# Cinterion® ELS62 IoT Module

LTE Cat.1bis with 2G fallback

# Cinterion® ELS62 Series

## LTE Cat.1bis single antenna with 2G fallback



## ELS62

### Multiple regional LTE coverage with 2G fallback

- LTE cat.1bis single antenna with latest network bands grouping
- VoLTE with CSFB

### State of the Art Secure Services

- Secure boot, secure mode, secure key store & secure communication
- Secure Credential preloading, handling & management
- Firmware encryption
- Disabled debug interface

### Easy migration from Cinterion 2G/3G/LTE cat.1 modules

- HW compatibility with Cinterion E Footprint Industrial class modules
- Cinterion AT commands for SW compatibility

### Easy Connectivity and Lifecycle Management

- eSIM & Connectivity Activation for fast, flexible installation + reliable connection
- Remote incremental update and device management

## Key Features:

### LTE Cat.1 Single Antenna module for flexible, future-proof and highly secure designs

The Cinterion ELS62 module with 2G fallback provides full design flexibility, fast time-to-market, and future proof technology ideal for security and alarm solutions, smart cities, and many more.

The single antenna design module enables device makers to take advantage of all LTE Cat.1bis advantages while fully benefitting from industry-leading quality, security and support expertise.

Utilizing the Cinterion Industrial form factor, the ELS62 series offers footprint compatibility with Cinterion IoT modules ranging from 2G to LTE. With seamless software and hardware compatibility for all variants with the Cinterion Industrial class module, the ELS62 greatly improves deployment agility and simplifies migration between technologies to help speed time to market.

## The safest solution in the market

Outstanding features of the ELS62 include secure boot, secure communication TLS 1.3/DTLS 1.2, secure mode and keystore, secure debug interfaces, firmware encryption, and secure credential preloading, handling & management. Cybersecurity consulting and support from design-in to production are available. We combine decades of industrial cellular module design and an unrivalled expertise with state-of-the-art technology to strengthen security, authenticate devices, encrypt data and manage connections to cellular networks.

## eSIM simplifies, secures IoT connectivity (optional)

An embedded SIM with Connectivity Activation securely manages connections to cellular networks for single antenna devices. It works seamlessly with subscription management solution to maintain connectivity for the entire lifecycle of devices. All of this simplifies integration, manufacturing and logistics to reduce TCO.
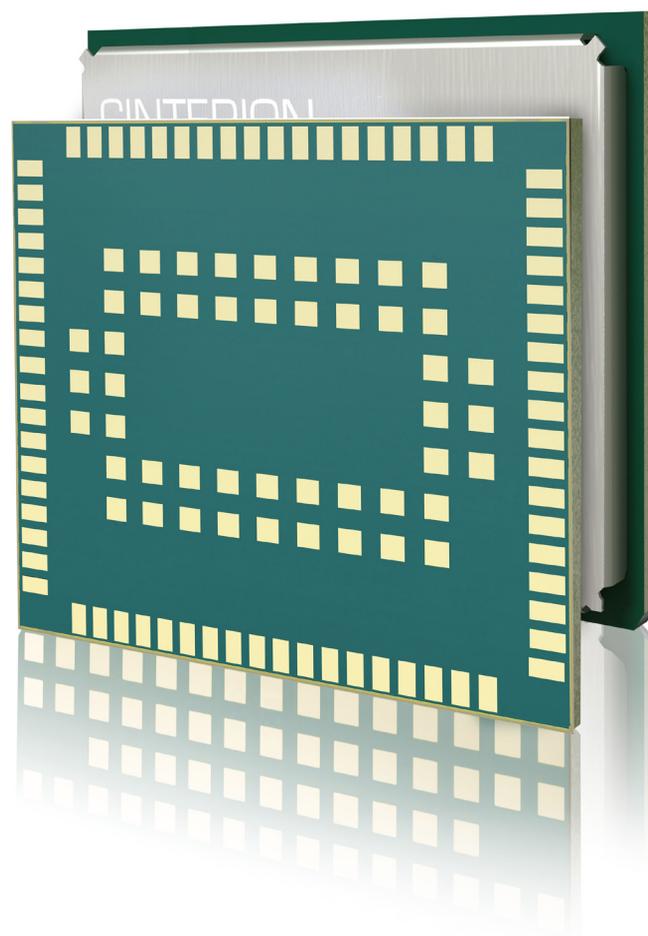
## Variants meet connectivity needs for different regions

| *Variant *Feature | ELS62-W | ELS62-E | ELS62-BR | ELS62-C | ELS62-I |
|---|---|---|---|---|---|
| Region | EMEA/LATAM/India | EMEA | Brazil | China | India |
| FDD-LTE Rel.13 | Band 1, 2, 3, 4, 5, 7, 8, 20, 28, 66 | Band 1, 3, 7, 8, 20, 28 | Band 1, 3, 5, 7, 8, 28 | Band 1, 3, 5, 8 | Band 1, 3, 5, 8, |
| TDD-LTE Rel.13 | Band 38, 40, 41 | N | N | Band 34, 38, 39, 40, 41 | Band 40, 41 |
| EGPRS rel.9 | 850, 900, 1800 and 1900 MHz | 900, 1800 MHz | 850, 900, 1800 and 1900 MHz | 900, 1800 MHz | 900, 1800 MHz |

# Cinterion® ELS62 Features

## General Features

- 3GPP Rel.13 Compliant Protocol
- Volte with CSFB
- LTE Cat.1bis
  DL: max. 10.2 Mbps, UL: max. 5.2 Mbps

## Approvals

- GCF, RED, UKCA, ROHS, RCM, Anatel, CCC, SRRC, NAL

## Interfaces

- 2 high-speed serial interfaces
- USB
- Digital Audio interface (PCM and I2S)
- Dual UICC/U/SIM card interface 3V/1.8V

(embedded SIM option)
- SPI, I2C, GPIO's

## Special Features

- Cinterion® IoT Suite Solutions:
  - Firmware Update Over the Air (OTA) with full or incremental packages
  - Connectivity Activation (eSIM)
- Embedded Processing with Cinterion IoT SDK
- Embedded IPv4 and IPv6 TCP/IP stack access via Cinterion AT command: TCP & UDP Server/Client, Ping, HTTP Client, FTP(s)/FTPES Client, MQTT Client
- Secure Connection with TLS 1.3 / DTLS 1.2
- Secure boot