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CDMA | 1 x EV-D0 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 -frinedly 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 m2mL0CATE

This product supports m2mLOCATE, a Telit cloud-based service that provides a device's position based on observed cellular Cell-IDs. Access-

ing a database of over 40 million cell-IDs globally, m2mLO-CATE 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



• GNSS JF2 modules

www.telit.com

Complete, Ready to Use Access to the Internet of Things



Telit Modules + m2mAIR Value-Added Services including Connectivity





ONE STOP. ONE SHOP. NOW, INNOVATE!



● 🛛 LE 910 Mini PCle

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 Mbpsps

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 22 (0.4 W, 26 dBm) @ EDGE 1800/190
 - Class 3 (0.25 W, 24 dBm) @ OMT - Class 3 (0.2 W, 23 dBm) @ LTE
- Supply voltage: 3.3 VDC +/- 9%

Environmental

• Dimensions:

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- 51 x 30 x 3.2 mm
- 51 x 30 x 4.8 mm (with optional sim-holder)

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• Weight: 10 grams

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• Temperature range -40 to +85°C

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• REACH and RoHS compliant

•• HE 910 Mini PCle

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%
- Supply vollage:
 Sensitivity
- -108 dBm @ UMTS
- -108 UBIN @ UMIS
- -107 dBm @ GSM 850 / 900 MHz -106 dBm @ DCS1800 / PCS1900 MHz
- -106 dBm @ DCS1800 / PCS1900 MHz

•• DE 910 Mini PCle

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-D0: < -109 dBm
- Maximum RF output power: - 24 dBm [typical] for EVD0
 - 24.4 dBm [typical] for 1x

Join the Telit Technical Forum

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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.

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- Interfaces
- USB 2.0 HS
- USIM/SIM connection class B and class C

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- SIM holder (option)
- DVI (Digital Voice Interface through the 52 pin edge connector)
- Wake
- W_Disable • Led_wwan