Tactical Internet Gateway (TIG) Mini TW

Product Description

The TIG Mini is a beyond line-of-sight aggregator for multi-domain operations, enabling the extension and bridging of geographically dispersed networks at the tactical edge. Now available with Trellisware's Barrage Relay technology and TSM Waveform integrated in one low SWaP solution to easily scale and flatten disparate networks of sensors, unmanned systems, and communications. The TIG enables on-the-move-automated PACE functionality across multiple bearer channels, so your battlefield network maintains a resilient connection from the edge for increased situational awareness and decision dominance



TIG Mini Features

- Designed to operate closed and on-the-move
- SF-VPN Encryption (AES-256-GCM)
- NIST FIPS 140-3 (#4763)
- WAN Smoothing & Traffic Steering
- Hot failover between all active WAN connections
- Bonding & Aggregation of available WAN links
- Bandwidth prioritization to limit expensive data traffic
- L2 Bridge (Multicast / CoT / PLI / TAK)
- Integrated commercial cellular modems, Wi-Fi and GPS
- NettWarrior compatible power (TIG Mini)
- Integrates easily with Type-1 Encryption or CSfC approved devices
- First Net certified

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Tactical Internet Gateway

BRYODYN Technologies

Embedded TW-880 Specifications

- 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 integrated TSM waveform in the TIG Mini can be utilized as a secure Red/Black Gateway for Beyond Line-of-Sight extension of Harris AN/PRC-163 and AN.PRC-167 networks
- The optional Katana waveform combines resilient narrowband fast frequency hopping with tactical MSNET, operating in highly contested radio frequency (RF) communication environments

TrellisWare Specifications

Frequency Range	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
Waveforms	TSM NB LOS Katana (optional)

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

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