

RAVEN® 3G Network in a Box® (NIB)

Broadband Wireless Communications for the First Tactical Mile

Tecore's RAVEN® Platform delivers macro 3G wireless service for rapidly deployable communications to government and first responders. The RAVEN leverages a size-optimized all-IP based architecture, delivering the most compact, adaptable, and cost-effective rapid response tactical platform. The highly portable, mobile platform is small enough to qualify as carry-on luggage on most airlines.

Tecore has incorporated almost 30 years of industry leadership in scalable wireless systems into the design of the RAVEN architecture. It leverages the patented iCore portfolio of 3GPP compliant software-defined core network elements, available as a completely integrated core or as individual elements capable of supporting network scalability across multiple locations. The robust capability set, compact form factor, and cost effectiveness of the RAVEN enables a broad range of deployment scenarios for tactical deployment, emergency management, armed forces or peacekeeping missions, and mobile communications networks in transit. The RAVEN is delivered in a size-optimized package measures at approximately 2 cubic feet.

CAPABILITIES

The RAVEN system is capable of supporting UMTS and HSPA, and provides voice, text, and packet data services for local users as a standalone system or as part of a larger communications network. Multiple RAVEN platforms can be networked together to provide end users with ubiquitous access from site-to-site, as well as accessing international voice calling services, the Internet, and social media locally or through a centralized gateway.

FEATURES AND BENEFITS

- Remote long range operations
- Self-Organizing Network (SON)
- Backhaul via any IP connected source
- Operate as Secure Standalone, Integrated, or Mesh Network
- Full suite of voice services, text, and packet data services
- Integrated 3G and 4G backhaul and WiFi hotspot
- Connectivity with existing infrastructure
- Utilizes Tecore's patented iCore platform



RAVEN® Specifications

GENERAL

Available Technologies	UMTS and HSPA
Feature Capabilities	Voice Over IP (VOIP) Messaging Internet IP Data Self-Organizing Network (SON) Commercial Mobile Alert System (CMAS) Earthquake and Tsunami Warning Service (ETWS) View Live Camera Feed View Real-time Sensor Data GPS Location Capabilities Encrypted VPN Prepaid Service
3G Bands	UMTS – 1, 2, 3, 4, 5, 8
Wi-Fi	Single (2.4 or 5)
Simultaneous Active Users	Up to 64
Provisioned Users	Up to 10,000
Dimensions	21.2 x 16 x 10.6 in / 54 x 41 x 27 cm
Weight	60 lbs / 27Kg
Power Consumption	600-800W
Power Input Options	110/240VAC
Transmit Power	Up to 40W per port
Antenna Ports	N-Type; up to 2x2 MIMO
Color Options	Black, Green

Integrated Functional Capabilities	UMSC/MSC/VLR GGSN/SGSN HLR/HSS/AuC/AC/AAA SMSC/MMSC RNC, NodeB, eNodeB WiFi transceiver
Interface Capabilities	Integrated 3G/4G LTE WWAN/ WiFi Backhaul Standards-based 10/100/1000 Ethernet Standards-based SIP/VoIP/MAP
Wifi Band Capabilities	UMTS Bands – 1, 2, 3, 4, 5, 8 All bands Supported 802.11 2.4/5.8 A/B/G/N
RF Capabilities	Pico/Micro/Macro Integrated GPS
Optional Accessories	SIM Cards Handsets Antennas Ruggedized Laptop

