



# 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.

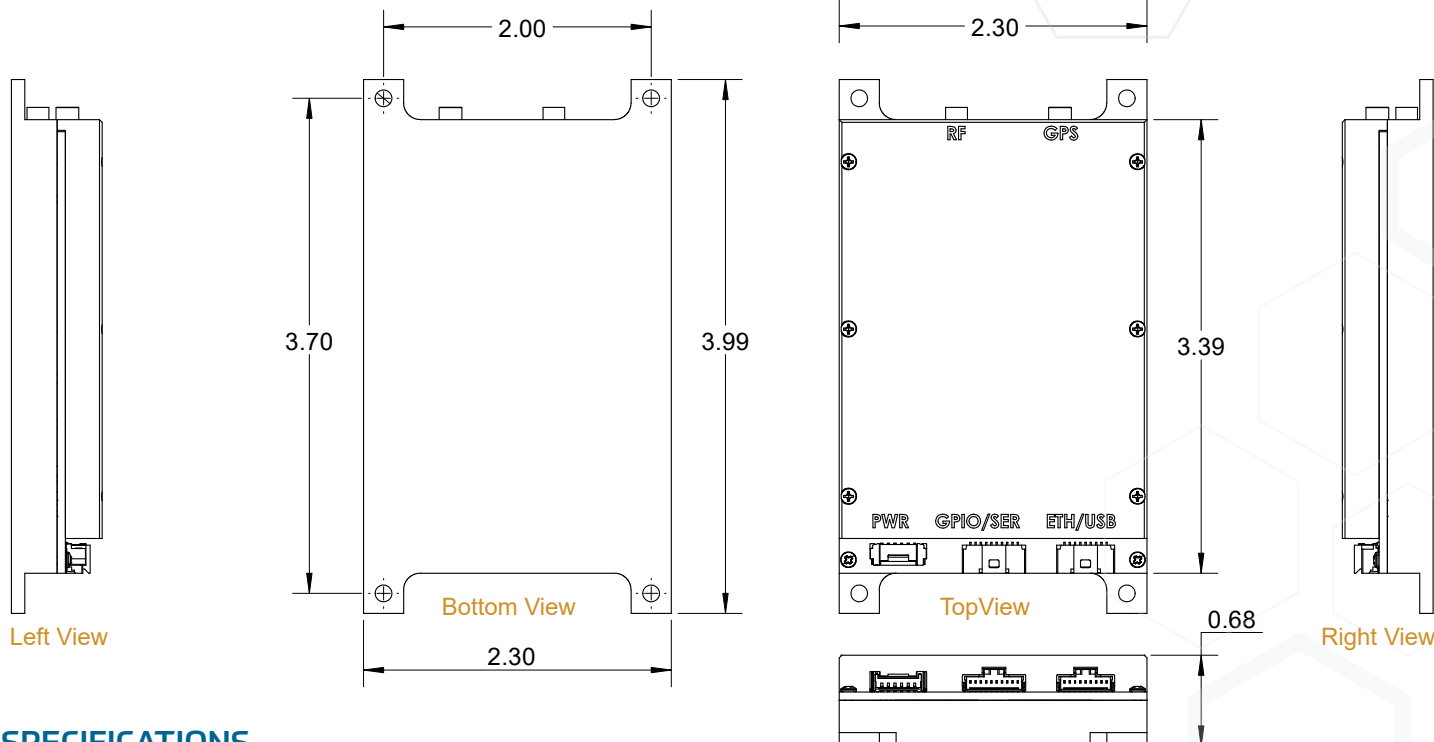


**SCAN ME**





# 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"><li>• L-UHF: 225–450 MHz</li><li>• U-UHF: 698–970 MHz</li><li>• L/S Bands: 1250–2600 MHz</li></ul>
Configurable Bandwidth	1.2, 3.6, 10, 20, 40 MHz
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"><li>• USB On-the-Go</li><li>• Ethernet</li><li>• Control Status</li><li>• Serial Data</li><li>• RS-SMP</li><li>• GPS SMA</li></ul>
Data Rate	Pt. to Pt., up to 16 Mbps (1-hop)
Security	<ul style="list-style-type: none"><li>• Built-in AES-256 COMSEC</li><li>• TRANSEC</li></ul>
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"><li>• Mobile Ad Hoc Networking</li><li>• Multi-hop – Up to 8 Hops</li><li>• 400+ Nodes in a Single RF Channel</li><li>• Robust in Harsh RF Environments</li></ul>
Communication Services	<ul style="list-style-type: none"><li>• Simultaneous Voice, Data, and PLI</li><li>• Relay node for all TSM services (Voice, Data, PLI)</li><li>• Up to 32 Voice Talk Groups</li><li>• Built-in GPS</li><li>• IP Support – IPv4, IPv6; Unicast, Multicast, Broadcast; TCP, UDP</li></ul>
Security	<ul style="list-style-type: none"><li>• AES-256</li></ul>
Application Support	<ul style="list-style-type: none"><li>• Built-in Web Applications</li><li>• Over the Air Remote Control</li><li>• APIs for 3<sup>rd</sup> Party Integration</li><li>• PLI with CoT, KML, and JSON</li><li>• Integration with Android™ applications</li></ul>

Specifications subject to change without notice.

— **When Nothing Else Works** —

T R E L L I S W A R E . C O M

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