FE910C04

5G Rel17 + LTE Cat 4

Product Description

The FE910C04 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 and regional 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 prcise 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

The FE910C04 is a member of Telit Cinterion's flagship xE910 module family. It delivers 5G NR radio access technology in the 28.2 x 28.2 x 2.2 mm family form factor.

The xE910 unified form factor family comprises products that include:

- 2G
- 3G
- 4G

They share a common form factor and electrical and programming interfaces. These features allow developers to implement a "design once, use anywhere" strategy.

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.

FE910C04

Variants	FE910C04-WW	FE910C04-NA
Market	Worldwide	North America
5G FR1	n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n30, n38, n40, n41, n48, n53, n66, n70, n71, n77, n78, n79	n2, n5, n7, n12, n14, n17, n25, n30, n38, n41, n48, n53, n66, n70, n71, n77, n78
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, B71	B2, B4, B5, B7, B12, B13, B14, B17, B25, B26, B30, B38, B40, B41, B41, B42, B43, B48, B66, B71
eSIM/iSIM	Optional eSIM	Optional eSIM
Voice	Yes	Yes
GNSS	L1 + L5	L1 + L5

Product Features

- 5G Sub.6 FDD and TDD operation in 5G NR Standalone
  - DL: 220 Mbps
  - UL: 100 Mbps
- LTE Cat 4
  - DL: 150 Mbps
  - UL: 50 Mbps
- Rx Diversity and MIMO DL 2x2
- VolTE/VoNR Support
- 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: 28.2 x 28.2 x 2.2 mm
- 181-pin LGA interface
- USB 2.0 HS / HSIC interface up to 480 Mbps
- PCIe Gen2.0, also for external WiFi/BT connectivity
- SGMII for external ethernet transceiver
- Serial/peripheral interfaces - SPI, I2C, UART
- Audio interface - I2S/PCM
- 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 - 4.2VWeight: 5g

Drivers

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

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