

Probably the Most Innovative Multi-mode Advanced LTE+DMR Radio



BOXCHIP

Hello, Future!



DMR



LTE

About Us

With the technology rapidly changing and bettering our daily lives, the Telecommunication technology is innovating the future as well to improve our living quality at utmost.

The reality is that two-way radio technology is far behind the telecommunication development, such as fire protection, public security, transportation, medical emergencies etc. The traditional walkie-talkie terminals are still widely used. As all the cases are closely related to human lives, the advanced technology should be used for walkie-talkie terminals and replace the old two-way radio technology.

Boxchip, an innovative and revolutionary venture, founded by a group of experts from Bosch, CAOS(China Academy of Science), Datang Telecom etc. with expertise of over twenty years in the field of telecommunication.

Our mission is to enhance the user experience and betterment of communication in emergency situations, to ensure safety and respect towards human life. Boxchip is world's first company to successfully launch the intelligent multi-mode terminal LTE+DMR, which integrates wide band and narrow band together and make the mobile radio communicating between each other or among the group not only voice, but also with video, text message, photo sharing , etc., All that a smart phone can do, with a better connectivity, enhanced user experience and safety measures for emergency situations.

Say Hello! To the future of telecommunication, it is time for the revolution.



Timely to recall the scene by video

Innovative Convergence



S700A



Radio

+



Smart Phone

+



Body Camera

+



Gateway

+



Repeater



M6 PORT

External PTT microphone, PTT earphone, 1080P camera

Camera Instant Key

SOS

Customize function



BUTTONS

MULTI-FUNCTION KNOB

Power & channel / group

ANDROID 6.0+OS

SMART BUTTONS

Switch between DMR and PoC

TEXTURED PTT BUTTON

VOLUME BUTTONS



BOXCHIP

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HD CAMERA

5MP Front-facing Camera
8MP Rear Camera

WORKING TEMPERATURE

-15° ~60°

4.0 CAPACITIVE TOUCH SCREEN

Gorilla glass III

Stronger resistance to scratches,
impact and indentation

Smart awareness and smart touch
Wet touch and glove touch LCD
Readable in bright sunshine low light

DESIGN

Intuitive, intelligent and concise
user experience

RUGGED AND DURABLE

Ip67 waterproof, dustproof,
shock-resistant, explosion-proof,
Suitable for complex,
harsh environment, etc.

MULTIPLE CONNECTIVITY · CONNECTING

Wired connection: Type C pin port ,Support fast charging
Wireless connections: WLAN 2.4G/5.8G, NFC, Bluetooth
Sensor: Distance sensor, ambient light sensor, 6 axis electronic
compass, gyroscope, acceleration sensor
Location system: GPS, AGPS, Beidou, Glonass

DESIGN

Embedded Battery
No-slip Grip Texture

BATTERY

Standard 4500mAh
One-hand to replace battery



COMPARISON TABLE

ITEM	CPU	MEMORY	CAMERA	DMR	FM
S700a+(Dual PTT)	8	3GB/32GB	5M/13M	✓	✓
S700a	8	2GB/16GB	5M/8M	✓	✓
S700b	8	2GB/16GB	5M/8M	×	×
S700c	4	1GB/8GB	5M/8M	×	✓

MAIN SEPCIFICATION

CPU	8-Core 1.5G
Android	Android6.0+
RAM+ROM	2GB+ 16GB
LCD	4.0inch TFT IPS,400*480pixels,gorllia III
GSM	B2 B3 B5 B8
WCDMA	B1 B2 B5 B8
FDD-LTE	B1 B2 B3 B4 B5 B7 B8 B28
TDD-LTE	B38 B39 B40 B41
Cameras	Dual cameras 5MP & 8MP @30fps (Video mode)
Wi-Fi	2.4G /5.8G
Bluetooth	Dual BT v4.1
GPS	GPS, A-GPS,Glonass
Speaker Output	Φ36,2W
NFC	Yes
Port	Type-C,M6
IP code	IP67
Explosion-proof	EX IC IIB T4 Gb
Battery capacity	4500mAh

DMR SPECIFICATION

DMR/Analogue FM	ETSI DMR Tier II, 400-470MHZ
TDMA	Yes
Channel Spacing	25/12.5kHz
TX Power	1W/2W
RX Sensibility	≤-121dBm
Inter-modulation	≥60dB
Blocking	≥80dB
Suppression of Spurious Response	≥70dB
Frequency Stability	± 1.5ppm
Antenna Impedance	50Ω
Audio Output	2W(Rated)
Audio Distortion	≤5%
Encryption	AES 128
Microphone	NRR: 30dB(Static), 20dB(Non-static) AEC: > 60dB

ACCESSORIES

STANDARD		OPTIONAL
USB Cable	1 pcs	Earbud Base set with PTT button and microphone
Charger	1 pcs	Remote Micro Speaker
Back Clip	1 pcs	PTT earphone with external camera
Antenna	1 pcs	Dock charger
User Manual	1 pcs	Charger station



Multi-mode Advanced Radio Application Scenario

Boxchip products are used for Government and Public Security, Airport, Port, Metro and Railway etc.



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