

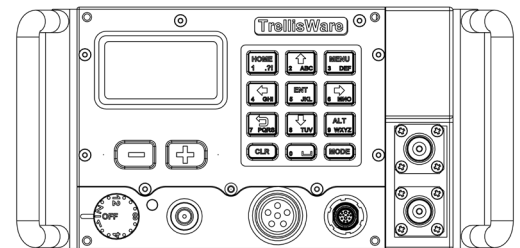


HIGH POWER NETWORKING

TW-135 TSM Shadow HPR (High Power Radio) is designed for expanding TSM™ network range. The radio provides the same networking capability as TSM Shadow handheld, but with 20 W amplified power in UHF and L/S-bands. The radio is built for both vehicular or man portable form factors.

RELIABLE IN HARSH CONDITIONS

The TSM waveform provides the only mobile ad-hoc networking (MANET) solution with field-proven, bleeding edge Barrage Relay™ technology. This innovative technology uses unique digital signal processing and cooperative combining techniques to take advantage of multipath reflections and relays in harsh RF environments to enable massive scalability and fast network adaptability.



www.trellisware.com
sales@trellisware.com
858.753.1600



TW-135 RADIO SPECS

Size	3.4" (H) x 5.25" (W) x 7.26" (D)
Weight (R/T only)	6.4 lbs
Frequency Range	L-UHF: 225–450 MHz U-UHF: 698–970 MHz, L/S Bands: 1250–2600 MHz
Configurable Bandwidth	1.2, 4, 10, 20, 40 MHz
Transmit Power	20 W
Environmental	MIL-STD-810G
Operating Temperature Range	-20C–55C
Water Resistant	IP67
Connectors	ODU Data/Audio, 6-Pin Audio, TNC RF, SMA GPS, 36-pin top connector
Data Rate	16 Mbps IP Throughput
Audio Encoding	AMR 5.9, MELPe, AAC Audio
Video Encoding	SD and HD H.264
Waveform	TSM Release 6

TSM NETWORKING SPECS

Network Coverage	<ul style="list-style-type: none"> • Mobile Ad-hoc Networking • Multi-hop – Up to 8 Hops • 250+ Nodes in a Single RF Channel • Robust in Harsh RF Environments
Communication Services	<ul style="list-style-type: none"> • Simultaneous Voice, Data, PLI • Up to 16 Voice Channels • Up to 32 Voice Talk Groups • Built-in GPS • IP Support – IPv4, IPv6; Unicast, Multicast, Broadcast; TCP, UDP
Security	<ul style="list-style-type: none"> • AES-256
Application Support	<ul style="list-style-type: none"> • Built-in Web Applications • Over the Air Remote Control • APIs for 3rd Party Integration • PLI with CoT, KML, and JSON • Integration with Android™

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