

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 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 programming 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

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](#)

[apan](#)

[LATAM](#)

	LE910C1-EUX	LE910C1-SAX	LE910C1-SAXD	LE910C1-SVX	LE910C1-WWX	LE910C4-WWX	LE910C1-WWXD	LE910C4-WWXD	LE910C1-APX
Market	EMEA	North America (AT&T)	North America (AT&T)	North America (Verizon)	EMEA, North America, APAC, LATAM	EMEA, North America, APAC, LATAM	EMEA, North America, APAC, LATAM	EMEA, North America, APAC, LATAM	APAC (NTT/KDDI/SB)
Frequencies									
4G bands	B1, B3, B7, B8, B20, B28A	B2, B4, B12, B66	B2, B4, B12, B66	B4, B13	B1, B2, B3, B4, B5, B7, B8, B8_US B9, B12, B13, B14, B18, B19, B20, B25, B26, B28	B1, B2, B3, B4, B5, B7, B8, B8_US B9, B12, B13, B14, B18, B19, B20, B25, B26, B28	B1, B2, B3, B4, B5, B7, B8, B8_US B9, B12, B13, B14, B18, B19, B20, B25, B26, B28	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
3G bands	B1, B3, B8	-	-	-	B1, B2, B4, B5, B6, B8, B19	B1, B2, B4, B5, B6, B8, B19	B1, B2, B4, B5, B6, B8, B19	B1, B2, B4, B5, B6, B8, B19	-
2G bands	B3, B8	-	-	-	B2, B3, B5, B8	B2, B3, B5, B8	B2, B3, B5, B8	B2, B3, B5, B8	-
Voice	VoLTE/3G/2G	VoLTE	-	VoLTE	VoLTE/3G/2G	VoLTE/3G/2G	-	-	VoLTE

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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 Custom AT commands
- SIM application Tool Kit 3GPP TS 51.014
- OMA-DM Telit Software Management
- Simultaneous support of GPS, Glonass, Beidou,
- Galileo, QZSS

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

Environmental

- Dimensions: 28.2 x 28.2 x 2.2mm
- Dimensions LE910C1-WWX and LE910C4-WWX: 29.4 x 29.4 x 2.2 mm
- Temperature Range
 - Industrial: -40°C to +85°C
- REACH and RoHS compliant

Interfaces

- 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

Approvals

- FCC /ISED, PTCRB (North America)
- RED/GCF (Europe)

Electrical & Sensitivity

- Output power
 - Class 3 (0.2 W, 23 dBm) @ LTE
- Supply voltage range:
 - Nominal: 3.8 VDC
 - Range: 3.4 - 4.2 VDC

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