



Simplify Your System Integration

Archangel Argonaut™ Sentry AI Camera image courtesy of Archangel Imaging Ltd



TW GHOST 880 EMBEDDED MODULE

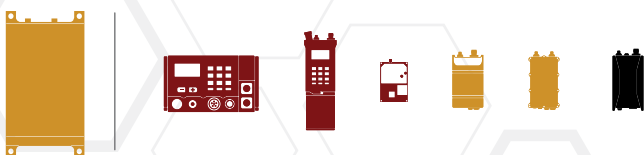
The TW Ghost 880 Embedded Module was designed from the ground up to better meet communication systems integration requirements across a wide range of markets. The module provides interfaces and capabilities that integrators need in one of the industry's lowest size, weight, and power (SWaP) configurations.

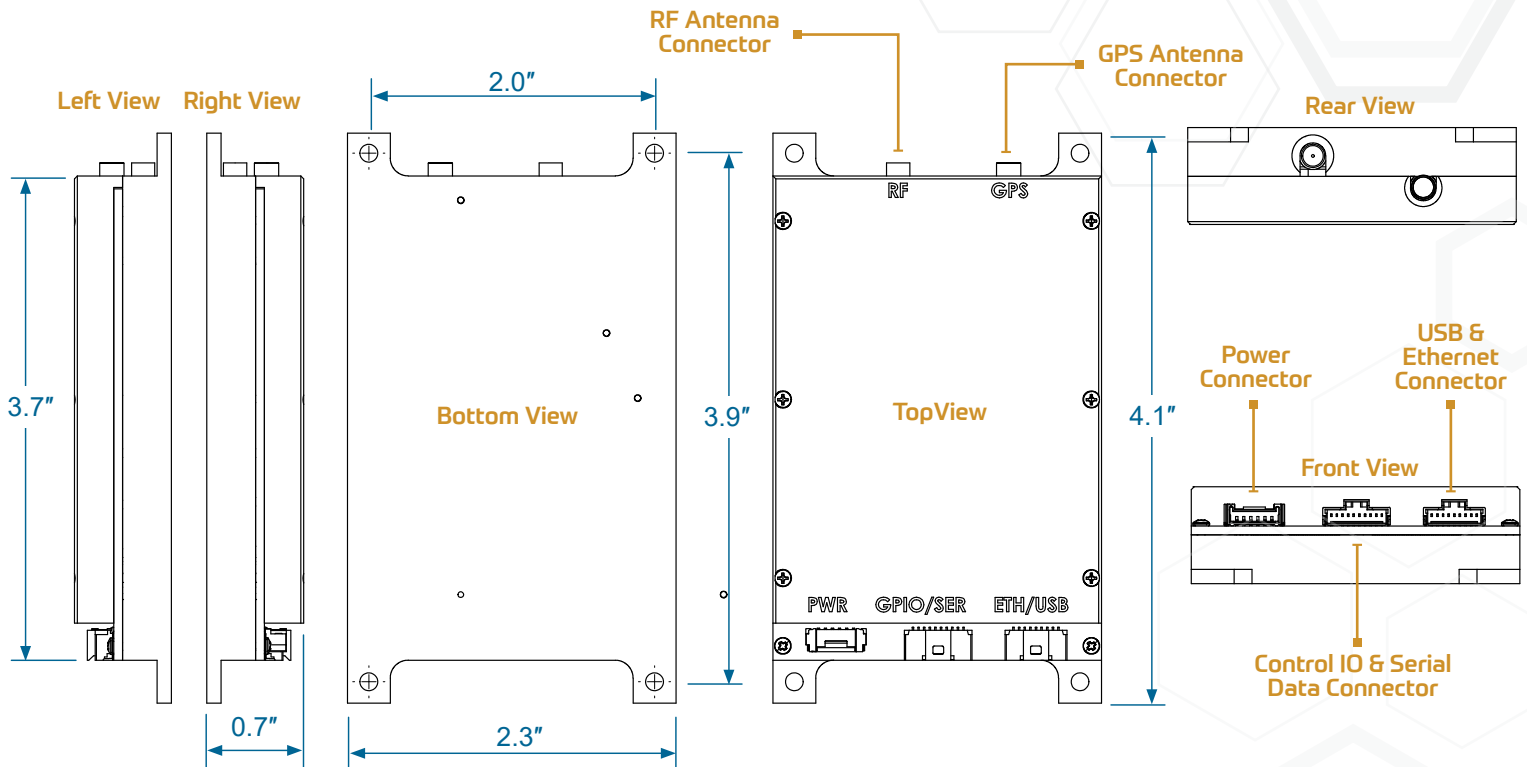
KEY FEATURES

- Smallest, lightest, and most capable product for plug-and-play integration of TrellisWare waveforms.
- Requires minimal integration effort, significantly reducing non-recurring engineering 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 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.

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.





SPECIFICATIONS

Physical	
Overall Size	4.1 L x 2.3 W x 0.7 H in (101 x 58 x 17 mm)
Weight	0.3 lbs (130 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
Bandwidth/Channel Spacing	Wideband: 1.2, 3.6, 10, 20 MHz Narrowband: 6.25, 8.33, 12.5, 20, 25, 50 kHz
Transmit Power	.001 mW, .01 mW, .1 mW, 10 mW, 100 mW, 250 mW, 500 mW, 1 W, 2 W
Input Power	8-20 VDC
Interfaces	<ul style="list-style-type: none">• USB On-the-Go• Ethernet• Control Status• Serial Data• RF SMP, GPS SMP
Environmental	MIL-STD-810G, IP41
Operating Temperature Range	-20°C to +55°C (-4°F to +131°F)
Waveforms	<ul style="list-style-type: none">• TSM• NB LOS• Katana (optional)
GNSS	GPS

Networking Capabilities	
Network Coverage	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Simultaneous Voice, Data, and PLI• IP Support – IPv4, IPv6; Unicast, Multicast, Broadcast; TCP, UDP
Security	<ul style="list-style-type: none">• AES-256 (FIPS 197)
Application Support	<ul style="list-style-type: none">• Built-in Web Applications• Over the Air Remote Control• TW Connect• ATAK support

Specifications subject to change without notice.

When Nothing Else Works

TRELLISWARE.COM

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)