

RBS 6501

Ericsson multi-standard micro RBS 6501 supports 3GPP 37.104 which gives full medium range coverage in a heterogeneous network environment. The integrated radio with 2x5 W provides right micro cell size and capacity.

The RBS 6501 is designed to handle high capacity micro cells, single or multi sectors. RBS 6501 also supports multiband sites with an integrated interface to micro RRU. The multi-standard design allows for migration from WCDMA to LTE with help of a software upgrade.

The compact design and possibility to wall, pole or strand mount together with the high integration, makes it easy to find suitable site locations for optimal radio performance.

This, coupled with macro feature parity for WCDMA and LTE makes the RBS 6501 the best choice when deploying outdoor small cells in heterogeneous networks.

High capacity

The RBS 6501 provides excellent radio performance tailored for small cell. Both WCDMA and LTE are supported to meet today's challenges as well as those in the future. The RBS 6501 supports MIMO, WCDMA dual carrier and LTE carrier aggregation with an additional micro RRU.

Interfacing and provisioning made easy

The RBS 6501 can be powered by AC or -48V DC and supports up to 2 external alarms. RBS 6501 has an interface for connection of an additional remote radio (CPRI) in order to increase bandwidth and sector, frequency band, or antenna branches.



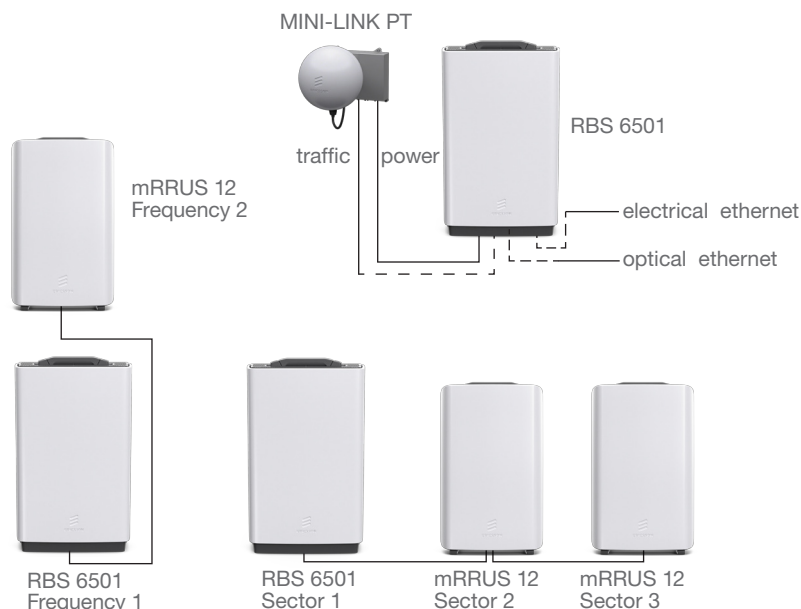
Secure auto provisioning and SON support optimize the deployment process and lower the costs. This coupled with a tight integration into OSS-RC simplifies the task of adding small cells.

Heterogeneous networks

The RBS 6501 is fully integrated with the macro network using Iub- interface for WCDMA and X2 interface for LTE. This is essential in order to provide full coordination with high capacity gains which allows for reuse of the same spectrum in macro and small cells.

Flexible transmission

The RBS 6501 transport solution is designed for versatile small cell deployments. The support of internet-grade backhaul enables connecting the RBS 6501 over public IP networks while maintaining full coordination with the macro network providing seamless access to all RAN services. There are also multiple synchronization solution alternatives delivering frequency, time and phase synch.



TECHNICAL SPECIFICATIONS RBS 6501

FREQUENCY BANDS

UTRA/FDD, E-UTRA/FDD: All bands.

HW CAPACITY

Carrier bandwidth WCDMA: 6xWCDMA carriers, 4 integrated in the RBS 6501 and additional 2 with mRRUS 12
 Carrier bandwidth LTE: 120 MHz antenna bandwidth, 20 MHz MIMO integrated in the RBS 6501
 IBW: 25 MHz
 MIMO: Yes, 2x2 MIMO
 LTE carrier aggregation: Yes
 WCDMA dual carrier: Yes
 Output power: 2x125 mW to 2x5 W, Compliant with 3GPP, Local Area and Medium Range 37.104
 WCDMA: 168/24 Mbit/s, 64 speech users, 192 data users, CE DL/UL 96/96, 60 HS codes
 LTE: 225/75 Mbit/s, 1000 connected users

INTERFACE SPECIFICATIONS

Power supply: 100 - 250 VAC 50/60 Hz or -48 V DC 2-wire / 3-wire.
 DC out: RBS 6501 in AC or DC mode supports 50 W DC out for auxiliary equipment such as WiFi or MINI-LINK PT
 Antenna 3GPP: Integrated patch antenna with 6 dBi gain, H90°, V90° or Semi integrated omni antenna or external antenna
 Antenna GPS: Integrated or external antenna
 CPRI out: Yes, gives support for multi sectors and dual band with mRRUS 12
 External alarms: 2
 OSS support: Integrated to OSS-RC with extensive SON support
 Hardware multi standard: WCDMA or LTE

TRANSMISSION

Interfaces: Optical or Electrical Ethernet, Internet Grade Backhaul support, Integrated GPS synchronization, NTP, IEEE 1588v2, Synchronous Ethernet

MECHANICAL SPECIFICATIONS

HxWxD: 438 x 294 x 119 mm (15.3) without sunshield and tamper proof hatch
 HxWxD: 501 x 303 x 131 mm (19.9) with sunshield, tamper proof hatch and handle
 Weight: 16 kg including sunshield, antenna, GPS and tamper proof hatch
 Mounting: Flexible mounting on walls or poles in vertical or horizontal direction and strand mount in horizontal direction. RBS 6501 fastener allows for vertical and horizontal alignment.

ENVIRONMENTAL SPECIFICATIONS

Environment: Outdoor class with IP55
 Normal operating temp.: -40 - +55 °C (cold start from -33 °C)