

EGX82-W

Efficient LTE Cat M1/NB1/NB2 Gateway



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Key Features

Based on the proven Cinterion EGX81 IoT Gateway, the next-generation plug-and-play Cinterion EGX82 IoT Gateway offers out-of-the-box worldwide Cat-M or NB-IoT connectivity with 2G fallback for legacy or new devices.

The new gateway adds support for USB and embedded processing via the Cinterion SDK and ThreadX. The cost-effective LTE gateway is ideal for remote maintenance and control, smart meters, smart cities, vending machines, agriculture, connected sensors and healthcare applications.

The IoT Gateway connects sensors and smart devices to the cloud, providing devices with Internet access combined with edge computing. The plug-and-play EGX82 provides reliable and efficient global coverage and is ideal for low-power applications.

Compact, cost-effective solution

The Cinterion EGX82 offers cost-effective LTE connectivity with data speeds of up to 300 kbps for applications that require cost-effective, efficient data transmission.

It is designed to operate in an extended temperature range of -30° to +75° C for industrial applications, and features a USB2.0 interface, power-over-USB, drivers for Windows® 10/11 and Linux distributions, as well as Trusted Identity for easy enrollment in public IoT clouds and an optional eSIM.

Sharing the same form factor as the EGX81, the EGX82 reduces time to market by simplifying integration, manufacturing and logistics for a wide range of use cases.

AVAILABLE FOR

Global



General Features

- LTE Cat. M1/NB1/NB2
 - FDD-LTE Bands for LTE Cat M1: 1, 2, 3, 4, 5, 8, 12, 13, 18, 19, 20, 25, 26, 27, 28, 66, 85
 - FDD-LTE Bands for LTE Cat NB1/NB2: 1, 2, 3, 4, 5, 8, 12, 13, 18, 19, 20, 25, 26, 28, 66, 71, 85
 - Quad-Band GSM: 850, 900, 1800 and 1900 MHz
 - Data only
- SIM Application Toolkit with BIP
- Control via standardized commands (Hayes, TS 27.007 and 27.005) and Gemalto M2M AT commands
- Embedded IPv4 and IPv6 TCP/IP stack access via AT command and transparent TCP/UDP services
- Internet Services: TCP server/client, UDP client, DNS, Ping, HTTP client, FTP client, MQTT client
- Secure Connection with TLS/DTLS
- Supply voltage range: 5 - 30 V Dimension: 80 x 55 x 23 mm (excluding connectors)
- Operating temperature: -30°C to +75°C
- Weight: 65g

Specifications

- LTE-M, NB-IoT with 2G fallback
 - 3GPP Rel.14 Compliant Protocol; Compliant to GSM phase 2/2+ 3GPP Release 99
 - E/GPRS Class 10
- LTE Cat. M1 Class 5(+20dBm ±2dB) for all supported LTE Cat. M1 bands
- LTE Cat. NB1/NB2 Class 5(+20dBm ±2dB) for all supported LTE Cat. NB1/NB2 bands
- LTE Cat. M1 (HD-FDD)
 - DL: max. 300kbps, UL: max. 1.1Mbps
- LTE NB1 (HD-FDD)
 - DL: max. 27kbps, UL: max. 63kbps
- LTE NB2 (HD-FDD)
 - DL: max. 124kbps, UL: max. 158kbpsMobile Station class B
- SMS support (via NAS, via GSM)

Approvals

- RED, CE, FCC, UKCA, IC, UL
 - GCF, PTCRB
- Local approvals and major MNO certifications
- REACH, RoHS and EuP compliant

Interfaces

- USB2.0
- Antenna Connector SMA (female)
- Mini-SIM card reader, 1.8V and 3.0V
- Plug-in power supply connector (6-pole Western jack)
- V.24 / V.28 RS-232 interface (D-sub-9-pole female socket) Operating status and Watchdog operation indication LED's

Drivers

- Windows® 10 and 11
- Linux®

Special features

- Firmware update via serial interface/USB
- Firmware update over-the-air via Cinterion IoT Suite
- Cinterion IoT Suite Trusted Identities for secure IoT cloud enrollment
- Power-over-USB
- Real time clock with alarm functionality
- Flexible mounting concept (DIN rail mounting,
 - C-rail mounting, Screw fixing, use of cable ties)
- Configurable hardware watchdog which allows to configure the gateway in e.g. always on mode.
- GNSS and Cellular operation under the same antenna

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