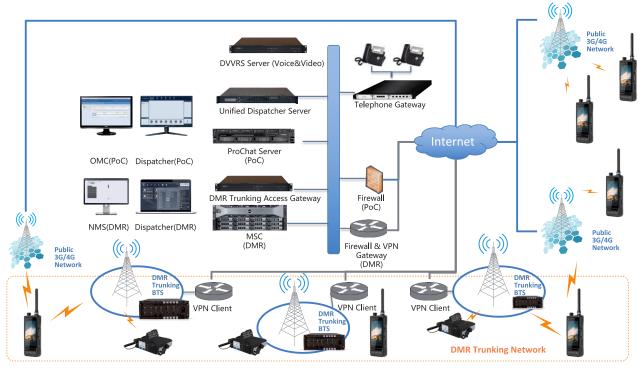




# **Belfone DMR + LTE Hybrid Radio Solution**



### **Topology of Hybrid DMR + PoC Network**







- Channel
- Pront camera
- Indicator
- Oisplay
- Speaker
- 6 Return
- Home

- 8 Antenna
- 20-pin interface
- PoC PTT
- Type-C
- Zoom button
- Rear camera
- Flash
- Belt clip
- **®** NFC
- Charger interface

- B Hand strop hole
- Power
- 20 PTT
- Volume +
- Volume -
- Fingerprint recognition

### **ACCESSORIES**



Infrared Camera



Earpiece



Remote Speaker Microphone



OTG Cable



Headset



Charger

## **SPECIFICATION**

Canaral Charification		DMD D 10 15 15	
General Specification		DMR Part Specificatio	
Network Mode	GSM/WCDMA/CDMA/TD-SCDMA/TDD/FDD-LTE  GSM: 850/900/1800/1900; 3G: WCDMA 850/900/	Frequency Range	VHF: 136-174MHz (Optional) UHF: 350-390MHz/ 400-480MHz/ 450-520MHz
Band	1900/2100 LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B20 LTE-TDD: B38/B39/B40/B41 TD_SCDMA: A/F(B34 /B39) EVDO: BC0	Channels	100
		Channel Spacing	12.5KHz/ 25KHz
Network type	Support Micro SIM, Micro SIM, T-Flash card	Frequency Stability	±1.5ppm
Weight	280g	Antenna Impedance	50Ω
Size	148.8*63.8*28(mm)	Transmitter (DMR Par	t)
Battery	7.6V 2850mAh	Output Power	High power: $4.0 \pm 0.2W$ Low power: $1.0 \pm 0.2W$
Charger	USB Type-C for data copy instead of power charge	4FSK Modulation	12.5KHz data only: 7K60FXD 12.5KHz data and voice: 7K60FXE
Microphone	Support dual noise reduction Mic	Modulation Limitation	±2.5KHz @ 12.5KHz
Configuration	Bar phone	Spurious Emission	-36 dBm ≤1GHz/ -30 dBm ≥1GHz
Hardware		Adjacent Channel Power	≤-60dB
CPU	MTK6765 Octa-core 2.3GHz 64bit	Frequency Response	+1/-3dB
CPU Process	16nm process	Audio Distortion	3%
RAM+ROM (1)	4GB+64GB (standard)	Receiver (DMR Part)	
RAM+ROM (2)	6GB+128GB(Optional)	Digital Sensitivity	5% BER: 0.25μV
TF Card	Max 512G	Analog Sensitivity	0.22uV (12 dB SINAD)
OS	Android 10	Intermodulation	60dB
Display		Adjacent Channel Selectivity	50dB
Display Size	4.0-inch IPS	Spurious Suppression	ETSI/TIA603: 55dB
Resolution	640*1136	FM Noise	40dB @ 12.5kHz 45dB @ 25kHz
TP	PS/G+FF/Multi-touch, usable with gloves and wet hands	Frequency Response	+1/-3 dB
Camera		Audio Power	1.5W
Rear Camera	21MP, support autofocus	Audio Distortion	≤5%
Front Camera	8MP	Conduction Radiation	3%(typical)
Flash	1 flashlight	Sensor	
Environmental Performa	ance	Fingerprint	Support (optional)
Vibration, Drop & Shock	MIL-STD-810G	G-Sensor	Support
Dust and Water Proof	SGS IP68	Geomagnetic Sensor	Support
Working Temp.	-20 °C ~+60 °C / -40 °C ~+60 °C	Proximity Sensor	Support
Connectivity		Ambient Light Sensor	Support
WWAN	2G: GSM 850/900/1800/1900; CDMA 3G: WCDMA 850/900/1900/2100; A/F(B34/B39) 4G: LTE-FDD: B1/B3/B5/B7/B8/B17/B20/B28(Option) LTE-TDD: B38/B39/B40/B41 Dual Micro SIM standby	Gyroscope Sensor	Support
		Barometric Pressure Sensor	Support (optional)
		Man-down	Support(optional)
ВТ	BT4.1	Customization	
WIFI	IFI 802.11 a/b/g/n		Headset Infrared camera Speaker Microphone
NFC	Frequency: 13.56MH, support ISO15693, ISO1443A/B	20-Pin expand	Noise Cancellation headset RJ45 Port OTG port RS-232/RS-485
MIC	Dual Microphones to reduce noise	LTE Private Network	1.4G, 1.8G, 450M(B31), 600M, 700M, 230M(optional)
FM	support	1D/2D Scanner	Support(optional)
GPS	GPS/BEIDOU/GLONASS/GALILEO	Radium Lighting	Support(optional)
DMR	I		
POC Key	Support	RFID module	Support(optional)
Physical Key	PTT key, POC key, Programmable key	Infrared Remote Control	Support(optional)