



## DESIGNED FOR NEXT-GENERATION SOLDIER SYSTEMS, PUBLIC SAFETY, AND FIRST RESPONDER REQUIREMENTS

Powered by the TrellisWare® TSM™ Mobile Ad-hoc Networking (MANET) waveform, the TW-860 TSM Spirit™ radio represents the most cost-effective TSM enabled radio available, making it easier to expand tactical networks to everyone who needs to be connected.

The TSM Spirit radio offers industry leading size, weight, and power (SWaP) among body-worn mesh networking radios, delivering voice, data and real-time positional reporting. The radio is designed to be integrated with wearable power systems and body-worn antennas to further complement its slim, low profile form factor. The TSM Spirit radio provides spectrum support covering 225-450 MHz, 698-970 MHz, and 1250-2600 MHz, all in a single software defined radio (SDR).

Interoperable with all TSM enabled radios, the TW-860 TSM Spirit radio supports a true flat network with massive scalability in a single radio frequency (RF) channel, while still delivering rapid position location information (PLI) updates for every radio.



**The TW-860 is offered in three color options**

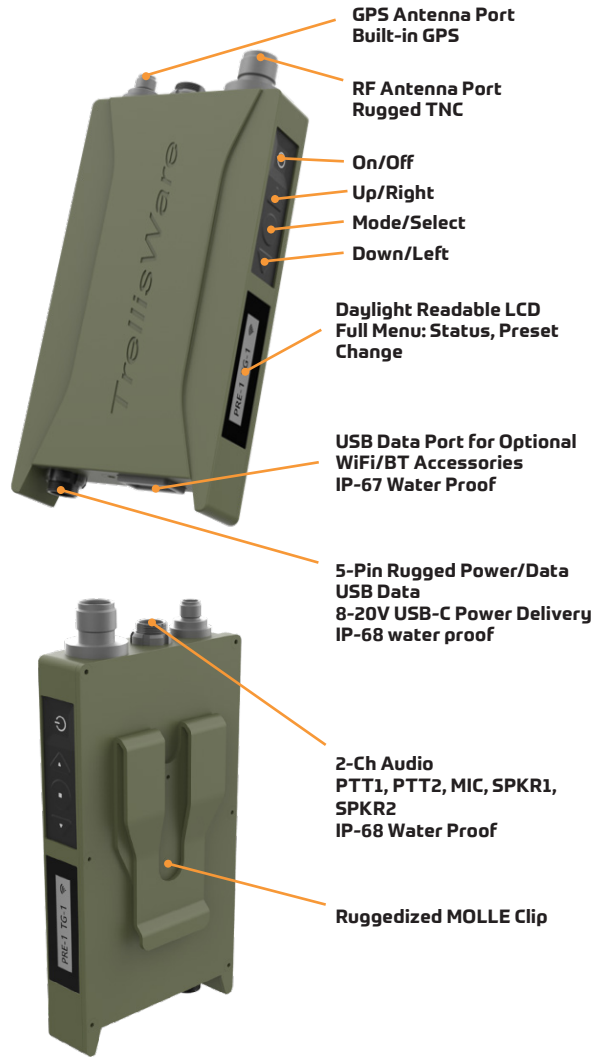
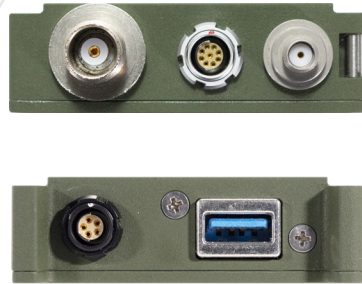
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DS-860-001

# TW-860



## TSM SPIRIT™ RADIO SPECIFICATIONS

<b>Size</b>	<ul style="list-style-type: none"> <li>• 4.7" H X 2.5" W x 0.74" D without connectors</li> <li>• Volume 8.35 in<sup>3</sup> displacement</li> </ul>
<b>Weight (R/T only)</b>	<ul style="list-style-type: none"> <li>• 7.5oz</li> </ul>
<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>	<ul style="list-style-type: none"> <li>• 1.2, 3.6, 10, 20, 40 MHz</li> </ul>
<b>Transmit Power</b>	<ul style="list-style-type: none"> <li>• 100 mW, 250 mW, 500 mW, 1 W, 2 W</li> </ul>
<b>Environmental</b>	<ul style="list-style-type: none"> <li>• MIL-STD-810H</li> </ul>
<b>Operating Temperature Range</b>	<ul style="list-style-type: none"> <li>• -20C to +55C</li> </ul>
<b>Water Resistant</b>	<ul style="list-style-type: none"> <li>• IP67</li> </ul>
<b>RF Connector</b>	<ul style="list-style-type: none"> <li>• TNC</li> </ul>
<b>GPS Connector</b>	<ul style="list-style-type: none"> <li>• SMA</li> </ul>
<b>Audio Connector</b>	<ul style="list-style-type: none"> <li>• 9-pin connector – supports dual push-to-talk (PTT) and two simultaneous talkgroups</li> </ul>
<b>Power/Data Connector</b>	<ul style="list-style-type: none"> <li>• 5-pin connector – supports USB-C Power Delivery and Data</li> </ul>
<b>Expansion Connector</b>	<ul style="list-style-type: none"> <li>• USB-A connector – supports data, programming, and accessories</li> </ul>
<b>Power Input</b>	<ul style="list-style-type: none"> <li>• 8 V to 20 V, 3A max</li> </ul>
<b>Data Rate</b>	<ul style="list-style-type: none"> <li>• Pt. to Pt., up to 16 Mbps (1-hop)</li> </ul>
<b>Waveform</b>	<ul style="list-style-type: none"> <li>• TSM Release 6</li> </ul>



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