TWC-900/950 TSM SHADOW® RADIO





WIDE FREQUENCY RANGE, HIGH THROUGHPUT

TrellisWare's TSM Shadow® radio features unparalleled performance powered by the TSMTM waveform. The radio provides an expanded frequency range, higher throughputs for streaming multiple HD videos, and is interoperable with devices that run TSM-XTM waveform functionality. The TSM Shadow radio is redefining the edge of tactical networking.

RELIABLE IN THE HARSHEST CONDITIONS

The TSM™ waveform provides the only Mobile Ad-Hoc Networking (MANET) solution with field-proven, cutting 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. The end result is massive scalability and fast network adaptability.





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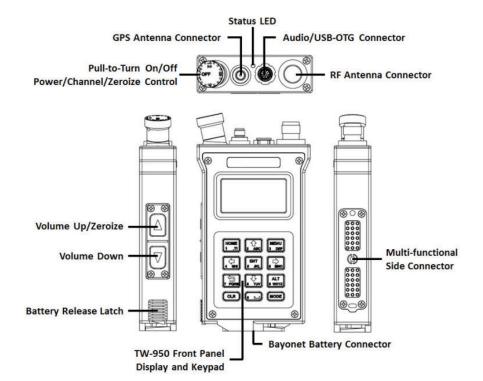


TRELLISWARE™ RADIO KEY FEATURES

- UP TO 16 MBPS
- UP TO 32 SIMULTANEOUS TALK GROUPS
- SD AND HD H.264 VIDEO ENCODING
- UHF, L/S-BAND IN A SINGLE RADIO

TSM™ NETWORK BENEFITS

- INFRASTRUCTURE-LESS MANET
- HIGH-SPEED WIRELESS IP NETWORKING
- SELF-FORMING, SELF-HEALING
- SCALABLE TO 400+ NODES
- FAST, SEAMLESS NETWORK JOIN/MERGE
- INSTANT ADAPTATION TO NETWORK TOPOLOGY CHANGES





TWC-900/950 TSM SHADOW® RADIO



TWC-900/950 TSM SHADOW® SPECS

SIZE

4.54" (H) X 2.76" (W) X 0.90" (D)

WEIGHT (R/T ONLY)

11.3 OZ

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

100 MW, 250 MW, 500 MW, 1 W, 2 W AMR 5.9, MELPE, AAC AUDIO

BATTERY LIFE

8 HOURS WITH 32 WH RECHARGEABLE BATTERY

ENVIRONMENTAL

MIL-STD-810G

OPERATING

TEMPERATURE RANGE

-20C / -55C

WATER RESISTANT

IP68

CONNECTORS

ODU DATA/AUDIO, TNC RF, SMA GPS

36-PIN SIDE CONNECTOR

DATA RATE

PT. TO PT., UP TO 16 MBPS (1-HOP)

AUDIO ENCODING

VIDEO ENCODING

SD AND HD H.264

WAVEFRONT

TSM RELEASE 6

COMMON TSM NETWORKING

NETWORK COVERAGE

- · MOBILE AD-HOC NETWORKING
- · MULTI-HOP UP TO 8 HOPS
- · CUSTOMER VALIDATED TO 400+ NODES IN A SINGLE RF CHANNEL
- · ROBUST IN HARSH RF ENVIRONMENTS

COMMUNICATION SERVICES

- · SIMULTANEOUS VOICE, VIDEO, DATA, AND PLI
- UP TO 16 DEDICATED VOICE CHANNELS
- UP TO 32 SIMULTANEOUS VOICE TALK **GROUPS**
- · BUILT-IN GPS
- · IP SUPPORT IPV4, IPV6; UNICAST, MULTCAST, BROADCAST: TCP. UDP

SECURITY APPLICATION SUPPORT

- · AES-256
- · BUILT-IN WEB APPLICATIONS
- · OVER THE AIR REMOTE CONTROL
- · APIS FOR 3RD PARTY INTEGRATION
- · PLI WITH COT. KML. AND JSON
- · INTEGRATION WITH ANDROID™

APPLICATIONS

- · HD VIDEO IN HIGHLY DYNAMIC, MOBILE OPERATIONS
- · FLEXIBLE BANDWIDTH SUPPORTING A BROAD RANGE OF NETWORK CAPACITIES AND SPECTRUM AVAILABILITY WORLDWIDE
- · VERSATILE WAVEFORM TO SUPPORT GROUND COMMUNICATION AND GROUND-TO-AIR COMMUNICATIONS
- · SUPPORTS INDOOR, SHIPBOARD, DEEP URBAN, TUNNEL, AND OTHER CHALLENGING ENVIRONMENTS
- · ROBUST RF CONNECTIVITY IN HIGHLY DYNAMIC ENVIRONMENTS
- · INTEROPERABLE WITH OTHER TSM NETWORKING PRODUCTS

