LE910Cx Mini PCIe Series Linux

LTE Cat.1 and 4

Product Description

The LE910Cx series Mini PCIe (mPCIe) modules are optimized for LTE low category networks and are available in single mode and 3G/2G fallback options. In addition to VoLTE support, the LE910Cx series are swappable with other modules in the xE910 mPCIe family.

Key Benefits

- Standard Mini PCIe Data-card form factor
- Best-in class 3GPP rel10 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
- Over-the-Air firmware update

Family Concept

Longevity and cost efficiency are built right into the developer'sproduct 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 mPICe 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.

IoT Connectivity 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. Telit Cinterion Portal-ready modules powered by deviceWISE make application-level data flows and controls simple to program, maintain and improve.

Variants

- Cat.4 and Cat.1 4G North American market - AT&T, Verizon and T-Mobile

- Cat.4 and Cat.1 4G with 3G fallback for APAC, optimized for the ANZ region and Japan

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

- Cat.4 and Cat.1 4G for Latam market with 3G/2G fallback

AVAILABLE FOR

EMEA
North America
Latin America
LATAM

LE910Cx Mini PCIe Series Linux

Variants

	LE910C1/C4-EU	LE910C1/C4-NF/-NFD	LE910C1-LA	LE910C4-IN/LE90C1-IN
Market	EMEA	North America (Public safety, AT&T, FirstNet, T-Mobile, Verizon + Canada)	LATAM	India
Frequencies				
4G bands (MHz)	B1, B3, B7, B8, B20, B28A	B2, B4, B5, B12 B13, B14, B66, B71	B1, B2, B3, B4, B5 B7, B28	B1, B3,B5, B8, B40,B41
3G bands (MHz)	B1, B3, B8	B2, B4, B5	B1, B2, B4, B5	-
2G bands (MHz)	B3,B8		B2, B3, B5, B8	B3,B8
Voice	VoLTE/3G/2G	VoLTE/3G (only -NF version)	VoLTE/3G/2G	-

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 3GPP TS 51.014
- OMA-DM Telit Cinterion Software Management
- Simultaneous support of GPS, Glonass, Bei-dou, Galileo, QZSS

Hardware and Electrical Specifications

- Dimensions 51x 30 x 3.2mm (version with SIM holder 4.6 mm)
- 52-pin LGA interface
- 10 I/O ports (@1.8V) including multifunctional I/Os
- USB 2.0 HS / HSIC
- UART
- PCM
- 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: 3.3 VDC
  - Range: 3.1 - 3.6 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

DC-HSPA+ 42 Mbps (supported on the variants with 3G fallback)

Approvals

- FCC /IC, PTCRB , GCF (North America)
- RCM (Australia)
- JRL/JTBL(Japan)
- RED/GCF (Europe)
- CCC (China)

QUESTIONS? VISIT WWW.TELIT.COM/CONTACT-US

Like Us on Facebook Follow Us on LinkedIn Follow Us on X Subscribe to Our Channel

[07.2025]

Telit Cinterion reserves all rights to this document and the information contained herein. Products, names, logos and designs described herein may in whole or in part be subject to intellectual property rights. The information contained herein is provided "as is." No warranty of any kind, either express or implied, is made in relation to the accuracy, reliability, fitness for a particular purpose or content of this document. This document may be revised by Telit Cinterion at any time. For most recent documents, please visit www.telit.com.

Copyright © 2025, Telit Cinterion