Nitro™

NITRO LXN 7900 BROADBAND CORE

TAKE CONTROL OF YOUR COMMUNICATION WITH PRIVATE BROADBAND

The LXN 7900 provides a resilient and reliable LTE broadband Evolved Packet Core (EPC) with full US DoD security protocols, IPSec encryption, carrier-grade capacity and robust priority management. It offers the ability to build and operate a private broadband network dedicated for your use while keeping sensitive information safely within your data network. The LXN 7900 is a secure, versatile and scalable core that gives you full control of your communications.

SCALABLE

The LXN 7900 Core components are built on software that is hosted on hardened COTS (Commercial Off The Shelf) hardware, sitting in your facility. Because the components are software designed to leverage NFV (Network Function Virtualization), network functionality and capacity will easily scale to meet your evolving requirements.

RESILIENT

Deployed in a locally redundant configuration, the on-premise core allows continued operation if any single component fails. And if you operate in high-risk areas, the core supports geographic redundancy, switching the core function to a different location in the event the primary location is inoperable.

SECURE

Of course security is important. That is why Motorola Solutions secure the network using US Department of Defense Security Technical Implementation Guide (STIG) methodology for reducing vulnerabilities. We protect the connection between the core and the eNodeBs with encryption, security credentials and a firewalled IPSec. The combined Motorola Solutions LXN 7900 core and RAN meets 3GPP, NIST 800-187, and applicable U.S. federal NIST 800-53 security standards.

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NETWORK MANAGEMENT

To manage the network, the LXN 7900 includes a central Operation Support System (OSS) tool that personnel can use to configure network equipment and set priority levels for data traffic. If the network needs to expand, personnel can add more user equipment and register new infrastructure. If congestion is a concern, configurable settings can prioritize what traffic should take precedence over other transmissions. The OSS provides network performance and status information as well as syslog messages from components to alert personnel to network events. A Northbound Interface can be used to integrate the OSS with a preferred network management tool.
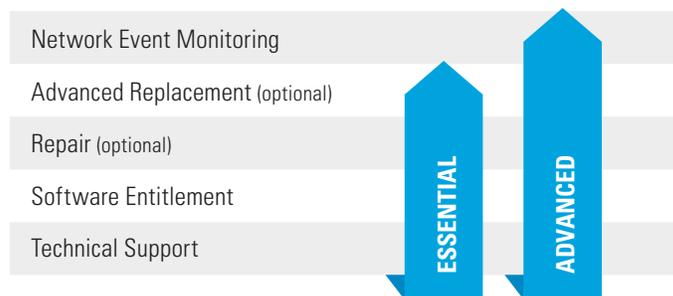
INTERNET OF THINGS

LXN 7900 allows agile deployment of NB-IoT and LTE-Cat-M core networks as a private network. This allows for end users like smart cities, industrial and enterprise campuses, utilities and other verticals to rapidly take advantage of dedicated IoT solutions using a distributed, regionalized architecture rather than incur the time delay, cost and complexity of monolithic centralized solutions. It supports 3GPP R15 to provide optimized communications for IoT devices, as well as the other capabilities in the 3GPP release.

SUPPORT WHEN YOU NEED IT

When the unexpected happens, our services provide you with access to technical support and resources to troubleshooting and maintenance, plus software upgrades keep your system updated and secure. Our Centralized Managed Support Operations will be your single point of contact for all service related issues 24x7x365. Choose Essential or Advanced Services based on the level of support required.

SERVICES AT - A - GLANCE

Network Event Monitoring		
Advanced Replacement (optional)		
Repair (optional)	ESSENTIAL	ADVANCED
Software Entitlement		
Technical Support		

LXN 7900
ON-PREMISE CORE

GENERAL SPECIFICATIONS

Approximate Capacities (Actuals vary by configuration)	300 eNodeB's
	50,000 mobile broadband subscribers
	200,000 IoT endpoints
IoT Features Supported	NB-IoT, CAT-M, eDRX, PSM, DoNAS, IP Data Delivery
Frequency Bands Supported	3GPP, Anterix 900MHz
Throughput	Approximately 5 Gbps, depending on configuration
Redundancy	Local or geographic
Server Quantity	Minimum 4, maximum dependant on subscribers and throughput
Server Details (per server)	CPU: 2 x 2.5GHz/12-core/30MB/120W
	RAM: 128 GB
	Storage: 1TB SSD
	Networking: 2x4x1 GbE embedded
Sever Dimensions (H x W x L)	1.7 x 17.11 x 27.5 in (4.32x43.47x69.85 cm)
Sever Weight	27 lbs (12.25 kg)
Power and cooling Hot Plug Power, High Performance Fans	Input voltage: 110-240 VAC Power consumption: 500W
Heat Dissipation	1902 BTU per hour
Operating Temp	10-35° celcius

Note: All specifications shown are typical unless otherwise stated and are subject to change without notice.

When your broadband communications are critical, and your needs are unique,
trust the leader in critical communications. Learn more at www.motorolasolutions.com/Nitro

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