Technical Specification

General Specification	
Model number	HT786-MaxMesh
Frequency range	MHz - 225-470MHz
Channel spacing	All WF included in the radio-selection via the MMI
Net preset	40 selectable channels
Data interface	USB, RS232
Integrated GPS	±10 m CEP (circular error probability)
Frequency stability	±2.5 ppm
Frequency tuning	1 KHz, 5 KHz, 10 KHz, 100 KHz
Synchronization method	dynamically self-organizing TDMA synchronization method (no need for GPS)
Physical Specifications	

Security	
Encryption AES 128 bit. k Unit Elimination Remote r	(ey programming through keypad or PC host. adio elimination
Power	
Battery	2 cell Li-lon rechargeable battery @ 7.4VDC nominal
Power consumption	Average battery life > 5 hours @ 1:17:8 ratio (transmit: standby: receive ratio)
Battery capacity	High capacity: 2400 mAh
Environmental	
Shock/vibration	MIL STD 810 C/D/E/F
IP rating	IP68
Temperature	-20°C- +55°C
Transmitter	
Power output	Programmable 100mW/500mW/1W/2W
Antenna	50ΩOmni antenna – 265mm length Frequency: 225 MHz – 512 MHz Type:

network	
WF GMSK 384 KHz, up to 32 units with 3	Recei
hops and up to 72 Kbps data rate	Narro
WF GMSK 1.5 MHz, up to 64 units 6 hops and up to 720 kbps OR up to 32	Middle
units 8 hops and up to 720 kbps data rate	Widek

Whip antenna

Receiver	
Narrowband sensitivity	< -109dBm @0.1% BER
Middleband sensitivity	< -100dBm @ 0.1 BER
Wideband sensitivity	< -95dBm@ 0.1% BER

Accessories

Modes and waveforms (WF)

Weight Dimensions

Narrowband

Voice and data mode

Voice and high rate data

Supplied package includes: Li-lon battery pack, rapid charger, spring clip & high efficiency antenna

280g, excluding battery and antenna

130 mm (h) x 59 mm (w) x 37 mm (d)

WF 25 KHz QPSK, voice broadcast only



CSBHT Six-way charger



CMP750E Heavy duty speaker mic



EA12/750 Earpiece microphone



EA15/750 Covert earpiece /



CXR16/750 Throat mic. Bone conductive



CXR5/750 Skull mic. Bone conductive



CXE19/750 Bone conductive both transmit & receive



CHP750S Hard hat eardefender. submersible PTT



CHP750HS Headband eardefender, submersible PTT

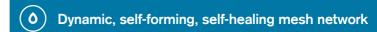


All specifications are subject to change without notice. For the complete range of accessories please visit our website

MaxMesh Tactical UHF

Mission Critical Communications









(o) IP68 submersible

Connecting | SELF FORMING NETWORK | Beyond Network Reach



Contact

For more information about our products please contact us:







MaxMesh Tactical UHF

Digital Portable Radios

MaxMesh Tactical UHF portables employ cutting edge Mesh Radio technology ensuring robust, clear and efficient voice and data communications even in the most challenging of mission-critical environments.

When teams work together in critical, tactical, and emergency situations, they need to instantly deploy reliable, quickly and easily communications – without interruption and regardless of their physical surroundings. The maxtech networks MaxMesh Tactical UHF portables enable them to do just this.

Why MaxMesh Tactical UHF?

Superior voice quality

Can be deployed instantly anywhere, anytime

No need for repeater base stations to increase range

Does not require a GPS signal for network synchronization

Proprietary over-air protocol and AES 128 for enhanced security

Overcomes physical obstacles by applying an advanced dynamic mesh network with no user intervention

The MaxMesh Tactical UHF Portable

is a unique software upgradeable radio that creates a dynamic, self-forming, and self-healing network to enable long-range voice and data transmission whilst on the move.

A patented algorithm is used to ensure superior voice quality and high data throughput for indoor and outdoor operations, without the need for GPS synchronization, to enable units to join and leave the network dynamically without any user intervention.

The MaxMesh Tactical UHF ensures multi-hop voice and data

relaying to create a reliable and robust network over large distances.

Covering the 225-470 MHz frequency range, this multiband radio provides a variety of waveforms:

Narrowband, 25 KHz (QPSK) – Voice Broadcast mode

Middleband, 384 KHz (GMSK) – Up to 32 units with 3 hops & up to 72 Kbps data rate

Wideband, 1.5 MHz (GMSK) – Up to 64 units 6 hops & up to 720 kbps data rate OR up to 32 units 8 hops and up to 720 kbps data rate

The MaxMesh Tactical UHF portable also includes a built-in GPS which provides situational awareness information to command and control applications, or other management systems.

Transmitted voice and data is highly secure due to a multi-layer security method that includes a proprietary air protocol and AES 128 encryption.

The combination of MaxMesh technology with advanced SDR capabilities ensures quick and efficient transmission of mission-critical voice and data in a wide range of applications and in the most challenging environments.



Main Features

