



# 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.

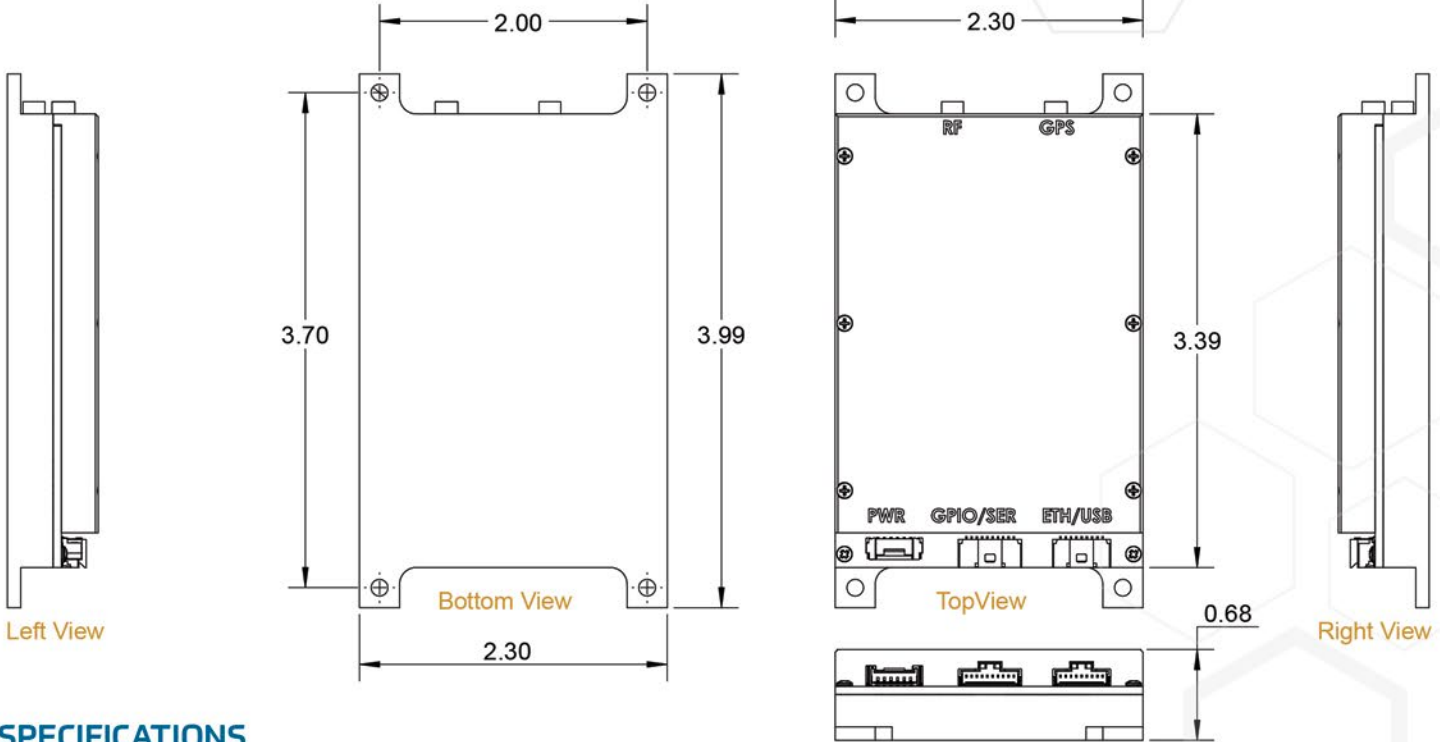


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# TW-880



## SPECIFICATIONS

Physical	
<b>Overall Size</b>	3.99 L x 2.30 W x 0.68 H in (101.34 x 58.42 x 17.27 mm)
<b>Weight</b>	4.6 oz (130.41 g)
<b>Frequency Range</b>	<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>
<b>Configurable Bandwidth</b>	1.2, 3.6, 10, 20, 40 MHz
<b>Transmit Power</b>	100 mW, 250 mW, 500 mW, 1 W, 2 W
<b>Input Power</b>	8 to 20 VDC
<b>Interfaces</b>	<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>
<b>Data Rate</b>	Pt. to Pt., up to 32 Mbps (1-hop)
<b>Security</b>	<ul style="list-style-type: none"> <li>• Built-in AES-256 COMSEC</li> <li>• TRANSEC</li> </ul>
<b>Waveform</b>	TSM Release 6
<b>Environmental</b>	MIL-STD-810G Shock & Vibration
<b>Ingress Protection</b>	IP41
<b>Operating Temperature Range</b>	-20°C to +55°C (-4°F to +131°F)

Networking	
<b>Network Coverage</b>	<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>
<b>Communication Services</b>	<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>
<b>Security</b>	<ul style="list-style-type: none"> <li>• AES-256</li> </ul>
<b>Application Support</b>	<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**

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