

# EGX81-W

LTE M, NB-IoT and 2G connectivity



## Key Features

The EGX81 gateway supports all LTE bands plus Quad Band GSM and it delivers a suite of MTC technologies including LTE Cat. M1, Cat. NB1 and Cat. NB2. Support for 3GPP Release 14 eliminates the need for hardware updates when technology needs evolve, which is especially important as 5G spreads worldwide. An efficient architecture provides the highest efficiency for a long life by leveraging revolutionary power class 5 (20 dBm) and efficient eDRX and PSM. State of the art security features protect the device and data with a secure boot, trusted identities pre-integrated in the root of the gateway, and secure key storage enabling trustful enrollment in cloud platforms.

An optional integrated eSIM strengthens security, simplifies manufacturing, and streamlines logistics while providing flexibility in the field with easy remote provisioning and dynamic subscription updates.

What's more, the EGX81 gateway is supported by IoT Suite Services, a platform that helps IoT fleet operators manage the connectivity, security, and software lifecycle of IoT solutions enabling business continuity and longer application lifespans. Additionally, a programmable hardware watchdog ensures reliable operation, and the unique incremental Firmware Over-the-Air (FOTA) implementation dramatically reduces the size of update binaries, thereby stretching battery life.

## Plug-and-play simplicity speeds up deployment

Simple and reliable plug-and-play cellular connectivity quickly connects industrial applications with very little integration or approval effort. It gives new implementers a cost-effective, easy way to bring IoT optimization to their enterprise.

## Incremental FOTA ensures power efficiency and longevity

Incremental Firmware Over The Air updates allow revision of only the portion of code that needs updating. This significantly reduces transmission time, power draw and throughput, which are all essential in preserving the investment in NB-IoT technology over the long life of IoT solutions.

## Optional eSIM simplifies and secures IoT connectivity

An embedded SIM strengthens security, authenticates devices, encrypts data and securely manages connections to cellular networks. It works seamlessly with Telit Cinterion's subscription management solution to maintain connectivity for the lifecycle of devices. All this simplifies integration, manufacturing and logistics and lowers TCO.

AVAILABLE FOR

Global



## General Features

- LTE Cat. M1/NB1/NB2
- FDD-LTE Bands 1, 2, 3, 4, 5, 8, 12, 13, 18, 19, 20, 25, 26, 27, 28, 66
- Quad-Band GSM: 850, 900, 1800 and 1900MHz Data only
- SIM Application Toolkit with BIP
- Control via standardized commands (Hayes, TS 27.007 and 27.005) and 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 endpoint/client, DNS, Ping, FTP client, HTTP client, MQTT client, and CoAP 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

- 3GPP Rel.14 Compliant Protocol
- Compliant to GSM phase 2/2+ 3GPP Rel. 99
- E/GPRS Class 10
- LTE Cat. M1 Class 5(+20dBm  $\pm$ 2dB) for all supported LTE Cat. M1 bands
- LTE Cat. NB1/NB2 Class 5(+20dBm  $\pm$ 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. 158kbps
- Mobile Station class B
- SMS support (via NAS, via GSM)

## Approvals

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

## Interfaces

- Mini - SIM card reader, 1.8V and 3.0V
- Plug - in power supply connector (6-pole Western jack @ EGX81 RS232 variant)
- V.24 / V.28 RS232 interface (D-sub 9-pole female socket) @ EGX81 RS232 variant)
- 6 pin header with RS485 interface, power and ignition/reset @ EGX81 RS485 variant
- Operating status and Watchdog operation indication LED's

## Special features

- IoT Suite Services: software updates, trusted identity
- Driver for Windows® 10 and 11
- Driver for Linux
- Firmware update via serial interface
- Real time clock with alarm functionality
- Flexible mounting concept (DIN rail mounting, C-rail mounting, Screw fixing, use of cable ties)
- Programmable hardware watchdog

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