

# TrellisWare TW-225-01 CheetahNet Mini

## TrellisWare TW-225-01 CheetahNet Mini

### Supplies of the equipment stopped

#### TrellisWare Tactical Voice Communications Handheld



TrellisWare TW-225-01 CheetahNet Mini is a rugged handheld device for tactical voice and data applications. CheetahNet Mini offers secure voice channels and data connections, and attaches to external platforms, such as a PC or an Android™ device.

First responders in critical emergency situations or warfighters in shipboard operations can rely on TW-225-01 to deliver robust communications with simultaneous voice, data, and Position Location Information (PLI).

CheetahNet Mini runs with the TSM™ waveform, which allows for network mobility and scalability—from 10s to 100s of radios, in any challenging RF environment. In the TSM infrastructure-less network, CheetahNet Mini maintains 12 independent cellular quality voice channels with AMR 5.9 or MELPe audio encoding, encryption security, and high dynamic and range capability.

#### TSM Benefits

- ✓ Infrastructure-less MANET
- ✓ High-speed wireless IP networking
- ✓ Self-forming, self-healing
- ✓ Scalable to 200+ nodes
- ✓ Robust in harsh environments
- ✓ Non-routing network

#### TW-225-01 CheetahNet Mini Features

- ✓ Secure voice and data encryption
- ✓ Connect to PC and Android devices
- ✓ Uses transfective LCD display for controlled visibility

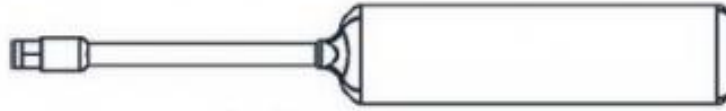


[AT Communication](#)

### Specifications

Size	4" (H) x 2.5" (W) x 1" (D)
Weight (R/T only)	11 oz
Frequency Range	1775–1815 MHz, 2200–2250 MHz
Occupied Bandwidth	20 MHz, Configurable to 4 MHz
Transmit Power	2 W
Battery Life	9.5 Hours with 32 Wh Rechargeable Battery
Environmental	MIL-STD-810G
Water Resistant	2 M Immersion
Connectors	LEMO Audio, SMA RF and GPS Antennas, 24-pin for Dongles
Data Rate	8 Mbps IP Throughput per Channel
Audio Encoding	AMR 5.9 or MELPe
Audio Latency	3 Hop < 275 ms; 8 Hop < 400 ms
Net Entry Time	< 1 Second
Waveform	TSM
Routing	Barrage Relay™ networking
Modulation	Constant Envelope

**TW-1136 1800/2200 MHz  
Dual Band Antenna**



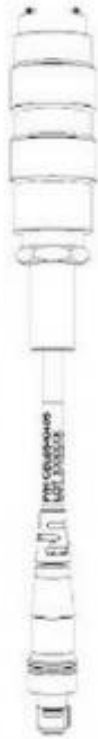
**TW-225  
CheetahNet® Mini**



**TW-1110  
GPS Antenna**



**TW-1415  
LEMO-to-6 Pin  
Headset Cable**



**TW-1222  
Ethernet-USB  
Combo Dongle**



**TW-1450  
32 Wh  
Rechargeable Battery**



**Common TSM Networking**

Network Coverage	Mobile Ad-hoc Networking (MANET)
	Range – 26 Mile LOS per Network Hop
	Multi-hop – Up to 8 Hops
	200+ Nodes in a Single RF Channel
Communication Services	Robust in Harsh RF Environments
	Simultaneous Voice, Data, PLI
	12+ Cellular Quality Voice Channels
	Up to 12 Simultaneous Video Streams
	Built-in GPS
Security	IP Support – IPv4, IPv6; Unicast, Multicast, Broadcast; TCP, UDP
	AES-256
	OTAR, OTAZ
	Remote Disable
	RSA-2048

	SHA-256
Application Support	Built-in Web Applications
	Over the Air Remote Control
	APIs for 3rd Party Integration
	PLI with CoT, KML, and JSON
	Integration with Android™

### Applications

- ✓ Handles IP data in tactical voice applications
- ✓ Delivers secure voice and IP data connections
- ✓ Easily change parameters and view network status with LCD display panel
- ✓ Operates with other TSM products

### Supplies of the equipment stopped

**TW-225-01 CheetahNet Mini - MANET - Military - Tactical**