



PUBLIC SAFETY LTE

CONVERGED PACKET GATEWAY (CPG)

Anytime your personnel are on duty, whether on patrol, en route or at an incident scene, they need instant access to all of your agency information resources. You need a reliable, mobile broadband connection, with the intelligence to ensure that the most critical information has the network resources to reach its destination when it matters the most.

ERICSSON LTE TECHNOLOGY LEADERSHIP

Ericsson is the world's leading provider of technology and services to telecom operators. As the undisputed leader in LTE development and standardization, Ericsson is the most trusted, most proven provider of standards-compliant LTE technology. Motorola Public Safety LTE networks are designed using the proven performance of Ericsson LTE platforms to deliver mission critical broadband services to those responsible for protecting lives and property.

STANDARDS COMPLIANT

The CPG combines the Serving Gateway (SGW) and Packet Data Network Gateway (PGW), two key components of the standards defined Evolved Packet Core (EPC). The SGW terminates the interface toward the eNodeB, and is the local mobility anchor during inter-eNodeB handovers. The PGW provides connectivity to external IP data networks, services and applications.

FIELD-PROVEN PLATFORM

Motorola Public Safety LTE uses the Ericsson CPG platform for the SGW and PGW functions. With years of proven in-service performance, the Ericsson CPG currently provides mobile broadband service to a global user base. Public safety organizations can take comfort in knowing that their networks have passed the test of serving millions of users prior to being asked to provide mission critical services to first responders in high-stress situations.

BUILT FOR PUBLIC SAFETY

Optimized to serve mission critical activities, the CPG supports standards-defined Quality of Service (QoS) functionality, enabling the ability to prioritize data traffic on the LTE network and ensuring that the network is serving the most critical need at the moment.

PRODUCT SPEC SHEET
CONVERGED PACKET GATEWAY (CPG)

ERICSSON CPG FEATURES AND CAPABILITIES

- EPS bearer and session management of Packet Data Network (PDN) connections
- APN Management – multiple PDN per User Equipment (UE), APN-based routing/QoS
- QoS policy execution
- UE IP address allocation
- Service gateway reselection
- Idle mode support – buffer downlink and trigger paging procedure
- Operation and maintenance support
 - Configuration management
 - Fault management
 - Performance management
 - Security management
 - Software management
 - Network planning and analysis
 - Traffic shaping



SPECIFICATIONS

CAPACITY AND PERFORMANCE

Simultaneous IP Sessions	Up to 3,000,000
eNode Bs Supported	Up to 60,000
MMEs Supported	Up to 64
APNs Supported	Up to 3,000

PHYSICAL AND ENVIRONMENTAL

Size (W x D x H)	23.6 x 31.5 x 70.9 in 600 x 800 x 1800 mm
Weight	110 lbs (50 kg)
Voltage	-40VDC to -57.5VDC
Power Consumption	Input power maximum of 3840 VA Input power per feed, maximum of 1920 VA Input current rating per feed 40 ADC @ -48VDC Operate from -48VDC power supply
Storage	Temperature range: -40° to +70° C Relative humidity range: 5 to 95% (non condensing)
Operating Conditions	Short term temperature: -5° to 55° C Nominal temperature: 5° to 40° C Relative humidity range: 5 to 95% (non condensing) Altitude: 0 to 10,000 ft (0 to 3048 m)
NEBS Compliance	NEBS Level 3 GR-63-CORE GR-1089-CORE

REGULATORY AND COMPLIANCE

3GPP Standard	Release 9
Product Safety Standards	UL 60950 CSA 22.2 No. 60950 IEC60950 EN60950 AS/NZS 60950
EMC Emission	FCC Part 15, Class A ETSI EN300 386 CISPR 22 Class A VCCI Class A EN55022 Class A AS/NZA 3548 Class A
EMC Immunity	IEC 61000-4-2,3,4,5 and 6, ETSIEN300 386
Earthquake	Telcordia GR-63-CORE Zone 3 compliant

Motorola Solutions, Inc. 1301 E. Algonquin Road, Schaumburg, Illinois 60196 U.S.A. motorolasolutions.com/LTE

MOTOROLA, MOTO, MOTOROLA SOLUTIONS and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. The Ericsson three stripes logotype is a registered trademark of Telefonaktiebolaget L M Ericsson. All other trademarks are the property of their respective owners. © 2011 Motorola Solutions, Inc. All rights reserved. G3-36-105

