



Simplify Your TSM Integration

TW-880 TSM GHOST EMBEDDED MODULE

The TW-880 TSM Ghost Embedded Module was designed from the ground up to better meet communication systems integration requirements across a wide range of markets. The module provides interfaces and capabilities that integrators need in one of the industry's lowest size, weight, and power (SWaP) configurations.

KEY FEATURES

- Smallest, lightest, and most capable product for plug and play integration of the TrellisWare TSM waveform.
- Requires minimal integration effort, significantly reducing non-recurring engineering (NRE) costs and time to market.
- Includes Ethernet, Serial, and USB data interfaces to support transmission of command and control (C2) communications, status, and payload data over the TSM network.
- Supports operation across the 225-450 MHz, 698-970 MHz, and 1250-2600 MHz frequency bands to provide integrators and operators radio frequency (RF) spectrum flexibility without the need to swap radio modules.

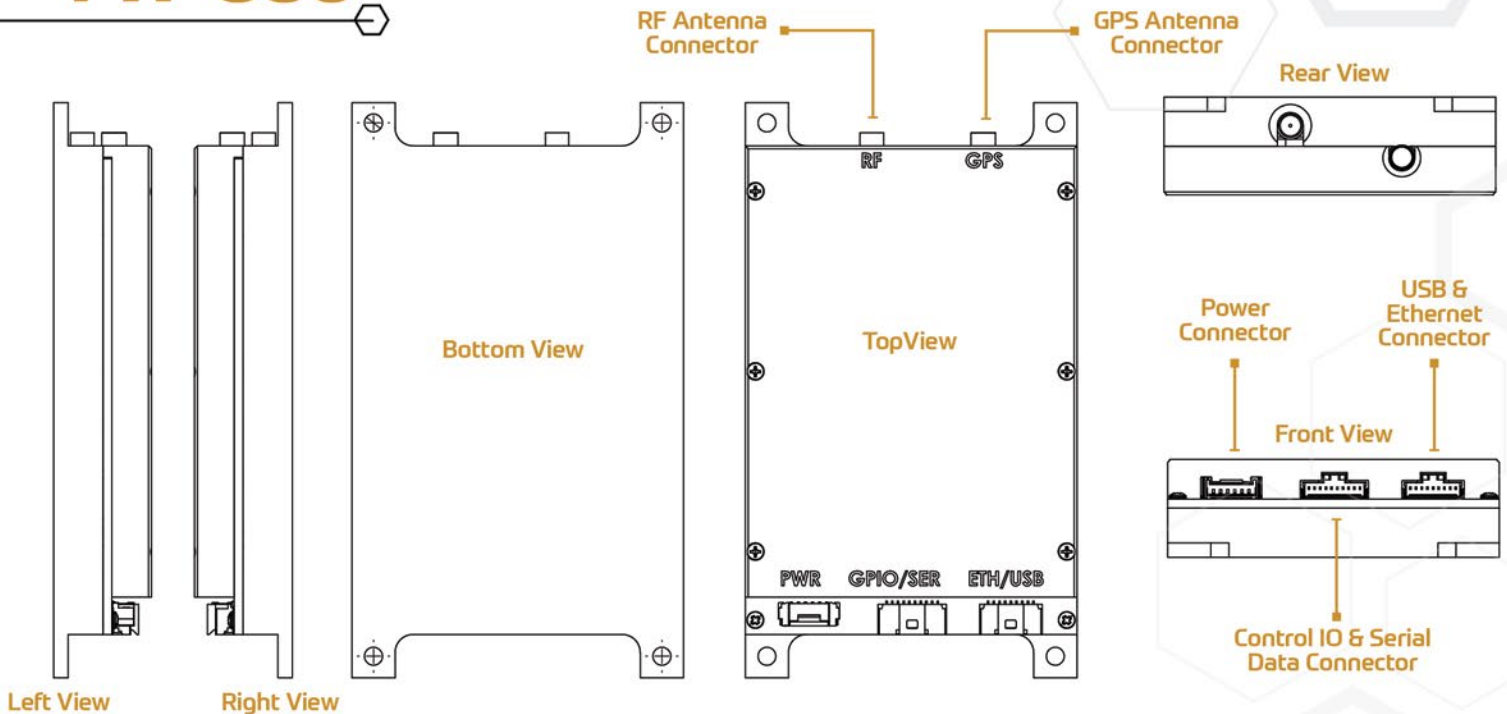


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TW-880



SPECIFICATIONS

Physical	
Overall Size	3.99 L x 2.30 W x 0.68 H in (101.34 x 58.42 x 17.27 mm)
Weight	4.6 oz (130.41 g)
Frequency Range	<ul style="list-style-type: none"> • L-UHF: 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	User-selectable spacing with 20 or 40MHz occupied bandwidth
Transmit Power	100 mW, 250 mW, 500 mW, 1 W, 2 W
Input Power	8 to 20 VDC
Interfaces	<ul style="list-style-type: none"> • USB On-the-Go • Ethernet • Control Status • Serial Data • RF SMP, GPS SMP
Data Rate	Pt. to Pt., up to 32 Mbps (1-hop)
Security	<ul style="list-style-type: none"> • Built-in AES-256 COMSEC • TRANSEC
Waveform	TSM Release 6
Environmental	MIL-STD-810G Shock & Vibration
Ingress Protection	IP41
Operating Temperature Range	-20°C to +55°C (-4°F to +131°F)

Networking	
Network Coverage	<ul style="list-style-type: none"> • Mobile Ad Hoc Networking • Multi-hop – Up to 8 Hops • 400+ Nodes in a Single RF Channel • Robust in Harsh RF Environments
Communication Services	<ul style="list-style-type: none"> • Simultaneous Voice, Data, and PLI • Relay node for all TSM services (Voice, Data, PLI) • Up to 32 Voice Talk Groups • Built-in GPS chip AFAIK • 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™ applications

Specifications subject to change without notice.

When Nothing Else Works

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