

TSM™ WAVEFORM

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TSM is the leading Mobile Ad-hoc Networking (MANET) solution to support uninterrupted communications in real dynamic environments. TrellisWare's Barrage Relay™ at the core of TSM, eliminates routing, minimizes network overhead, and provides unrivaled scalability. TSM supports 250+ nodes in a single channel, enabling a truly flat network.

The TSM waveform provides mission critical voice, situational awareness, and data sharing without depending on infrastructure or pre-deploying equipment. As a true Software Defined Radio (SDR) waveform, TSM is embeddable into platforms that range from commercial micro unmanned aerial systems to tactical radios. The result is a TSM ecosystem that enables interoperability between partner platforms, sensors, and systems that form one powerful network.

THE POWER OF ONE NETWORK

TrellisWare works to solve the toughest problems facing tactical communications. Our unique technologies provide scalable and robust mobile ad-hoc networking for any RF environment, and interoperability between systems across dynamic topologies—all in one powerful network

TrellisWare is a privately held company in San Diego, California. Our company launched in 2000 with an innovative culture striving to push technological boundaries in the areas of wireless communications. We are now a worldwide leader in highly advanced algorithms, waveforms, and communications systems that range from small form factor radio products to fully integrated solutions. TrellisWare is delivering the next generation of communications for military and commercial markets *When Nothing Else Works™*.

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TrellisWare
TECHNOLOGIES

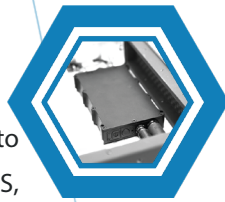
THE POWER OF ONE NETWORK



TW-870 TSM GHOST™ RADIO

SMALL FORM FACTOR RADIO

Data modem designed for rapidly embedding into host platforms. It features external power, data, GPS, and RF antenna connectors, and Ethernet via a cable adapter. The radio covers the UHF, L-band, and S-band frequencies, and is ideal for fast deployed mobile ad-hoc networking scenarios.



TW-875 TSM GHOST™ RADIO

RELAY DEVICE WITH BUILT-IN BATTERY

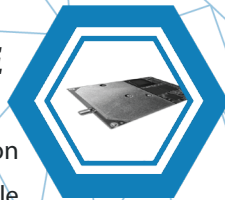
Low-profile, fully operational small form-factor radio offering situational awareness through its continuous PLI reporting and IP data capabilities. The radio features GPS and RF antenna connectors, built-in battery and external power, data connector, and a small LCD display. TSM Ghost provides the capability to support coalition partners with tactical tracking.



TW-650 TSM SHADOW™ MODULE

SOFTWARE-DEFINED RADIO (SDR)

TrellisWare's single-board radio is built for integration into custom platforms, UAVs, and robotics. This single radio module includes UHF, L-band, and S-band frequencies, and is low profile in design with optimal size, weight, and power. The TSM Shadow module has fully-compatible networking functionality with all current TrellisWare™ radio products.



TW-900/TW-950 TSM SHADOW™ RADIO

WIDE-FREQUENCY RANGE, HIGH-THROUGHPUT

TrellisWare's TW-900/TW-950 TSM Shadow radio features unparalleled performance powered by the TSM waveform. The radio provides an expanded frequency range, higher throughputs for streaming multiple HD videos, and is interoperable with devices that run TSM-X™ waveform functionality.



Wide-Frequency Coverage
225-450 MHz
698-970 MHz
1250-2600 MHz

Built-In GPS
For Situational Awareness

Pull-To-Turn On/Off
Voice Channel Selector

Built-in AES-256 Security

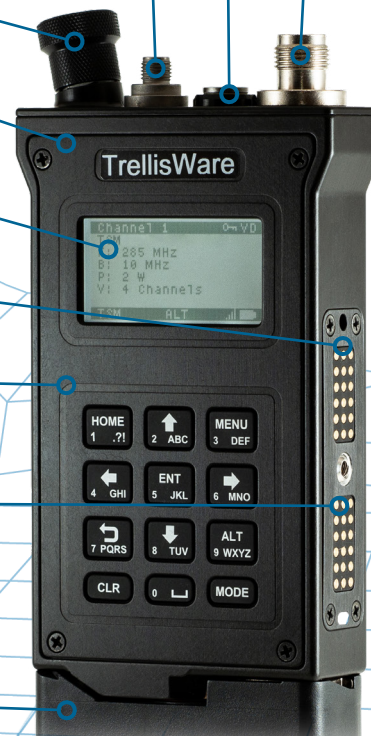
Front Panel
Programming

Supports up to 16 Mbps
Throughput

MIL-STD-810G

Expanded Side Connector
Supports
1080p 30fps HD Video

TW-1450 Li-Ion
Battery Compatible



PRIMARY ACCESSORIES

- TW-1605-V Cable 6-Pin Audio & USB
- TW-1143-TNC +4 dBi Antenna
- TW-1400-6-18 V Power Adapter

ANTENNAS

- TW-1110-GPS Stub Antenna
- TW-1140-1800/2200 RF Antenna
- TW-1150-L-UHF Antenna
- TW-1160-L/S Band Antenna
- TW-1165-Tri-Band Antenna

DONGLES

- TW-1212-Ethernet Pigtail Dongle
- TW-1230-USB Host Dongle
- TW-1250-Multi-Sensor Dongle
- TW-1260-Wi-Fi Dongle
- TW-1265-USB 6-Pin Pigtail Dongle

AUDIO/DATA

- TW-1610-V Cable 10-Pin Audio & USB
- TW-1615-6-Pin Audio Adapter
- TW-1620-10-Pin Audio Adapter
- TW-1635-Audio Adapter
- TW-1670-USB Type-A Adapter

POWER

- TW-1390-Power Adapter
- TW-1401-Power Pigtail
- TW-1402-MBITR Power Adapter
- TW-1406-Binder to BA-5590 Power Cable
- TW-1407-Binder to TAJIMI Power Cable
- TW-1450-32 WH Rechargeable Battery
- TW-1460-Single Battery Charger
- TW-1465-6-Bay Battery Charger

VEHICULAR

- TW-1190-Dual Band Vehicular Antenna
- TW-135-TSM Shadow High Power Radio (coming soon)