



Broadband Mesh Handheld BHK-100

- ✓ NETWORKING-READY UPON POWER-ON
- ✓ EXPANDABILITY AND CONNECTIVITY
- ✓ COMPACT AND LIGHTWEIGHT
- ✓ QUICK CONFIGURATION
- ✓ SUPERIOR PERFORMANCE
- ✓ SECURE, SOLID AND RELIABLE

OVERVIEW

The use of mesh technology is exploding in professional communication for various industries. Broadband Mesh Handheld BHK-100 is the mesh radio that provides mission critical voice, data, video as well as AI services, which is built to create secure, scalable and flexible networks for those out of cellular coverage.

As the world's most miniaturized mesh radio, BHK-100 frees up valuable space and weight for extreme portability. Configured with multi-band, BHK-100 has the outstanding anti-jamming ability by auto frequency selection. Designed to survive harsh conditions, the BHK-100 is your reliable partner you can count on at critical moment.



HIGHLIGHTS

Superior Performance

- 4G & 5G cutting-edge technology
- Robust radio link and longer range by powerful detection ability and outstanding RF performance
- Superior anti-jamming by auto frequency selection on dual-band (U and L band)

High Integration Capacity

- Integrating CP and AP on a SoC
- Max throughput 50Mbps (to be enhanced further)
- Max node number 32 (to be enhanced further)

Exceptional in Everyway

- Small size with 137 x 60 x 27.8 mm
- Light weight with 288 g
- Low power consumption with 3W (typ.)
- Long battery life 36-hour (Standby)

Flexibility and Scalability

- Diversity of scenarios by standalone or hybrid networking
- Strong scalability with rich interfaces and various accessories

BHK-100 Broadband Mesh Handheld

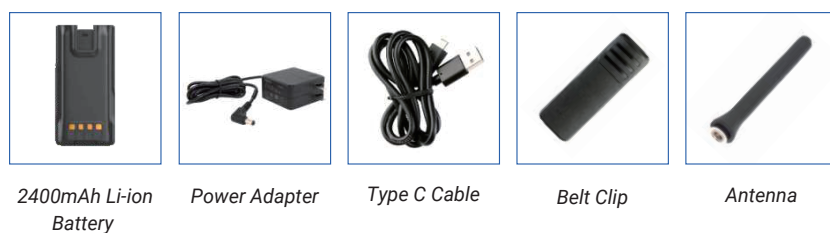
SPECIFICATIONS

General	
Processor	Octa-core Cortex-A53 1.8 GHz
OS	Intelligent operating system
Screen	OLED 1.3; 128 x 64
Memory/Storage	2GB RAM+16GB ROM (optional)
Audio and video services	20-pin connector/Type-C/Wi-Fi/BT Optional: Ethernet-to-USB adapter, HDMI-to-USB adapter
Card Slot	Nano SIM Card, Micro SD Card
Encrypt	AES128 / Snow3G, supports third-party hardware encryption
Battery	AES128 / Snow3G, supports third-party hardware encryption
Battery Life	Standby time : not less than 24 hours (no business) Operating time: up to 6 hours (Normal Mode)
Charging	Weight (with Battery) 3.1 kg
WLAN	802.11 b/g/n
BT	V4.1 BDR/EDR/BLE
GNSS	GPS/BDS, FTTT 1 minute
Dimensions (H x W x D)	137.5 x 60 x 27.8 mm
Weight (including battery and Antenna)	288 g

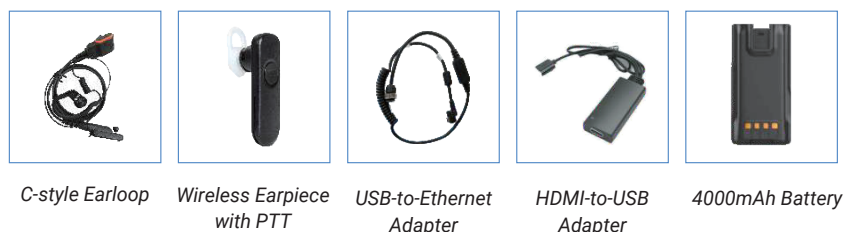
Radio	
Frequency	Mesh: 512~582 & 1430~1444MHz The other customized frequency
RF Channel	580MHz: 1T1R, 1.4GHz: 1T2R
Receive Sensitivity	580MHz: -101dBm@10MHz; 1.4GHz: -102dBm@10MHz
Transmit Power	0.5W (typical), 0.75W (max)
Bandwidth	5/10/20MHz, the other customized bandwidth
Throughput	50Mbps (max)
MCS	Adaptive QPSK/16QAM/64QAM
Other	AMC, Auto Frequency Scan and Selection, HARQ, Frequency-Selection scheduling etc, Dynamic frequency hopping (DFH).

Environment	
IP Seal Rating	IEC60529-IP67 (1.5m, 0.5h)
Reliability	MIL-STD 810G
ESD	TEC 61000-4-2 (Level 4), ± 8 kV (contact), ± 12 kV (air)
Operating Temperature	-20°C to +55°C
Storage Temperature	-30°C to +80°C
Humidity	5%~100% RH

ACCESSORIES



Optional



APPLICATION SCENARIOS

