



#### PUBLIC SAFETY LTE

# RBS 6000 SERIES MACRO BASE STATIONS

More and more first responders and public safety agencies are considering wireless broadband for access to mission critical data and are looking for a reliable broadband connection, anywhere they operate, or wherever the next incident will be. The Ericsson RBS 6000 Series Base Stations meet the challenge for reliable, wide-area Public Safety LTE coverage.

#### 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.

#### NEXT GENERATION SITE

The enhanced Node B (eNodeB or eNB) is the base station component of the standards-defined LTE network. Motorola Public Safety LTE networks use the Ericsson RBS 6000 platform, a complete eNB package available in outdoor, indoor and open rack configurations. Designed for smart simplicity, the RBS 6000 Series features intelligent power and management systems, ensuring optimal operation, minimal maintenance and significantly lower power consumption to control operating costs.

#### FIELD-PROVEN PLATFORM

The RBS 6000 platform is the latest evolution of Ericsson's highly successful RBS Series base site equipment. With years of proven in-service performance, 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.

## ERICSSON RBS 6101 OUTDOOR MACRO BASE STATION FEATURES AND CAPABILITIES

With its site in a cabinet design, the RBS 6101 is built for outdoor use and delivers cost-effective coverage and capacity unrivaled in the industry. The outdoor cabinet and compact footprint make it an ideal selection for ground level or rooftop installations. The weather tight cabinet and integrated climate control system protect the electronics and keep the cabinet within operating limits. Battery backup can be supported with a weather tight unit underneath or beside the base station.

- Outdoor weather tight cabinet design
- Climate system keeps the cabinet temperature within specified limits
- Flexible channel sizes from 5 to 20 MHz

- 2x2 MIMO support
- 4 way receive diversity
- Remote Electrical Tilt (RET) support
- VSWR antenna supervision
- Tightly integrated network and site management system
- Full IP connectivity
- Gigabit Ethernet transport network interface
- Integrated power system for efficient on-demand power
- External battery backup options available
- Encrypted backhaul for bearer and control plane traffic



## SPECIFICATIONS

### PUBLIC SAFETY LTE BAND 14 OPERATION

Transmitter Frequency Range	Band 14 (758-768 MHz) Band 20 (791-821 MHz) Band 28 (758-803 MHz)
Receiver Frequency Range	Band 14 (788-798 MHz) Band 20 (8320862 MHz) Band 28 (703-748 MHz)
Channel Bandwidth	5, 10, 15 or 20 MHz
Transmitter Power Output	Up to 60W

### PHYSICAL AND ENVIRONMENTAL

Cabinet Size (W x D x H)	27.5 x 27.5 x 57 in 700 x 700 x 1450 mm
Cabinet Weight	397lb (180 kg) fully equipped, excluding batteries
Site Power	110-250 VAC, -48 VDC
Operating Requirements	Temperature: -33° to +50° C For a DC-powered RBS, cold start up has a lower limit of -25°C Relative humidity: 15-100%

### REGULATORY AND COMPLIANCE

EMC Compliance	2004/108/EC R & TTE directive 1999/5/EC EN 55022 Class B GSM: 11.21 FCC part 90
Product Safety Compliance, North America	ANSI/UL 60 950-1 / CSA C22.2 No. 60 950-1 ANSI/UL 60 950-22 / CSA C22.2 No. 60 950-22
	EN 60 950-1/IEC 60 950-1 Edition 2 EN 60 215/IEC 215 EN 60 529/IEC 529 UL 60 950-1, 2nd edition, Information Technology Equipment Including Electrical Business Equipment
	CSA C22.2 No. 60 960-1, Safety of Information Technology Equipment Including Electrical Business Equipment
	CSA 22.2 No. 1-M94, Audio, Video and Small Electronic Equipment

## ERICSSON RBS 6201 INDOOR MACRO BASE STATION FEATURES AND CAPABILITIES

The RBS 6201 is an indoor site in a cabinet design delivering cost-effective coverage and capacity unrivaled in the industry. Featuring an extremely high degree of integration and modular building practice, the RBS 6201 is an entire site, including transmission and power in a single cabinet.

- Entire site in a cabinet design
- Flexible channel sized from 5 to 20 MHz
- 2x2 MIMO support
- 4 way receive diversity
- Remote Electrical Tilt (RET) support

- VSWR antenna supervision
- Tightly integrated network and site management system
- Full IP connectivity
- Gigabit Ethernet transport network interface
- Integrated power system for efficient on-demand power
- Battery backup options available
- Encrypted backhaul for bearer and control plane traffic



## SPECIFICATIONS

### PUBLIC SAFETY LTE BAND 14 OPERATION

Transmitter Frequency Range	Band 14 (758-768 MHz) Band 20 (791-821 MHz) Band 28 (758-803 MHz)
Receiver Frequency Range	Band 14 (788-798 MHz) Band 20 (8320862 MHz) Band 28 (703-748 MHz)
Channel Bandwidth	5, 10, 15 or 20 MHz
Transmitter Power Output	Up to 60W
<b>PHYSICAL AND ENVIRONMENTAL</b>	
Size (W x D x H)	23.6 x 19 x 56.5 in 600 x 483 x 1435 mm
Weight	474lb (215 kg)

Site Power -48 VDC, +24VDC, 100-250 VAC

Operating Requirements Temperature: +5° to +50° C  
Relative humidity: 5-85%

### REGULATORY AND COMPLIANCE

EMC Compliance	2004/108/EC R & TTE directive 1999/5/EC EN 55022 Class B GSM: 11.21 FCC part 90
Product Safety Compliance	EN 60 950-1/IEC 60 950-1 Edition 2 EN 60 215/IEC 215 EN 60 529/IEC 529 UL 60 950-1, 2nd edition, Information Technology Equipment Including Electrical Business Equipment
	CSA C22.2 No. 60 960-1, Safety of Information Technology Equipment Including Electrical Business Equipment
	CSA 22.2 No. 1-M94, Audio, Video and Small Electronic Equipment

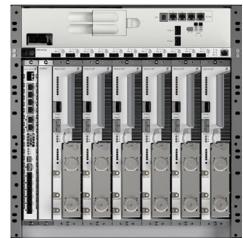
**PRODUCT DATA SHEET**  
RBS 6000 SERIES BASE STATIONS

## ERICSSON RBS 6202 OPEN RACK BASE STATION FEATURES AND CAPABILITIES

The RBS 6202 features an open rack design for a complete macro site in any 19-inch rack solution. This zero footprint solution provides the flexibility for installations where cabinets may not be practical such as tight indoor urban/suburban locations.

- Flexible channel sized from 5 to 20 MHz
- 2x2 MIMO support
- 4 way receive diversity
- Remote Electrical Tilt (RET) support
- VSWR antenna supervision

- Tightly integrated network and site management system
- Full IP connectivity
- Gigabit Ethernet transport network interface
- Integrated power system for efficient on-demand power
- Battery backup options available
- Encrypted backhaul for bearer and control plane traffic



## SPECIFICATIONS

### PUBLIC SAFETY LTE BAND 14 OPERATION

Transmitter Frequency Range	Band 14 (758-768 MHz) Band 20 (791-821 MHz) Band 28 (758-803 MHz)
Receiver Frequency Range	Band 14 (788-798 MHz) Band 20 (8320862 MHz) Band 28 (703-748 MHz)
Channel Bandwidth	5, 10, 15 or 20 MHz
Transmitter Power Output	Up to 60W

### PHYSICAL AND ENVIRONMENTAL

Size (W x D x H)	19 x 14.5 x 19.3 in 483 x 370 x 489 mm
Weight	154 lb (70 kg) fully equipped
Site Power	-48 VDC
Operating Requirements	Temperature: +5° to +50° C Relative humidity: 5-85%

### REGULATORY AND COMPLIANCE

EMC Compliance	2004/108/EC R & TTE directive 1999/5/EC EN 55022 Class B GSM: 11.21 FCC part 90
Product Safety Compliance	EN 60 950-1/IEC 60 950-1 Edition 2 EN 60 215/IEC 215 EN 60 529/IEC 529 UL 60 950-1, 2nd edition, Information Technology Equipment Including Electrical Business Equipment  CSA C22.2 No. 60 960-1, Safety of Information Technology Equipment Including Electrical Business Equipment  CSA 22.2 No. 1-M94, Audio, Video and Small Electronic Equipment

## PRODUCT DATA SHEET

RBS 6000 SERIES BASE STATIONS

## ERICSSON RBS 6601 REMOTE RADIO BASE STATION FEATURES AND CAPABILITIES

The RBS 6601 is a Base Station with external radios. It consists of an indoor main unit and a number of Remote Radio Units (RRUs), which are designed to be located near the antenna. An optical cable connects each RRU to the main unit. Optical cables are available in standard lengths, ranging from a few meters to several hundred meters.

- Flexible channel sizes from 5 to 20 MHz
- 2x2 MIMO support
- 4 way receive diversity
- Remote Electrical Tilt (RET) support

- VSWR antenna supervision
- Tightly integrated network and site management system
- Full IP connectivity
- Gigabit Ethernet transport network interface
- Integrated power system for efficient on-demand power
- Battery backup options available
- Encrypted backhaul for bearer and control plane traffic

## SPECIFICATIONS

### PUBLIC SAFETY LTE BAND 14 OPERATION

Transmitter Frequency Range	Band 20 (791-821 MHz) Band 28 (758-803 MHz)
Receiver Frequency Range	Band 20 (832-862 MHz) Band 28 (703-748 MHz)
Channel Bandwidth	5, 10, 15 or 20 MHz
Transmitter Power Output	Up to 60W
<b>PHYSICAL AND ENVIRONMENTAL</b>	
Main Unit Size (W x D x H)	19 x 14 x 2.6 in 483 x 355 x 66 mm
Remote Radio Unit Size (W x D x H)	11.3 x 10 x 19.4 in 288 x 255 x 494 mm
Main Unit Weight	46 lb (21 kg) fully equipped
Remote Radio Unit Weight	<22 lb (<10 kg)
Site Power	-48 VDC
Operating Requirements	Temperature: +5° to +50° C Relative humidity: 5-85%

### REGULATORY AND COMPLIANCE

EMC Compliance	2004/108/EC R & TTE directive 1999/5/EC EN 55022 Class B GSM: 11.21 FCC part 90
Product Safety Compliance	EN 60 950-1/IEC 60 950-1 Edition 2 EN 60 215/IEC 215 EN 60 529/IEC 529 UL 60 950-1, 2nd edition, Information Technology Equipment Including Electrical Business Equipment
	CSA C22.2 No. 60 960-1, Safety of Information Technology Equipment Including Electrical Business Equipment
	CSA 22.2 No. 1-M94, Audio, Video and Small Electronic Equipment

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