

GSM-in-LTE (GiLTE) Basestation

Single basestation providing simultaneous co-channel GSM and LTE coverage

GiLTE is an innovative solution to allow LTE coverage to be extended while maintaining GSM for CS voice and telemetry.

Mobile communications spectrum has traditionally been allocated in bands for specific radio technologies such as GSM, UMTS and LTE. In many regions, additional spectrum is being made available with fewer restrictions on use such as the UK 1800 MHz guard band.

In addition, many operators expect GSM and LTE to form the backbone of mobile networks for some years to come.

GiLTE allows a single basestation to provide both GSM and LTE concurrently, with both fully contained within the bandwidth of the LTE signal. This provides a cost effective and bandwidth efficient solution.

KEY FEATURES

- Simultaneously operates as a GSM basestation and LTE FDD eNodeB
- Standards compliant core-network interfaces
- GSM signal is fully contained within LTE bandwidth
- Ideal for UK 1800 MHz guard band or similar bandwidth-limited deployments
- Available as a radio module or indoor/outdoor packaged solution
- Compatible with Quortus ECX Core, Druid Raemis™, AttoCore and other standards compliant core networks
- May be supplied with core on-board for compact standalone operation
- Lightweight management interface for rapid system integration
- LTE, UMTS and GSM radio environment monitoring provides extensive information on neighbour cells
- Self-organising network (SoN) features allow automatic configuration
- Patent pending



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

GENERAL SPECIFICATION

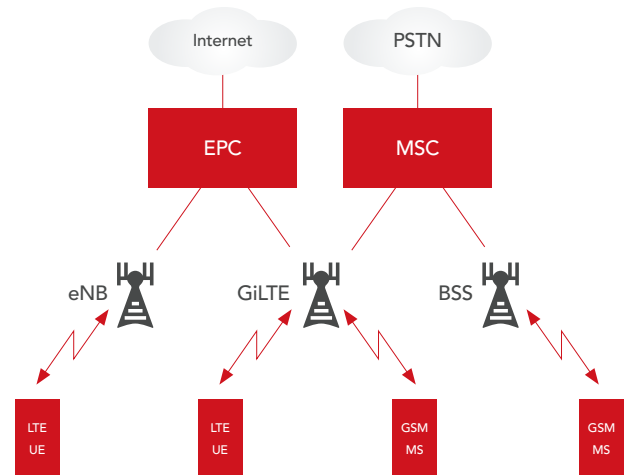
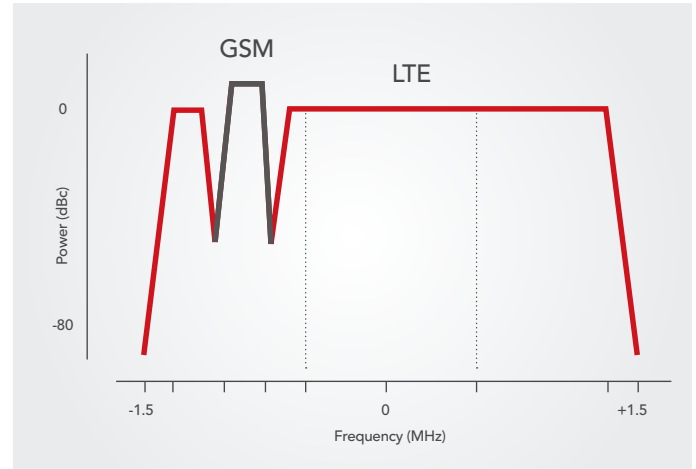
- Frequency bands: Any band that supports both LTE and GSM for that region e.g. band 3 in UK
- Cell radius: Up to 5 km
- RF output power: +27 dBm
- Environmental: 0°C to 85°C operating
- Dimensions: 250mm x 180mm x 60mm
- Backhaul: PPPoE, LAN (Ethernet/optional WiFi)

LTE SPECIFICATION

- Release 8/9 FDD eNodeB
- 2x2 MIMO
- Bandwidths: 1.4, 3, 5, 10 and 20 MHz
- Standards compliant S1 core-network interface
- 32 simultaneous users
- Physical layer data rate up to 50 Mbps
- QPSK, 16QAM, 64QAM support

GSM SPECIFICATION

- Industry standard A/Abis-over-IP core network interfaces
- 7 simultaneous FR voice/GPRS users
- 14 simultaneous HR voice users



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