TrellisWare
T E C H N O L O G I E S

The Most Powerful Networking Radio

TW-135 TSM SHADOW HIGH POWER RADIO (HPR)

HIGH POWER NETWORKING

TrellisWare's TW-135 TSM Shadow HPR complements the TW-950 TSM Shadow by providing greater transmission power and supports a wide range of configurations.

PROVEN SCALABILITY AND PERFORMANCE

TrellisWare's patented Barrage Relay networking eliminates the need for routing protocols and allows for massive network scalability with low overhead. TrellisWare's TSM waveform facilitates secure mission critical voice and data delivery in the most severe conditions. The result is an exceptionally robust, flat network that supports hundreds of nodes, using less spectrum than any other Mobile Ad Hoc Networking (MANET) technology.

KEY FEATURES

- Contains all of the features of the TW-950 radio
- Delivers 20 Watts of transmit power in UHF, L-band, and S-band to extend and strengthen MANET networks
    - Provides long range transmissions as a backhaul in challenging environments
    - Capable of up to 200 miles when Long Range Mode license feature is enabled
- Versatile form factor that supports vehicular, airborne, fixed-site, or manpack configurations
    - MIL-STD-1275 compliant power interface to support military vehicle installation
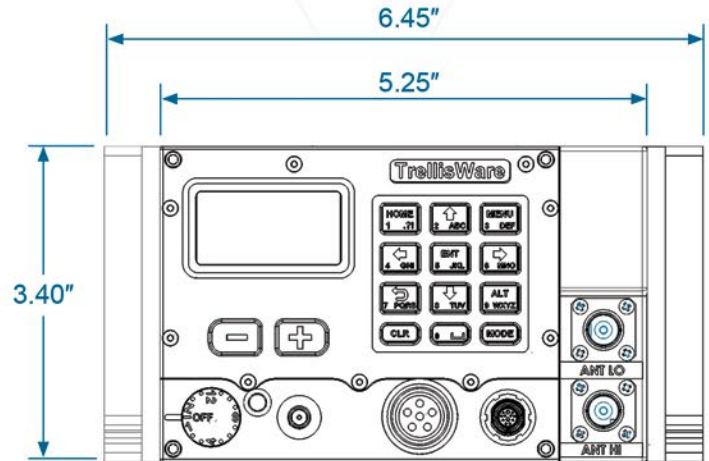- Shares common accessories with the TW-900/950 handheld radio to maximize flexibility and save life cycle cost

SCAN ME

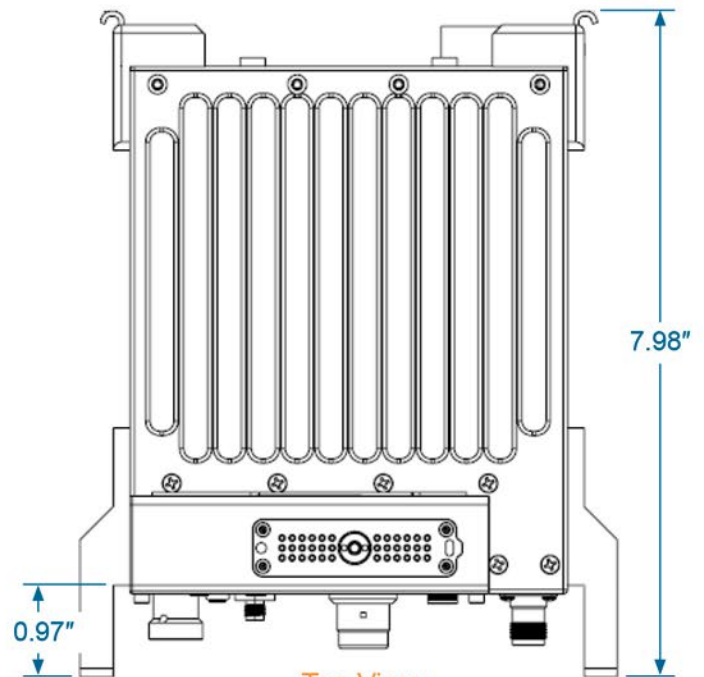**TRELLISWARE.COM**

TW-135

SPECIFICATIONS

Physical

Physical	
Overall Size	7.98 L x 6.45 W x 3.4 H in (202.69 x 163.83 x 86.36 mm)
(Without Handles)	7.46 L x 5.25 W x 3.4 H in (189.48 x 133.35 x 86.36 mm)
Weight (R/T only)	6.40 lbs (181.44 g)
Frequency Range	• LUHF: 225–450 MHz • U-UHF: 698–970 MHz • L/S Bands: 1250–2600 MHz
Configurable Bandwidth	1.2, 3.6, 10, 20, 40 MHz
Spectrum Pipelining Bandwidth	20 MHz and 40 MHz
Transmit Power	100mW, 2W, 5W, 10W, 20W
Battery Life	8 hrs on a 8.7Ah Rechargeable Battery
Environmental	MIL-STD-810G
Operating Temperature Range	-20°C to +55°C (-4°F to +131°F)
Water Resistant	IP67
Connectors	• ODU Data/Audio, 6-Pin Audio, TNC RF, SMA GPS • 36-pin top connector
Audio Encoding	AMR 5.9, MELPe, AAC Audio
Video Encoding	SD and HD H.264
Waveform	TSM 6

Networking

Networking	
Network Coverage	• Mobile Ad Hoc Networking • Multi-hop – Up to 8 Hops • 800 Nodes in a Single RF Channel • Robust in Harsh RF Environments
Communication Services	• Simultaneous Voice, Data, PLI • Up to 32 Voice Talk Groups • Built-in GPS chip AFAIK • IP Support – IPv4, IPv6; Unicast, Multicast, Broadcast; TCP, UDP
Security	• AES-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

Specifications subject to change without notice.

6.45"

5.25"

3.40"

Front View

7.98"

0.97"

Top View

When Nothing Else Works

T R E L L I S W A R E . C O M

To place an order, please contact your account manager.
For more information, email sales@trellisware.com

Please access the most recent digital version of this datasheet on the TrellisWare Customer Support Site (site registration required)