

BN500 Specification



Model	BN500 (Broadband + Narrowband)	
PHYSICAL CHARACTERISITICS		
Dimension	137.2mm*59.4mm*28.5mm (for 4000 mAh) 137.2mm*59.4mm*35.2mm (for 7000 mAh)	
Weight	311.5 (for 4000 mAh)	
ENVIRONMENTAL		
Dust And Water Intrusion (Ingress Protection)	IP68	
Drop Test	1.5m	
Working temperature	-20 to +60°C (-2°F to 140°F)	
Storage temperature	-30 to + 70°C (-40°F to 158°F)	
Humidity	0%RH~95%RH	
INTERACTION & DISPLAY		
Display	Diagonal dimension	3.5" WVGA
	Resolution	480*800
	Touch Panel	support multiple touch,glove touch, wet finger touch
Indicator	Single LED	three color
Buttons	Front	Menu/ Home/ Back key, multi-function key P1/P2/P3
	Top	Rotary knob/ Emergency Button
	Left	Power button/ DMR-PTT Button/ PTT button/ Volume (Up / Down)
HARDWARE		
Processor	MTK6765, Octa-Core, 2.3GHz	
Memory	4GB RAM + 64GB ROM	
Camera	Front: 5MP; Rear: 13MP AF. Flashlight: one in rear (support torch mode)	
SD Card	Max 256GB	
Battery	4000mAh (on image) / 7000mAh	
Receiver	Single	
Vibration	Support	
Voice Call	Support	
Sensor Platform	Standard	G-sensor/ Light Sensor/ Proximity-sensor/ Geomagnetic
	Optional	Gyroscope
CONNECTIVITY		
Cellular Network	GSM: B2/B3/B5/B8 WCDMA: B1/B2/B4/B5/B8 TD-SCDMA:B34/B39 CDMA2000 1X/EVDO BC0 FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B12/ B13/B17/B18/B19/B20/B25/ B26/B28a/B28b/B66 TDD-LTE: B34/B38/B39/B40/B41	
VoLTE/ViLTE/VoWiFi	Support (Depends on MTK and the local operator)	
DMR	Frequency range	UHF 400~~470MHz (VHF optional)
	TDMA	2 Time slots (repeater mode)
	Transmitting power	2W
	Channel spacing	12.5 kHz (digital)
	Antenna	External DMR antenna
WiFi	2.4G & 5G WIFI, Support wifi hotspot	
Bluetooth	5.2 Support BLE	
Location	GNSS	
NFC	YES	
INTERFACE		
SIM Card Slot	Nano-SIM Card Slot * 2	
SD Card Slot	SD Card Slot * 1	
Audio interface	M6 Radio Grade Audio Jack *1	
USB	Type-C Standard : 5V 2A / 9V 1.67A Max	
Desktop Charger Interface	Desktop Charger Interface *1	
OPERATING SYSTEM		
Standard	Android 13 with GMS	
AUDIO		
Microphone	Dual MIC	
Noise-cancellation	Dedicated Noise-cancellation chip	
Speaker	φ40mm 3W Built-in Speaker	
ACCESSORIES		
STANDARD ACCESSORIES	USB-C Cable	
	5V 2A Travel Charger	
	Battery	
	Belt Clip	
	Quick Start Guide	
OPTIONAL ACCESSORIES	Desktop Charger	Optional
	Multi-unit Charger	Customizable
	Remote Speaker Microphone	Optional
	PTT Earphone	Optional
	Airtube PTT Earphone	Optional
DISCLAIMERS		