xE910 Mini PCIe

Product Description
The xE910 Mini PCIe data-card is a product series available in three different technologies: LTE, HSPA+, providing connected device makers maximum range of options for Global cellular operator support.

It is particularly well-suited for devices with high throughput requirements such as mobile computing, kiosks, PDAs, e-readers, tablet PCs, and consumer electronics in general.

Key Benefits
- Standard Mini PCIe Data-card form factor
- LTE technology interchangeable with HSPA+ or EV-DO counterpart
- Ideally suited for devices such as PDAs, mobile resource management (MRM), logistics, POS terminals, trackers, wireless backup for DSL modems and gateways
- Rx diversity which allows the end-device to be equipped with two distinct cellular antennas improving the quality and reliability of the wireless connectivity
- Over-the-Air firmware update
- Battery-friendly 1.8V GPIO

Family Concept
The mini PCIe form factor has become a popular standard adopted by connected device manufacturers to easily integrate wireless connectivity into their devices for commercial and industrial computer markets.

IoT Connectivity Ready
This product is capable of supporting the extensive suite of IoT Connectivity value-added services and connectivity you can use to enhance your application and boost your competitive advantage.

**AVAILABLE FOR**
- EMEA
- North America
- Latin America
- APAC
- Korea
- Australia

**Combine your Cellular module with**
Short Range modules

**Complete, Ready to Use Access to the Internet of Things**

ENABLING THE IOT IS WHAT WE DO.
LE910 V2 Mini PCIe

Product Features

Supported frequencies:
- EU variant (European):
  - LTE: 800 (B20) / 900 (B8) / 1800 (B3) / 2100 (B8)
  - UMTS / HSPA: 900, 2100 MHz
  - GSM / GPRS / EDGE: 900, 1800 MHz
- NA variant (North America - AT&T):
  - LTE: 700 (B17/B12/B13) / 850 (B5) / AWS1700 (B4) / 1900 (B2)
  - UMTS / HSPA: 850, 1900 MHz
- AU variant (Australian):
  - LTE: 700 (B28) / 800 (B3) / 2600 (B7)
- LTE FDD Cat.4, 3GPP release 9 compliant
- Rx Diversity and MIMO DL 2x2
- SIM application Tool Kit 3GPP TS 51.014
- Serial port multiplexer 3GPP TS27.010
- SMS over IMS
- Built in UDP/TCP/FTP/SMT stack
- Control via AT commands according to 3GPP TS 27.085, 27.007 and Telit Custom AT commands

Data
- LTE Cat.4
- Uplink up to 50 Mbps
- Downlink up to 150 Mbps
- DC-HSPA+ 42 Mbps (Supported on the variants with 3G fallback)

Electrical & Sensitivity
- Output power:
  - Class 3 (0.2 W, 23 dBm) eLTE
  - Class 1 (0.2 W, 23 dBm) eLTE
- Supply voltage: 3.3 VDC +/- 9%

Environmental
- Dimensions:
  - 51 x 30 x 3.2 mm
  - 51 x 30 x 4.8 mm (with optional Sim-holder)
- Weight: 10 grams
- Temperature range: -40 to +85°C
- REACH and RoHS compliant

Interfaces
- USB 2.0 HS
- USIM/SIM connection
  - class B and class C
- SIM holder (option)
- DVI (Digital Voice Interface through the 52 pin edge connector)
- Wake
- W_DISABLE
- Led_wwan

HE910 Mini PCIe

Product Features

- Supported frequencies:
  - GSM / GPRS / EDGE: 850, 900, 1800, 1900
  - UMTS / HSPA: 800 / 850*, 900, AWS 1700, 1900, 2100 MHz
  * Bands B6 and B19 (800 MHz) are a subset of B5 (850 MHz) and supported as well.
- Optional high sensitivity GPS / A-GPS receiver (SUPL 1.0)
- Rx Diversity
- 3GPP release 7 compliant
- SIM application Tool Kits 3GPP TS 51.014
- Built in UDP/TCP/FTP/SMT stack
- IP stack with TCP and UDP protocol
- Standard and extended AT command set
- Available variants:
  - Voice, Data and GPS
  - Data-Only

Data
- HSPA category 6 in uplink and up to category 14 in downlink
- Uplink up to 5.76 Mbps
- Downlink up to 21.0 Mbps

Electrical & Sensitivity
- Output power:
  - Class 4 (2 W, 33 dBm)
  - Class 1 (1 W, 30 dBm)
- Output power:
  - Class 3 (0.25 W, 24 dBm)
  - Class 2 (0.5 W, 27 dBm)
  - Class 1 (0.2 W, 23 dBm)
- Supply voltage: 3.3 VDC +/- 9%
- Sensitivity
  - -108 dBm @ UMTS
  - -107 dBm @ GSM 850 / 900 MHz
  - -106 dBm @ DCS1800 / PCS1900 MHz

Environmental
- Dimensions:
  - 51 x 30 x 3.2 mm
  - 51 x 30 x 4.8 mm (with optional Sim-holder)
- Weight: 10 grams
- Temperature range: -40 to +85°C
- REACH and RoHS compliant

Interfaces
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