

WAVESWAY MU7

Portable, small, light, most cost-effective Smart Radio for Mobile Ad Hoc Networks (MANET) with proven performance in the most demanding environments.



The WAVESWAY MU7 creates powerful, highly secure networks in any environment. Though it looks like an ordinary portable radio, it always works as a repeater, bringing together data and voice in real time and relaying the signal.

Long-range

Any coverage area can be provided through network configuration. Proven coverage area of more than 10000 square kilometers with thousands of subscribers.

Longer mission endurance

12 hours per charge for standard missions.
Replace the battery within seconds.

Rapidly Deployable

100% off-grid network deployment for teams in minutes.
No additional equipment is needed to set up a large-scale network in an hour.

Stay Connected Anywhere

Most radio devices struggle to maintain signal when travelling through urban, subterranean and maritime environments. Yet, the MU7 thrives in these complex RF restricted environments. With the ability to self-form and self-heal, the MU7 routes your data around obstacles by using multi-path propagation, maximising network performance, agility and mobility.

Scalable

The number of subscribers and retransmissions is unlimited.

Remote Control and Monitoring

Remote monitoring of location, signal strength and battery level.
Programming of device parameters via radio channel.

Lightweight

Significantly lighter than standard radio options at 8.4 oz (235g).

Continuous Connectivity On The Go

Every device on a WAVESWAY network communicates with each other, forming a true peer-to-peer mobile network without the need for a master node or base station. Add or take away radios from the network without losing connectivity or having to reconfigure your devices. Routing data from radio to radio enabling the network to grow, adapt and extend as more radios are added.

Rugged Design For Any Environment

Able to withstand extreme conditions in the harshest environments, meeting the highest standard ratings for temperature, shock, water and dust resistance.

Low Profile

It is difficult to detect because it utilizes short burst transmissions and an advanced MANET protocol.

Secure

Secure broadcast, private, and group messaging using AES 128-bit encryption.

Specifications

General		
- Dimensions		12,5 x 5,1 x 2,5 cm (5,3 x 2,5 x 1,5 in.)
- Weight		235 g (8,4 oz)
Protocol		
MANET protocol		Proprietary WAVESWAY protocol
Communication		Voice and Data
Number of logical channels on the same frequency		up to 200
Number of simultaneous conversations on the same frequency		up to 4
Number of Subscribers in Network		unlimited
Number of Hops		unlimited
Secure		AES128-bit encryption
Transceiver		
- Frequency Band		862–872 MHz, 902 - 928 MHz
- Output Power		up to 2W (computer programmable)
- Receiver Sensitivity		-105 dBm
- Data rate		100 - 1000 kbps
Environments		
Protection		IP65
Temperature Range	Operational (standard)	-20 to 60 C (-4 to 140 F)
	Operational (optional)	-40 to 55 C (-40 to 131 F)
	Charging	0 to 45 C (32 to 113 F)
Battery		
Battery Capacity		2000 mAh (3600 mAh optional)
Nominal voltage		7,5 V
Operating time		up to 12 hrs
Interfaces		
Antenna Port		SMA
GPS/Galileo/GLONASS/QZSS		SIM68MD

Package:

- Transceiver
- Battery
- Antenna
- Charger
- Belt clip

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