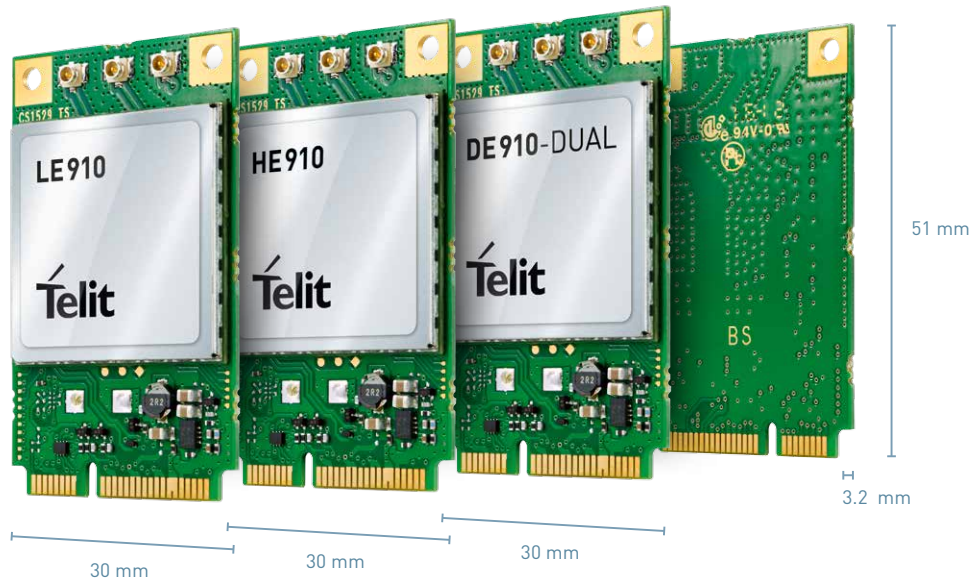


**xE 910 Mini PCIe**

**CDMA | 1x EV-DO Rev.A**

**UMTS | HSPA+ 21.0/5.76**

**LTE 100/50 | DC-HSPA+ 42.0/5.76** M.2 Data Cards



**Product Description**

The xE910 Mini PCIe data-card is a product series available in three different technologies: LTE, HSPA+ and EV-DO, 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.

**Telit m2mLOCATE**

This product supports m2mLOCATE, a Telit cloud-based service that provides a device's position based on observed cellular Cell-IDs. Accessing a database of over 40 million cell-IDs globally, m2mLOCATE can provide a position for every use-case including indoors/underground, outdoors, and boundary situations.



**m2mAIR Ready**

This product is capable of supporting the extensive suite of m2mAIR 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
- GNSS modules

[www.telit.com](http://www.telit.com)

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



**Telit Modules + m2mAIR Mobile Value-Added Services including Connectivity**



**ONE STOP. ONE SHOP. NOW, INNOVATE!**



## LE910 Mini PCIe

### Product features

Supported frequencies:

- EUG variant (European)
  - LTE: 800 (B20) / 1800 (B3) / 2600 (B7)
  - UMTS | HSPA: 900, 2100 MHz
- NAG variant (NA market – AT&T)
  - LTE: 700 (B17) / 850 (B5) / AWS1700 (B4) / 1900 (B2)
  - UMTS | HSPA: 850, 1900 MHz
  - GSM | GPRS | EDGE: 850, 1900 MHz
- NVG variant (NA market - Verizon)
  - LTE: 700 (B13) / AWS1700 (B4)
  - UMTS | HSPA: 850, 1900 MHz
- Embedded GPS | GLONASS receiver
- Rx Diversity and MIMO 2x2
- 3GPP release 9 compliant
- SIM application Tool Kits 3GPP TS 51.014
- Built in UDP / TCP / FTP / SMTP stack
- IP stack with TCP and UDP protocol
- Standard and extended AT command set

### Data

LTE cat.3

- Uplink up to 50 Mbps
- Downlink up to 100 Mbps

HSPA+

- Uplink up to 5.76 Mbps
- Downlink up to 42 Mbps

### Electrical & Sensitivity

- Output power
  - Class 4 [2 W, 33 dBm] @ GSM 850 / 900
  - Class 1 [1 W, 30 dBm] @ GSM 1800/1900
  - Class E2 [0.5 W, 27 dBm] @ EDGE 850 / 900
  - Class E2 [0.4 W, 26 dBm] @ EDGE 1800/1900
  - Class 3 [0.25 W, 24 dBm] @ UMTS
  - Class 3 [0.2 W, 23 dBm] @ LTE
- Supply voltage: 3.3 VDC +/- 9%

## 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/SMTP 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] @ GSM 850 / 900
  - Class 1 [1 W, 30 dBm] @ GSM 1800/1900
  - Class 3 [0.25 W, 24 dBm] @ UMTS
  - Class E2 [0.5 W, 27 dBm] @ EDGE 850 / 900
  - Class E2 [0.4 W, 26 dBm] @ EDGE 1800/1900
- Supply voltage: 3.3 VDC +/- 9%
- Sensitivity
  - 108 dBm @ UMTS
  - 107 dBm @ GSM 850 / 900 MHz
  - 106 dBm @ DCS1800 / PCS1900 MHz

## DE910 Mini PCIe

### Product features

- Dual-band EV-DO Rev.A 800 / 1900 MHz
- Dual-mode GPS (standalone and gpsOne®) and GLONASS
- Standard and Telit Unified AT command sets
- RX diversity for increased performance
- Built in UDP/TCP/IP stack
- Full voice support includes
- 2-way SMS support

### Data

- CDMA 1xRTT / EV-DO Rev. A
- Air interface IS-95A/B and CDMA 2000
- 1x EVDO (Rev. A) data up to 3.1 Mbps
- Downlink and 1.8 Mbps Uplink

### Electrical & Sensitivity

- Supply voltage: 3.3 VDC +/- 9%
- Sensitivity:
  - CDMA 1x: < -108 dBm
  - 1x EV-DO: < -109 dBm
- Maximum RF output power:
  - 24 dBm [typical] for EVDO
  - 24.4 dBm [typical] for 1x

## 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



## Join the Telit Technical Forum

For a quicker and more rewarding integration experience join the Telit Technical Forum. There you can browse the first open forum covering all m2m topics, get direct support by region (EMEA, North America, Latin America, APAC), take part in this quickly growing m2m community and exchange experiences.