



## BRIDGING NETWORKS WITH AMPLIFIED POWER

TW-130 WildCat II is designed for tactical communications that need high power, and extended network range. With its dual channel capability, WildCat II supports long range transmissions as a backhaul with its built-in High Power Amplifiers (HPA) for 4x power output, and it also acts as a gateway between channels to cross-connect multiple TSM™ networks together.

WildCat II delivers power and flexibility for ground based vehicles or man-packs, especially for challenging RF environments, and it allows for combining networks together that would otherwise be isolated. It offers 12 independent cellular quality voice channels while simultaneously supporting multiple video streams, data, and Position Location Information (PLI).

Expect robust and reliable high-speed wireless IP networking performance to ensure wide coverage, rapid deployment, and network scalability for any situation with TSM's advanced signal processing and cooperative communications technology.

### TW-130 WILDCAT II FEATURES

- Vehicle mount with 8 W transmit power
- Multi-network gateway between channels
- Monitors dual independent networks



### TSM BENEFITS

- Infrastructure-less MANET
- High-speed wireless IP networking
- Self-forming, self-healing
- Scalable to 200+ nodes
- Robust in harsh environments
- Non-routing network



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## TW-130 WildCat II™ SPECIFICATIONS

<b>Size</b>	2" (H) x 5" (W) x 5.5" (D)
<b>Weight (R/T only)</b>	55 oz
<b>Frequency Range</b>	1775–1815 MHz, 2200–2250 MHz
<b>Occupied Bandwidth</b>	20 MHz, Configurable to 4 MHz
<b>Transmit Power</b>	8 W Per Channel
<b>Input Power</b>	9–30 V DC
<b>Environmental</b>	MIL-STD-810G
<b>Water Resistant</b>	Splash Proof
<b>Connectors</b>	24-pin Multi-function, 6-pin Audio, TNC RF Antenna, SMA GPS Antenna
<b>Data Rate</b>	8 Mbps IP Throughput per Channel
<b>Audio Encoding</b>	AMR 5.9 or MELPe
<b>Audio Latency</b>	3 Hop < 275 ms; 8 Hop < 400 ms
<b>Net Entry Time</b>	< 1 Second
<b>Waveform</b>	TSM
<b>Routing</b>	Barrage Relay™ networking
<b>Modulation</b>	Constant Envelope

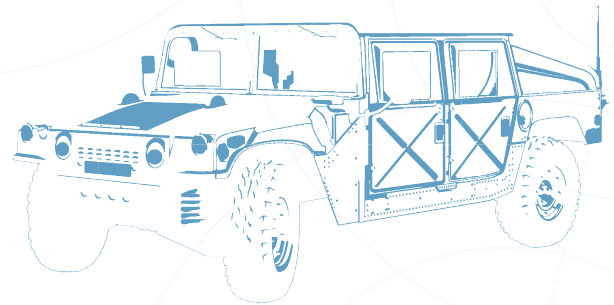
## COMMON TSM NETWORKING

<b>Network Coverage</b>	<ul style="list-style-type: none"> <li>• Mobile Ad-hoc Networking (MANET)</li> <li>• Range – 26 Mile LOS per Network Hop</li> <li>• Multi-hop – Up to 8 Hops</li> <li>• 200+ 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, PLI</li> <li>• 12+ Cellular Quality Voice Channels</li> <li>• Up to 12 Real-time Video Streams</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> <li>• OTAR, OTAZ</li> <li>• Remote Disable</li> <li>• RSA-2048</li> <li>• SHA-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™</li> </ul>

Android™ is a trademark of Google Inc.

## APPLICATIONS

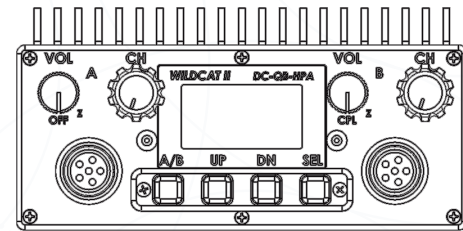
- Tactical COMMS for ground based vehicles
- Bridges multiple networks together between channels
- Provides long range transmissions as a backhaul in challenging environments
- Extends network range with high power
- Operates with other TSM Products



**TW-1140**  
1800/2200 Antenna



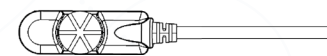
**TW-130**  
WildCat II



**TW-1212**  
Ethernet Pigtail  
Dongle



**TW-1222**  
Ethernet-USB  
Combo Dongle



More accessories are available.

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