

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'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.

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
- Japan
- LATAM
- Australia



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Variants

	LE910C1-NA	LE910C1-NAD	LE910C1/C4-AP	LE910C1/C4-EU	LE910C1/C4-NF	LE910C1/C4-NFD	LE910C1-SA	LE910C1-SAD	LE910C1-SV	LE910C1/C4-LA	LE910C4-CN
Market	North America (AT&T)	North America (AT&T)	APAC (Telstra/NTT/KDDI/SB)	EMEA	North America (Public safety, AT&T, FirstNet, T-Mobile, Verizon + Canada)	North America (Public safety, AT&T, FirstNet, T-Mobile, Verizon + Canada)	North America (FirstNet, AT&T)	North America (FirstNet, AT&T)	North America (VZW)	LATAM	China, India
Frequencies											
4G bands (MHz)	B2, B4, B12	B2, B4, B12	B1, B3, B5, B8, B9, B18, B19, B26, B28	B1, B3, B7, B8, B20, B28A	B2, B4, B5, B12, B13, B14, B66, B71	B2, B4, B5, B12, B13, B14, B66, B71	B2, B4, B12, B14, B66	B2, B4, B12, B14, B66	B4, B13	B1, B2, B3, B4, B5, B7, B28	B1, B3, B5, B8 TDD: B38, B39, B40, B41, TD-SCDMA: B34, B39
3G bands (MHz)	B1, B2, B4, B5, B8	B1, B2, B4, B5, B8	B1, B5, B6, B8, B19	B1, B3, B8	B2, B4, B5	B2, B4, B5	-	-	-	B1, B2, B4, B5	B1, B8
2G bands (MHz)	B2, B3, B5, B8,	B2, B3, B5, B8,		B3, B8						B2, B3, B5, B8	B3, B8
Voice	VoLTE/3G/2G	-	VoLTE/3G	VoLTE/3G/2G	VoLTE/3G	-	VoLTE	-	VoLTE	VoLTE/3G/2G	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)

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