



RBS 6402

The multi standard RBS 6402 delivers up to 300 Mbps LTE speeds with carrier aggregation. With up to 10 bands, concurrent multi-standard (LTE, WCDMA and Wi-Fi), and mixed-mode capabilities, the product delivers most flexibility on the market. Deployment process is made easy with powering over Ethernet and Auto Integration. The RBS 6402 can be network-live in 10 minutes, with innovative plug-and-play installation using existing Ethernet anywhere. With remote software activation of frequencies the product is easily updated for any future spectrum and re-farming opportunity.

The RBS 6402 provides excellent radio performance tailored for small cell radios. It supports dual carrier and carrier aggregation using up to 4 x 250 mW with an IBW of 40 MHz. The RBS 6402 meets today's challenges and also secures your investment for the future with up to 128 active LTE users.

Fast deployment and provisioning made easy

The RBS 6402 supports a selection of up to 10 frequency bands (3GPP+Wi-Fi) in one unit where 2 bands 3GPP (LTE/WCDMA) and 2 bands Wi-Fi can be used in simultaneous operation. Secure auto provisioning and SON support optimizes the deployment process and lower the total costs. Moreover, a good integration into OSS-RC, IPsec for untrusted networks, signed SW and a secure O&M access for untrusted locations simplifies the task to add small cells.

Integrated small cells

The RBS 6402 is fully integrated with the macro network in a heterogeneous network using lub for WCDMA and S1/X2 for LTE. This is essential in order to provide full co-ordination with high capacity gains and allows for reuse of the same spectrum in macro and small cells.

Flexible transmission

The RBS 6402 transport solution is designed for versatile small cell deployments for full co-ordination with the macro network and seamless access to all RAN services. The support of Internet-grade Backhaul enables connecting the RBS 6402 over public IP networks with less restriction on delay and jitter. There are also multiple synchronization solution alternatives delivering frequency, time and phase synchronization. Flexible connectivity is enabled through a combination of native and modularized transmission options for supporting copper, fiber and wireless backhaul.

Technical Specification RBS 6402

CAPACITY

Multi standard:	WCDMA, LTE and Wi-Fi (optional) • Up to 10 bands in three modules available: 2-4 LTE/WCDMA bands per module • 2 3GPP bands operate simultaneously and 1 Wi-Fi module operates in 2 bands • LTE 2 Carrier Aggregation up to 300/50 Mbps DL/UL • LTE 2 Carrier and LAA/LTE-U 5GHz unlicensed band
LTE:	Carrier bandwidth 5, 10 and 20 MHz 2x2 MIMO
WCDMA:	21/5.76 Mbps DL/UL, HW prepared for Dual Carrier 42 Mbps DL RNC connected, Full mobility
Wi-Fi 2.4 GHz	802.11 b/g/n, 3x3 MIMO, 23 dBm (EIRP, 18 dBm per chain)
Wi-Fi 5 GHz:	802.11 a/n/ac, 3x3 MIMO, 23 dBm (EIRP, 18 dBm per chain)
RF Power 3GPP:	Up to 2x250 mW per module (total 4x250 mW)
Antenna:	Integrated omni-directional antennas for LTE/WCDMA and Wi-Fi Support for external antennas for LTE/WCDMA
Typical coverage:	800 - 2 500 m ² depending on building type
Active users:	Up to 64 for WCDMA and up to 128 for LTE

TRANSMISSION

Interfaces:	1 Gbps Electrical Ethernet, Optical as an option SFP and transmission module options
Features	Internet-grade Backhaul support, TWAMP
Security:	IPsec for untrusted networks Signed SW and secure O&M access for untrusted locations
Synchronization:	GPS, NTP, IEEE 1588v2

MECHANICAL SPECIFICATIONS

HxWxD:	280x167x62mm (excluding connector field)
Volume:	2.8 liters
Weight:	2.5 kg
Mounting:	Flexible mounting on walls and ceilings

INTERFACE SPECIFICATIONS

Power supply:	Power over Ethernet line, Power over Ethernet injector or External AC/DC adapter
LED indication:	Total 8 LED for 3GPP, Backhaul & Wi-Fi
GPS:	Support for external GPS (optional)

ENVIRONMENTAL SPECIFICATIONS

Environment:	ETSI 3.1, IP20
Normal operating temp.:	0 - +50° C with fan, 0 - +40° C with passive cooling
OSS support:	Integrated to OSS-RC/Ericsson Network Manager