

LYNX™

Adaptable, Rapidly Deployable 4G LTE Networks Delivering Mission Critical Communications to the Tactical Edge

Tecore's LYNX™ provides a rapidly deployable, high speed, 4G LTE communications network to support Defense, Public Safety, and Security Force Operations. A fully integrated, self-contained, LTE Network in a Box® (NIB), the LYNX is an all-IP solution delivering a compact, adaptable, and cost effective end-to-end 4G LTE network.

Leveraging Tecore's 25 years of experience in engineering scalable wireless networks, the LYNX is designed to meet strict size, weight, and power (SWaP) requirements making it as flexible as it is capable. The LYNX platform includes an integrated EPC, eNodeB, radio, and processor capable of delivering high-speed voice, text, and packet data services to users operating anywhere in the world. As a standalone network, the LYNX can provide network coverage in rural and remote areas without any existing infrastructure. The LYNX can also integrate into existing customer networks, bringing secured, high speed 4G LTE network extension capabilities to tactical operations centers, forward operating bases, mobile and emergency response units. The LYNX with its robust capability set, compact form factor, and cost effectiveness addresses a broad range of application requirements for military, security, and public safety communications.



CAPABILITIES

The LYNX is able to support LTE and provide voice, text and packet data services for users as a standalone private network or while integrated as part of a larger communications network. The LYNX compact size, all-IP architecture, and fully integrated EPC and eNodeB make it adaptable to air, ground, or maritime operations. Its full feature capabilities, intuitive interface, and portable form factor are ideal for tactical, rapidly deployable, and first responder communication networks.

FEATURES AND BENEFITS

- ▶ Self-contained, secure, LTE Network-in-a-Box (NIB)
- ▶ Supports up to 64 Simultaneous Active Users
- ▶ Requires no existing infrastructure
- ▶ Operates as Secure Standalone or Integrated
- ▶ Integrate 4G LTE capabilities into existing networks
- ▶ Scalable to meet customer requirements
- ▶ Adaptable for Air, Ground, Maritime, Dismounted, and Network-On-The-Move Operations

FEATURE CAPABILITIES

Voice (VoLTE)
Voice Over IP (VoIP/SIP)
Messaging
Push - to - Talk (PTT)
Internet
IP Data
Self-Organizing Network (SON)
Multimedia Broadcast Multicast Service (eMBMS)
Commercial Mobile Alert System (CMAS)
Earthquake and Tsunami Warning Service (ETWS)
View Live Camera Feed
View Real-time Sensor Data
Integrate with C4ISR and Situational Awareness Platform
Emergency Location Capabilities

INTEGRATED FUNCTIONAL CAPABILITIES

MME/SAE Gateway
HSS/AuC/AAA
SMSC/MMSC
PCRF
IMS-Core for VoLTE/SMS/MMS
Base Band Unit (BBU)
Power Amplifiers

OPTIONAL ACCESSORIES

Tactical Battery Pack
Deployable Mast
SIM Cards
Handsets
Manpack Frame
Ruggedized Laptop
Antennas

LYNX™ Specifications

GENERAL

4G LTE Bands	All 3GPP Bands supported Band 14 for Public Safety
Wi-Fi	Dual (2.4 or 5)
Simultaneous Active Users	Up to 64
Provisioned Users	Up to 1,000
Maximum Throughput	120 Mbps downlink 45 Mbps uplink
Dimensions	12 x 5.5 x 5.75 in
Weight	14 lbs
Power Consumption	150W
Power Input Options	18-36VDC, Battery (BA-2590)
Transmit Power	Up to 8W per port
Antenna Ports	N-Type; up to 2x2 MIMO
Color Options	Black, Tan, Green
Bandwidth	1.4, 3, 5, 10, 15, and 20 MHz
GPS	Local or GPS Clock Synchronization
Data Interface	Auto-sensing Gigabit Ethernet (GbE)
Environmental	Designed to MIL-STD-810G



To learn more about our technology, products, and services, call us at [+1.410.872.6500](tel:+14108726500) or visit us at www.tecore.com ©Tecore Inc.

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