

mPLS63 Series

LTE Cat 1



Product Description

The Telit Cinterion® mPLS63-W IoT Modem Card simplifies global cellular IoT connectivity delivering instant access to IoT-optimized LTE Cat.1 networks with 3G/2G fallback from a single SKU. The device offers IoT optimized speeds of 10Mbit/s download and 5Mbit/s uplink and it's extremely easy to integrate by simply plugging into a Mini PCIe™ express slot. It's ideal for IoT applications that benefit from efficient, long life connectivity and easy integration such as vending machines, point of sales, transportation solutions and industrial automation.

Key Benefits

The Telit Cinterion mPLS63-W IoT Modem Card offers global cellular connectivity from a simple, plug-and-play device that delivers 18 Band LTE Cat.1, Eight Band 3G HSPA/UMTS, and Quad-Band GSM. The feature-loaded card comes in a Mini PCIe™ format and includes integrated IP connectivity, voice over LTE (VoLTE), circuit switched voice, and a comprehensive AT command set for simplified device control. A dual SIM interface, onboard SIM card holder, and optional eSIM strengthens security, reduces deployment complexity and simplifies logistics providing MNO flexibility in the field with easy remote provisioning and dynamic subscription management. This along with optional embedded processing and Integrated GNSS support (GPS/BeiDou/Galileo/GLONASS) helps to lower Total Cost of Ownership (TCO.) What's more, advanced security features including a secure boot, secure key storage, and key lifecycle management protect data and devices. Housed in a rugged, compact 50.95mm x 30.00mm x 4.70mm mPCIe form factor, the modem card supports plug and play deployment and easy migration from 2G and 3G through to LTE. This greatly improves implementation agility and simplifies evolution as technology needs change. All Telit Cinterion IoT connectivity solutions integrate seamlessly with the Telit Cinterion IoT Suite offering OTA software updates and lifecycle management, trusted digital identity management and secure cloud interworking, plus zero-touch connectivity activation. Additionally, they all come with global customer support, FullType Approval (FTA), and mobile network operator certification to support a fast time to market.

eSIM simplifies and secures IoT connectivity

An optional embedded eSIM together with subscription management reduces total TCO by easing integration, ensuring in-field flexibility on connectivity, and by simplifying manufacturing and logistics.

AVAILABLE FOR
Worldwide

Efficiency, reliability and anytime, anywhere connectivity

An advanced power management system delivers efficiency while ensuring always on, 24/7 connectivity. Based on the mature LTE technology, the module ensures global reliability with fallback to 3G/2G if needed.



State of the art security suite protects devices and data

The secure boot feature protects the integrity of the firmware and guards against attacks and unauthorized firmware loading. The advanced key management platform not only secures key storage but also enables easy enrollment towards main cloud platforms. Moreover, the support for Telit Cinterion IoT Suite allows remote update, device and connectivity management.

Connectivity Solutions

NEX™ 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 NEXPro management tool 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.

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Product Features

- 3GPP Rel.10 Compliant Protocol Stack
- FDD-LTE: bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 18, 19, 20, 26, 28, 66
- TD-LTE: bands 38, 40, 41
- UMTS (WCDMA/FDD): bands 1, 2, 3, 4, 5, 6, 8, 19
- Quad Band GSM: 850, 900, 1800, 1900 MHz
- Integrated GNSS support (GPS/BeiDou/GLONASS/Galileo)
- SIM Application Toolkit, letter classes b, c, e with BIP and RunAT support
- Control via standardized and extended AT commands (Hayes, TS 27.007 and 27.005)
- Embedded IP stack with IPv4 and IPv6 support
- TCP/IP stack access via AT command and transparent TCP/UDP services
- Secure Connection with TLS/DTLS
- Internet Services TCP/UDP server/client, DNS, Ping, HTTP, SMTP, FTP client
- Supply voltage range: 3.0 - 4.5 V
- Dimension: 50.95 x 30.00 x 4.70 mm
- Operating temperature: -40°C to +85°C
- Data and Voice

Specifications

- FDD-LTE Cat.1
DL: max. 10.2 Mbps, UL: max. 5.2 Mbps
- HSPA+ Cat.8 data rates
DL: max. 7.2 Mbps, UL: max. 5.76 Mbps
- E/GPRS Class 12
DL: max. 237 kbps, UL: max. 237 kbps
- SMS text and PDU mode support
- Multiple Operator VoLTE support, CSFB (circuit-switched fallback)
- High quality narrow and wideband voice support for a handset, headset and hands-free operation (HR, FR, EFR and AMR-WB)

Special Features

- USB Interface features a composite mode, compliant to Windows, Linux and Mac
- Firmware update via USB and ASC
- RLS Monitoring (Jamming detection)
- Informal Network Scan
- Cell ID based Location Support
- Module Services
- eSIM (optional)
- Embedded Processing (optional)
- NExT™ connectivity with external SIM, NExT™ embedded on -W
- Connectivity Activation remote SIM provisioning service

Approvals

- RED, GCF, FCC, PTCRB, IC, UL, CCC, IFETEL, UKCA, Anatel, JATE, TELEC
- AT&T (Firstnet), Verizon, Telstra, NTT Docomo, KDDI

Interfaces (52pin edge connector)

- USB 2.0, UART
- 4 GPIO lines
- 3FF UICC card holder (USIM IF#1)
- 2 Hirose 3mm U.FL onboard connectors for Main and RX-Diversity antennas
- GNSS
- Digital audio interface (PCM and I2S modes)

Drivers

- USB, MUX driver for Microsoft® Windows 7™, Microsoft® Windows 8™ and Microsoft® Windows 10™
- RIL Driver for Android
- Ofono for Linux

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