

# BEAMmesh Series MANET Broadband MESH Handheld

## Powerful, Delicate and Lightweight

- Supports two-band selection in UHF/L Band/S Band/C Band, switching work
- 1T2R, 1W linear silicon-based gallium arsenide power amplifier, dual antenna diversity reception, -103dBm@5MHz high sensitivity.
- Space-time coding, high-speed throughput above 56Mbps; Spatial multiplexing, the rate of more than three hops does not decline
- Classic SDR platform, software and hardware are independent and controllable
- HTDMA, large-scale networking of nodes above 256
- Heterogeneous intelligent channel selection networking, and dynamic adaptive frequency hopping strong anti-interference
- Support DES/AES and other software encryption, and TF card hardware encryption
- It is compatible with MIMOmESH/SMARTmESH/ULSC series
- PDT/DMR digital intercom, and 4G/5G routing, can be expanded
- Rugged, friendly to the touch, IP67 waterproof, military-grade harsh environment



*Performance, Wireless, Professional*

# MANET Broadband MESH Handheld Specifications

System Parameters	
Application processor	Octa-core A53 processor with maximum operating frequency of 1.8GHz
Operating system	Android 6.0
Screen parameter	1.8", TFT LCD(320 X 240)
Memory/storage	2GB RAM+16GB ROM, 128G Micro SD
Voice services	Supports VoIP (PTT) and multi-party conferences
Data service	Support file transfer, short message, GIS, iot data transmission, etc
Video service	Video pull-up, video conferencing, and more are supported
Audio, video and data interfaces	20PIN LEMO IP/USB, 5PIN aviation head words, WiFi IP
Main and standby batteries	7.2~8.4V, 6800mAh
Endurance time	≥6h (Transmit: Receive: idle = 1:1:1)
Locate the navigation	Built-in GPS/BD
Size	15.5x6.6x3.2cm (Contains lithium battery, does not include antenna and back clip)
Weight	430g (Contains lithium battery, does not include antenna and back clip)
Environmental	
Protection Level	IEC60529-IP67(1.5m, 0.5h)
Shock and vibration	MIL-STD-810G
Operation Temperature	-40°C ~+80°C
Storage temperature	-55°C ~+100°C
Humidity requirement	10%~90%(No condensation)

Wireless communication	
Communication format	Mobile Ad-hoc NETWORKING Ad hoc network
Working frequency	350-450/450-550/570-700/800-950MHz, (70M~6GHz, 1000-1200/1300-1500/1600-1800/1800-2000,1200-1700*MHz, 2.0-2.2/2.2-2.5/2.5-2.7/2.7-2.9,1.6-2.3/1.9-2.7*GHz, 4.4-5.0/5.25-5.85, 4.2-5.2/5.5-6.0*GHz
transmission system	TDD-COFDM
Receive sensitivity	≤-103dBm@5MHz
Transmit power	1W
Carrier bandwidth	1.25/2.5/5.0/10.0MHz Optional
Transmission capability	56Mbps@10MHz
Modulation Mode	BPSK/QPSK/16QAM/64QAM/256QAM(Adaptive)
Network scale	Same-frequency networking supports more than 256 nodes
Anti-jamming Mode	Inter-frequency intelligent channel selection, full-band dynamic adaptive frequency hopping
Encryption	DES56/AES128/AES256 Optional
Interface	
Antenna Interface	SMAx2
IP Interface	Waterproof navigation plug (reusable with USB interface)
USB Interface	Waterproof navigational plug (reusable with IP interface)
Headset interface	Contact Wired Headset (PTT)
Basic peripheral	Microphone (dual MIC), speaker
Front key	Menu button, Home button, confirm button, back button, 4 way button, number button
Side key	PTT button, Volume adjustment button, Power button (top), SOS button (top)
WiFi AP	2.4GHz/5.8GHz, 802.11b/g/h

## Standard Fittings



Dual frequency high sensitivity antenna



Main and standby batteries (6.8Ah)Lithium polymer battery)



Dual card charging base



LEMO head IP cable  
LEMO head USB cable



LEMO head USB cable to camera



WiFi PAD (6" / 8")

## Optional accessories



Bone conduction headphones  
Bluetooth headphones



USB to IP



USB to S bus



WiFi Smart Helmet



WiFi Deployment Camera



Intelligent Terminal

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