



TrellisWare's TW Spirit 860 is designed for next-generation soldier systems, public safety, and first responder requirements. Interoperable with all TrellisWare radios, the TW Spirit 860 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.

KEY FEATURES

- Designed specifically for body-wearable applications with industry-leading size, weight, and power (SWaP) among body-worn mesh networking radios
 - Single data and power connector that supports Internet Protocol (IP) data and USB-C power delivery to support soldier hub
 devices and conformal wearable batteries
 - Ideal for use with body-worn wearable antennas, only requiring one antenna to achieve reliable performance (versus MIMO radios that require multiple antennas)
- Seamless data connectivity for all body-worn end-user equipment
 - · Expansion port for Wi-Fi wireless connectivity for audio and data
- Full voice capability with dual push-to-talk (PTT) and up to 32 selectable talk groups
- FCC/IC-certified configuration available

TRELLISWARE WAVEFORMS

TrellisWare's Barrage Relay technology provides proven network scalability and performance without compromising quality of service. The TSM waveform is a highly scalable and robust MANET waveform that supports over 800 nodes with simultaneous voice, data, video, and PLI operating in a single radio frequency channel. The optional Katana waveform combines resilient narrowband fast frequency hopping with tactical MANET, operating in highly contested radio frequency (RF) communication environments.









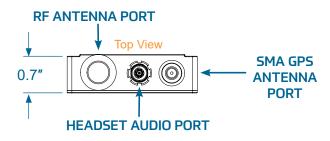


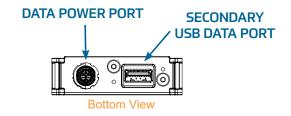




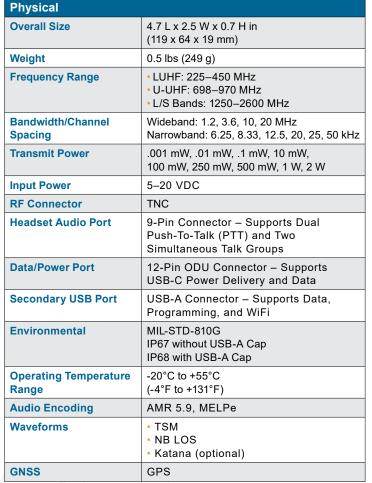


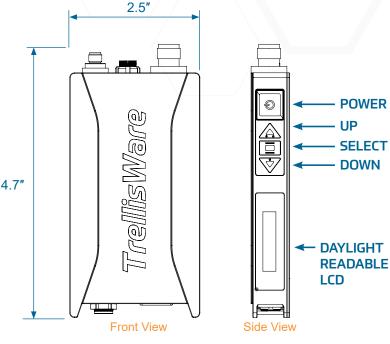
COMPONENTS





SPECIFICATIONS





Networking Capabilities	
Network Coverage	 Barrage Relay Multi-hop – Up to 8 Hops 800 Nodes in a Single RF Channel Robust in Harsh RF Environments Up to 32 Mbps
Communication Services	 Simultaneous Voice, Data, and PLI IP Support – IPv4, IPv6; Unicast, Multicast, Broadcast; TCP, UDP
Security	• AES-256 (FIPS 197)
Application Support	Built-in Web Applications Over the Air Remote Control TW Connect ATAK support

Specifications subject to change without notice.

Note: For military and public safety/security use. Please contact TrellisWare Customer Support at support@trellisware.com for FCC/IC radio options, or EU and UK declarations.

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When Nothing Else Works —



To place an order, please contact your account manager. For more information, email sales@trellisware.com

Please access the most recent digital version of this datasheet on the TrellisWare Customer Support Site (site registration required).

This TrellisWare product is under the jurisdiction of the Department of Commerce and is subject to Export Administration Regulations (EAR)

^{*}Expanded temperature range test results available.