TrellisWare TW-850-01 TSM Ghost

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Small Form Factor Radio

TW-850-01 TSM Ghost is an affordable, compact, and fully operational radio that provides real-time, continuous Position Location Information (PLI). TSM Ghost is part of TrellisWare's next generation of products, designed to track personnel and assets, and to provide situational awareness, especially against friendly-fire.

TSM Ghost easily connects to tablets or laptops via a Micro USB, effectively monitors ground operations, and it mounts onto robotic or unmanned systems (UAVs). Each TSM Ghost in the network aggregates all position locations from other radios in the network, and provides GPS location updates every 2-3 seconds. TSM Ghost supports low visibility operations with a built-in battery and concealed buttons for basic operation. It is a small size (3x5" x 2.4 x 0.8") and weighs only 6.4 oz.

TSM Ghost is powered with TrellisWare's robust and infrastructure-less TSM™ and operates with any TSM tactical radio. It acts as a relay for voice, data, video, and PLI traffic for all radios on the network, extending the range and reliability of the network.

TW-850-01 TSM Ghost Features

- ☑ Tactical tracking device for real-time continuous PLI
- ☑ Low profile network relay with GPS and RF antenna connectors
- ☑ Integrated battery rechargeable by standard USB charger

TSM Benefits

- ☑ Infrastructure-less MANET
- ☑ High-speed wireless IP networking
- ☑ Self-forming, self-healing
- ☑ Scalable to 200+ nodes
- ☑ Robust in harsh environments
- ☑ Non-routing network

Built-In Power Supply

With its extremely low Size, Weight, and Power (SWaP), TSM Ghost supports low visibility missions. It includes concealed buttons and a built-in battery for power, and if you need more, operating times can be extended via a standard USB charger
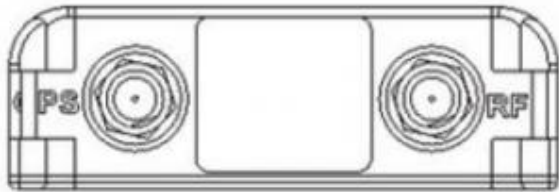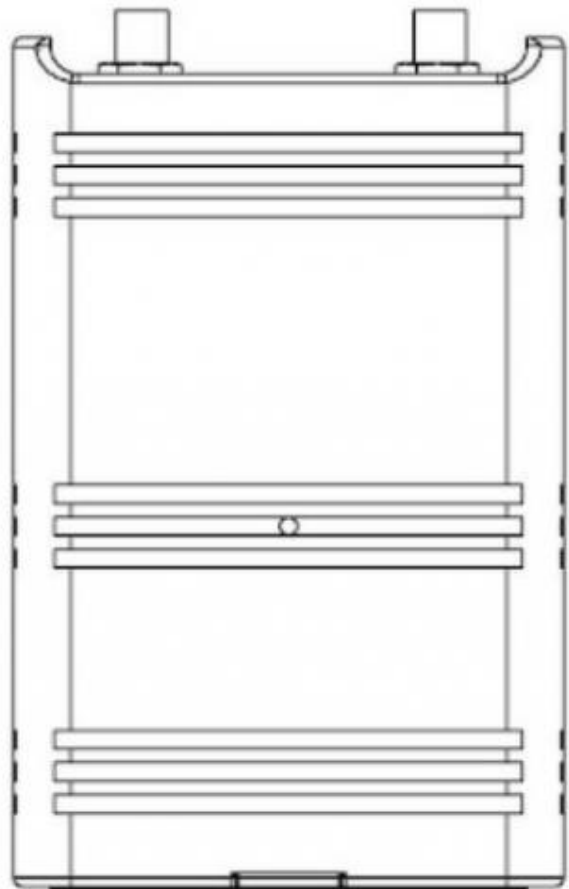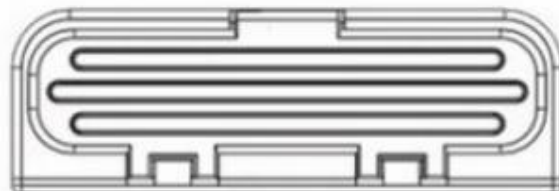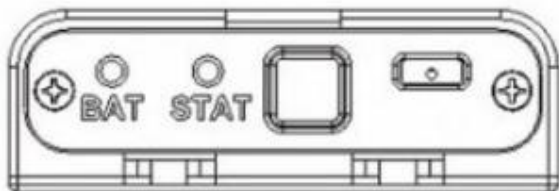
Specifications

Size	3.5" (H) x 2.4" (W) x 0.8" (D)
Weight (R/T only)	6.4 oz
Frequency Range	1775–1815 MHz, 2200-2250 MHz
Occupied Bandwidth	20 MHz, Configurable to 4 MHz
Transmit Power	2 W
Battery Life	9 Hours Tracking with Built-in Battery
Environmental	MIL-STD-810G
Water Resistant	2 M Immersion
Operating Temperature	-20°C to +55°C
Connectors	Micro USB, RF and GPS Antennas
Data Rate	8 Mbps IP Throughput per Channel
Net Entry Time	< 1 Second
Waveform	TSM
Routing	Barrage Relay™ networking
Modulation	Constant Envelope

Top

Bottom

TW-850-01
TSM Ghost

Common TSM Networking

Network Coverage	Mobile Ad-hoc Networking (MANET)
	Range – 26 Mile LOS per Network Hop
	Multi-hop – Up to 8 Hops
	200+ Nodes in a Single RF Channel
	Robust in Harsh RF Environments
Communication Services	Simultaneous Data and PLI
	Built-in GPS
	IP Support – IPv4, IPv6; Unicast, Multicast, Broadcast; TCP, UDP
Security	AES-256
	OTAR, OTAZ
	Remote Disable
	RSA-2048
	SHA-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

☑ Position location information for tactical tracking and monitoring

☑ Affordable device with low size, weight, and power

☑ Provides secure wireless datalinks for RECCE operations

☑ Increases network range in unmanned systems

☑ Operates with other TSM Products

TrellisWare - TW-850-01 TSM Ghost - Etremely Small TSM Radio