

FE910C04 mPCIe

5G Rel17 + LTE Cat 4



ProductDescription

The FE910C04 mPCIe enables 5G mid-speed connectivity relying on the latest 3GPP Release 17 Redcap technology. The rugged design levels up performance and efficiency, providing resilient and future-proof 5G connectivity for the most demanding IoT applications.

Key Benefits

- Global SKUs for full design flexibility and longevity with 5G technology
- Embedded processing and complete support for connectivity activation and OneEdge™, powered by Telit Cinterion
- Security by design, securing devices and device-to-cloud
- Improved operational efficiency and precise GNSS positioning with support for L1 and L5 frequencies and a dedicated antenna port.
- Linux OpenWRT based for optimal embedded router development
- Applications:
 - Video surveillance and monitoring
 - Industrial Routers and Gateways
 - EV Charging infrastructure
 - Machine Telematics

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.

Connectivity Solutions

NExT™ powered by Telit Cinterion is a cloud native core network. Telit Cinterion is a full tier 1 MVNO, enabling new and enhanced turnkey connectivity solutions and device management services. With this IoT network, you can deploy powerful, intelligent Global roaming with multi-IMSI and localization capabilities (eUICC) on more than 600 mobile carriers in 200+ countries in 2G/3G/4G/ CAT-M/NB-IoT & 5G. The NExTPro our Connectivity Management Portal provides full visibility, monitoring & analytics.

In addition, Telit Cinterion offers Connectivity Activation, a remote SIM provisioning service that leverages latest eSIM technology to simplify and optimize connectivity provisioning and M(V)NO selection. Connectivity Activation digitalizes SIM provisioning and makes the IoT journey seamless and efficient for your devices, from the factory to the last day of operation.

AVAILABLE FOR

Worldwide



FE910C04 mPCIe

Variants

FE910C04-WWD	
Market	Worldwide
5G FR1	n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n30, n38, n40, n41, n48, n66, n70, n71, n77, n78, n79
LTE	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B30, B34, B38, B39, B40, B41, B42, B43, B48, B66, B70, B71, B106
eSIM/iSIM	Optional eSIM
Voice	No
GNSS	L1 + L5

Product Features

- 5G Sub.6 FDD and TDD operation in 5G NR Standalone
 - DL: 223 Mbps
 - UL: 123 Mbps
- LTE Cat 4
 - DL: 200 Mbps
 - UL: 105 Mbps
- Rx Diversity and MIMO DL 2x2
- VoLTE/VoNR (FE910C04-WW and FE910C04-NA) or data-only (FE910C04-WWD and FE910C04-NAD)
- SMS over IMS
- Built in UDP/TCP/FTP/SMTP stack
- IPv4/IPv6 Stack
- Fast Shutdown
- Control via AT commands according to 3GPP
- TS 27.005, 27.007 and Telit Custom AT Commands
- SIM application Tool Kit 3GPP TS 51.014
- OMA-DM Telit Software Management
- Simultaneous support for GPS, GLONASS, Beidou, Galileo, QZSS

Hardware and Electrical Specifications

- Dimensions: 51 x 30 x 3.6 mm
- USB 2.0 HS / HSIC interface up to 480 Mbps
- PCIe Gen2.0, also for external WiFi/BT connectivity
- Serial/peripheral interfaces: SPI
- GPIOs
- 2x Dual voltage 1.8/3V USIM interfaces
- Optional eSIM
- RF pad, RX Div. & MIMO pad
- GNSS antenna pad
- Industrial: Temperature Range -40°C to +85°C
- Supply Voltage Range: 3.4 - 4.2V

Drivers

- Drivers for Windows® 11
- Drivers for Linux
- Android RIL

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