



LTE-200 Base Station

Compact 150 Mbps quad-band LTE base station

The EXSITE LTE-200 is a compact LTE base station (eNodeB) supporting 150 users and a data rate of up to 150 Mbps for applications including military communications, distributed antenna systems, emergency services and private networks.

Designed with these markets in mind, the LTE-200 benefits from quad-band flexibility, simple integration with custom management systems, reliability through passive cooling, and hardware features such as an integrated LTE modem for backhaul communications.

The LTE-200 may be supplied with on-board core network software and SIM cards for completely standalone (network-in-a-box) operation. In this mode, simply add DC power and dual RF antennas for a fully functioning network.

All signalling and user plane backhaul interfaces are standards-based (3GPP) and simple APIs are provided for management and fault reporting, allowing rapid and reliable integration.

Built around the advanced Cavium CNF73xx system-on-a-chip, the LTE-200 integrates proven technology to deliver high-performance in a compact low-power solution. It is the first in a range of Cavium-based eNodeBs from cellXica.

Customisations are available on request, including alternative banding, non-duplexed antennas and additional hardware features.

BENEFITS

- Quad-band flexibility
- Highly integrated, just add antennas and power for a complete network-in-a-box
- Passively cooled for reliability
- Simple integration with custom management systems
- Hardware features for specialised deployments

For further information please contact sales on +44 (0) 1223 755 115 or email sales@cellXica.net

KEY FEATURES - HARDWARE

- Based on the advanced Cavium CNF73xx system-on-a-chip
- Quad-band, duplexed (other options available)
- On-board GPS receiver for location and frequency synchronisation
- On-board LTE modem for backhaul and remote management
- Type-A USB for mass storage device or WiFi/cellular dongle
- SD card for cellXica and third-party/customer software
- Gigabit Ethernet
- Custom form-factors available
- Available as a module for OEMs and system integrators

KEY FEATURES - SOFTWARE

- Lightweight management APIs for rapid and reliable integration
- Linux kernel with support for running third-party software on-board
- May be supplied with core network on-board for standalone operation
- Compatible with Quortus, Druid, AttoCore and other standards-compliant core networks

LTE SPECIFICATION

- 3GPP release 10 eNodeB
 - Field-upgradeable to release 13
- FDD and TDD
- Quad-band
 - Band options: 1, 2, 3, 5, 6, 7, 8, 12, 20, 38, 40, 41, 42, 43 or 46
 - Custom banding and non-duplexed options available (300 MHz – 6 GHz)
- Power output: 24 dBm per antenna (RMS)
- Bandwidths: up to 20 MHz
- Data rates: up to 150 Mbps downlink, 100 Mbps uplink
- Active users: up to 150
- Duplexed antennas: 2 x TX/RX SMA
- Standard S1 backhaul interface

APPLICATIONS

- Military and critical communications
- DAS signal source
- Emergency services
- Private networks

HARDWARE



- Dimensions: 190mm x 160 mm x 100 mm
- Power: 9 - 16 V DC
- Power consumption: 25W
- Weight: 2.5 kg
- 1 x DC power
- 2 x SMA duplexed RF (or 4 x SMA non-duplexed)
- 1 x SMA GPS
- 2 x SMA LTE backhaul modem
- 1 x Type-A USB
- 1 x Ethernet

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