LXN 6000
LTE INFRASTRUCTURE

SCALABLE SOLUTIONS QUICKLY DELIVER LTE CONNECTIVITY WHERE AND WHEN YOU NEED IT

MOTOROLA SOLUTIONS

Lessons learned from past events are clear – at the very time it's needed most, commercial cellular systems can quickly become overloaded or even completely destroyed, rendering communications and data capabilities useless.

LXN 6000 LTE Infrastructure solutions from Motorola Solutions ensure public safety, government agencies and other critical services always have the coverage and capacity needed for special events, man-made or natural disasters and remote area operations.

You operate in a dynamic, continually changing environment with growing demand for real-time information to improve decision making. To address this reality, you need to have instant control over your LTE broadband network to create coverage and capacity whenever and wherever the mission requires it.

Private LTE Portable Infrastructure from Motorola Solutions delivers a robust mobile broadband communications platform you can trust. By offering a range of options, it enables you to quickly and easily create ad hoc, standalone networks, augment existing networks and add new levels of system resiliency for business continuity and disaster recovery. Whether it's adding capacity to cover a sporting event, ensuring coverage for emergencies in isolated areas, or quickly replacing downed communications due to a disaster, you'll have the security, priority, control and speed essential to get the job done safer, smarter and faster.

	LXN 6000 LTE INFRASTRUCTURE	**SYSTEM ON WHEELS (SOW)**	**CELL ON WHEELS (COW)**
TYPICAL USE CASES	Designed for portable, semi-permanent or fixed installations, LXN 6000 LTE Infrastructure is the flexible solution you need to establish coverage and capacity where and when you need it. Quickly and easily create ad-hoc, standalone networks, augment existing networks and add new levels of system resiliency. Be ready for special events, man-made or natural disasters and remote area operations and improve business continuity and disaster recovery capabilities.	Complete LTE network on wheels used to create additional coverage and capacity for the macro LTE network, or for use in remote areas during natural disasters or major events.	Supplementary LTE network on wheels used in conjunction with the macro LTE network or SOW to create additional coverage and capacity, or for use in remote areas, during natural disasters or major events.
RANGE	High	High	High
POWER	High	High	High
CAPACITY	2000 Devices	2000 Devices	Based on network and use case
BACKHAUL REQUIREMENTS	• Fiber/Ethernet • Microwave • Satellite	• Fiber/Ethernet • Microwave • Satellite	• Fiber/Ethernet • Microwave • Satellite
APPLICATIONS	Hosted on SOW	Hosted on SOW	Based on network capacities and use case
EQUIPMENT	Base Station, Evolved Packet Core, Applications, Backhaul	Base Station, Evolved Packet Core, Applications, Backhaul	Base Station, Backhaul

KEY HIGHLIGHTS

Supports Mission Critical Operations: Provide access to fast mobile broadband connectivity with real-time access to voice, video, data and chat.

Fast Deployment: Set up and go live quickly and easily.

Standards-Based Technology: Ensure interoperability with equipment from multiple vendors.

Scalability and Expandability: Operate standalone or connect to your network.

Expanded RF Coverage: High-performance LTE devices and base stations provide coverage and capacity for existing networks, in remote areas where none exists, or where there has been a network outage.

Operations and Management: A comprehensive network configuration tool provides subscriber provisioning and local alarm monitoring.

Security: Secure connection between the eNodeB to the core helps minimize adversaries from accessing mission critical communications. The information sent between the eNodeB to the core is secured against man in the middle attacks and eavesdropping.
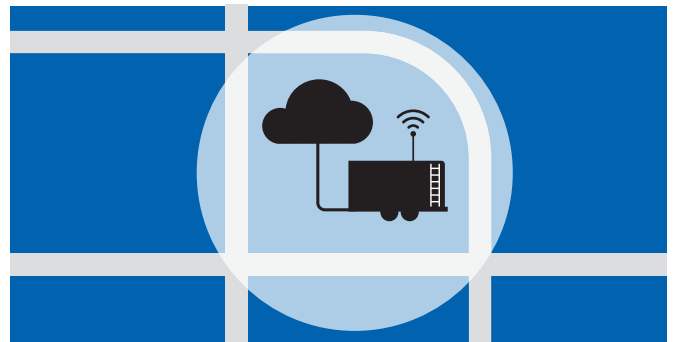
Applications Suite: Deliver high-definition video streaming using Motorola Solutions Real-Time Video Intelligence (RTVI). Enable seamless voice interoperability across LMR and broadband networks, and make secure VoIP push-to-talk calls with WAVE Work Group Communications. Provide greater situational awareness through real-time tracking of personnel location and status.

STANDALONE NETWORK MODE

From creating coverage where none exists in remote areas, to establishing secure communication bubbles around teams, vehicles and structures, or quickly enabling coverage in a network outage, standalone network mode meets the challenge to facilitate the flow of real time information and improve your operations.

Each SOW node operates as a standalone unit, consisting of the Radio Access Network (RAN), Evolved Packet Core (EPC), subscriber provisioning, and network management. The Home Subscriber Server (HSS) in each SOW is a local entity. The users attaching to each SOW are provisioned on the HSS of that SOW. A set of SIM cards is provisioned on the HSS of that system before the SOW is deployed in the field.

CUSTOMER CONNECTED NETWORK MODE

Augment the coverage and capacity of existing networks by connecting a SOW or multiple SOWs to a common location using transmission backhaul (fiber, microwave, or satellite). Take advantage of this connection to authorize users and monitor the status of the entire network in real time. With connection to your network, you have access to your applications and services including: databases, video servers, computer aided dispatch (CAD), electronic reporting, and email.

4G LTE

Release	3GPP Release 11

EVOLVED PACKET CORE

CPU	Four – 2.5GHz/12-core/30MB/120W
Memory	256GB
Storage	2TB SSD
Networking	2 x 4 x 1 GbE embedded
Power and Cooling	Hot Plug Power, High Performance Fans
Dimensions	1.7" (4.32cm) Height x 17.11" (43.47cm) Width x 27.5" (69.85cm) Length
Weight	27 lbs (12.25 kg)
Form Factor	2U
Throughput	500 Mbps
Max eNodeB supported	50
Max Users	2000

ENODEB

Supported Bands Per eNodeB – Band Class 14, 20, 26, 28

Output power – Up to 60 Watts

Flexible channel sizes from 5 to 20 MHz

2x2 MIMO support

4 way receive diversity (Optional)

Remote Electrical Tilt (RET) support (Optional)

Supports -48VDC power supplies

Tightly integrated network and site management system

Full IP connectivity

Gigabit Ethernet transport network interface

Battery backup options available

Standard range of 15 km with license extension beyond 15 km

OPERATIONS SUPPORT SYSTEMS (OSS)

Motorola Solutions provides a complete OSS solution for managing the LTE system.

Feature	Benefit
Intuitive Graphical User Interface (GUI)	System managers are quickly notified of failures on the system and can diagnose network equipment problems. Summary and detail maps provide a graphical display of site status in the geographical location within the system.
Active Alarms View and Alarm Summary	Persistent single view of all failure conditions ("What's Inoperable") in the network and a quick reference summary of alarms by severity, allowing users to quickly pinpoint the highest priority failures.
Role-based Access Control	Assignment of user privileges for access to views and operational capabilities.

To learn more about Public Safety LTE Solutions,
visit **motorolasolutions.com/publicsafetyLTE**

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