LE910Q1 Mini PCIe Series

LTE Cat 1 bis

Product Description

The LE910Q1 series mini PCIe (mPCIe) modules are optimized for LTE low category networks and are available in a single mode global variant with and without GNSS. The LE910Q1 series are interchangeable with other modules in the xE910 mPCIe family.

Key Benefits

• Standard mini PCIe data-card form factor

• Best-in-class 3GPP Rel14 platform

• Easy to integrate with peripherals and actuators using USB 2.0 HS, UART and user-definable GPIOs

• Battery-friendly 1.8V GPIO

• Ideal platform for IoT applications and mobile data and computing devices with ultra-compact design and extended operating temperature range

• Internet friendly with integrated TCP/IP and UDP/IP stacks

• Simple drop-in migration and technology design reuse path to 2G and 3G with any xE910 module

• Firmware over-the-air (FOTA) update

Family Concept

Longevity and cost-efficiency are built right into the developer's product architecture with the Telit Cinterion family "design once, use anywhere" philosophy.

Designers looking to add LTE capabilities to commercial and industrial computing devices benefit from the simple yet powerful mPCIe form factor with the flexibility to choose another technology best suited for the application environment from any one of the other models in the xE910 mPCIe series.

Variants

- Cat 1 bis global market - AT&T, Verizon, T-Mobile

- Cat 1 bis with GNSS global market - AT&T, Verizon, T-Mobile

AVAILABLE FOR

EMEA
North America
LATAM
APAC

LE910Q1 Mini PCIe Series

Variants

	LE91Q1-WW	LE910Q1-WWG
Market	Global	Global
Frequencies		
4G Bands (MHz)	B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28, B66, B34, B38, B39, B40, B41	B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28, B66, B34, B38, B39, B40, B41
3G Bands (MHz)	-	-
2G Bands (MHz)	-	-
Voice	-	-

Product Features

- LTE FDD Cat 1 bis 3GPP Rel 14 compliant
- Single LTE antenna
- Built-in UDP, TCP, PPP, HTTP, HTTPS, NTP, FTP stack
- IPv4/IPv6 stack
- Control via AT commands according to 3GPP
- TS 27.005, 27.007 and Telit Cinterion custom AT commands
- Wi-Fi scan
- Embedded GNSS (GPS, GLONASS, Galileo, BeiDou, QZSS, SBAS) only LE910Q1-WWG varints
- Compliant with GSMA SGP.22 Remote SIM
- Provisioning (RSP) standard
- Validated against Telit Cinterion NExT SGP.22 eSIMs

Hardware and Electrical Specifications

- Dimensions 51 x 30 x 3.6 mm
- 181-pin LGA interface
- 10 I/O ports (@1.8V), including multifunctional I/Os
- USB 2.0 HS
- UART
- 1.8 V SIM interface
- RF pad
- Industrial temperature range:
  -40°C to +85°C
- REACH and RoHS compliant
- Output power:
  - Class 3 (0.2 W, 23 dBm) @ LTE
- Supply voltage range:
  - Nominal: 3.3 VDC
  - Range: 3.1 - 3.6 VDC

Data

LTE Cat 1 bis
- Uplink up to 5 Mbps
- Downlink up to 10 Mbps

Approvals

- FCC/ISED, PTCRB, RED, GCF, RCM
- AT&T, Verizon, T-Mobile
- NTT Docomo, KDDI

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