

TWC-135 TSM SHADOW™ HPR



01 HIGH POWER NETWORKING

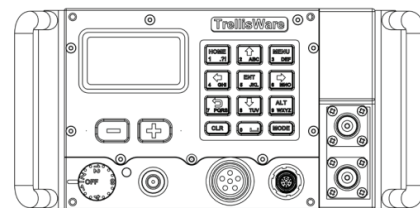
TWC-135 TSM Shadow HPR (High Power Radio) is designed for expanding TSM™ network range. The radio provides the same networking capability as TSM Shadow handheld, but with 20 W amplified power in UHF and L/S-bands. The radio is built for both vehicular or man portable form factors.

02 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.



TWC-135 TSM SHADOW™ HPR



TWC-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

- MOBILE AD-HOC NETWORKING
- MULTI-HOP – UP TO 8 HOPS
- 250+ NODES IN A SINGLE RF CHANNEL
- ROBUST IN HARSH RF ENVIRONMENTS

COMMUNICATION SERVICES

- 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

- 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™