LE910Cx ThreadX

LTE Cat.4 150/50 - Cat.1 10/5

Product Description

The LE910Cx series of 4G LTE modules are compliant with the 3GPP Release 10 and are available with optional quad-constellation GNSS capability. This compact LGA form factor family is available in a variety of configurations, supporting both single-mode and fallback as needed for specific regions, carriers, and use cases.

Key Benefits

- Best-in class 3GPP rel10 platform
- MTC features ready according to 3GPP Rel.12
- Easy to integrate with peripherals and actuators using USB 2.0 HS, UART and user definable GPIOs
- 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 Over-the-Air firmware update
- Embedded GNSS solution

Family Concept

The LE910Cx ThreadX is a member of Telit's flagship xE910 module family delivering 4G radio access technology in the 28.2 x 28.2 x 2.2 mm family form factor. The Telit Cinterion xE910 Unified Form Factor Family is comprised of 2G, 3G, and 4G, 3GPP and 3GPP2 products sharing a common form factor as well as electrical and programing interfaces which allows developers to implement a "design once, use anywhere" strategy.

Variants

- Cat.1 4G with 3G/2G fallback for EMEA with full coverage for EU market

- Cat.1 4G North American market - AT&T

- Cat.1 4G North American market - Verizon

- Cat.1 4G with 3G/2G fallback for EMEA/North America/APAC/LATAM

- Cat.4 4G with 3G/2G fallback for EMEA/North America/APAC/LATAM

- Cat.1 4G with 2G fallback for India market

IoT Connectivity and Portal Ready

This product is capable of supporting the extensive suite of Value Added Services from IoT Connectivity including Module Management and others which make the management of IoT deployments under mobile networks effective, enhancing profitability and reliability. It is also Portal-ready which means that the AT command library in this module includes a set of high-level commands designed exclusively for quick and hassle-free on-boarding of the device to the portal and to back-end systems and servers.

AVAILABLE FOR

- North America
- Australia
- Europe
- Japan
- India
- LATAM

LE910Cx ThreadX

Variants

	LE910C1/C4-EUX	LE910C1-SAX/SAXD	LE910C1/C4-WWX/WWXD	LE910C1-APX	LE910C1/C4-SNX/SNXD	LE910C1/C4-NFX/NFXD	LE910C1-INX
Market	EMEA	North America (AT&T)	EMEA, North America, (AT&T, Verizon, T-Mobile) APAC, LATAM	APAC (NTT/KDDI/Telstra)	North America (AT&T, Verizon)	North America (AT&T, Verizon, T-Mobile)	India
Frequencies							
4G bands	B1, B3, B7, B8, B20, B28A	B2, B4, B12, B66	B1, B2, B3, B4, B5, B7, B8, B8_US B9, B12, B13, B14, B18, B19, B20, B25, B26, B28	B1, B3, B5, B8, B9, B18, B26, B19, B28	B2, B4, B5, B12, B13, B66	B2, B4, B5, B12, B13, B14, B66, B71	B1, B3, B5, B8, B40, B41
3G bands	B1, B3, B8	-	B1, B2, B4, B5, B6, B8, B19	-	-	-	-
2G bands	B3, B8	-	B2, B3, B5, B8	-	-	-	B3, B8
Voice	VoLTE/3G/2G	VoLTE (only -SAX version)	VoLTE/3G/2G (only -WWX version)	VoLTE	VoLTE (only SNX version)	VoLTE (only -NFX version)	-

Product Features

- LTE FDD Cat.1. 3GPP release 10 compliant
- LTE FDD Cat.4. 3GPP release 10 compliant
- Rx Diversity and MIMO DL 2x2
- Single Rx option
- VoLTE support
- SMS over IMS
- Built in UDP/TCP/FTP/SMTP stack
- IPv4/IPv6 stack
- Control via AT commands according to 3GPP
- TS 27.005, 27.007 and Telit Cinterion Custom AT commands
- SIM application Tool Kit
- OMA-DM Telit Cinterion Software Management
- Simultaneous support of GPS, Glonass, Beidou, Galileo, QZSS
- Compliant with GSMA SGP.22 Remote SIM Provisioning (RSP) standard
- Validated against Telit Cinterion NExT SGP.22 eSIMs

Hardware and Electrical Specifications

- Dimensions: 28.2 x 28.2 x 2.2mm
- Dimensions LE910C1-WWX and LE910C4-WWX: 29.4 x 29.4 x 2.2 mm
- 181-pin LGA interface
- 10 I/O ports (@1.8V) including multifunctional I/Os
- USB 2.0 HS / HSIC
- UART
- SPI
- PCM
- I2C
- 1.8 V / 3V SIM interface
- RF pad, RX Div. & MIMO pad
- Temperature Range Industrial:

  -40°C to +85°C
- REACH and RoHS compliant
- Output power
  - Class 3 (0.2 W, 23 dBm) @ LTE
- Supply voltage range:
  - Nominal: 3.8 VDC
  - Range: 3.4 - 4.2 VDC

Data

LTE Cat. 1

- Uplink up to 5 Mbps
- Downlink up to 10 Mbps

LTE Cat. 4

- Uplink up to 50 Mbps
- Downlink up to 150 Mbps

Approvals

- FCC/ISED, PTCRB, MNOs (North America)
- RCM, MNO (Australia)
- RED/GCF (Europe)
- JRL/JTBL (Japan)
- Enacom, Anatel, CRC, MTC (Latin America)

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