

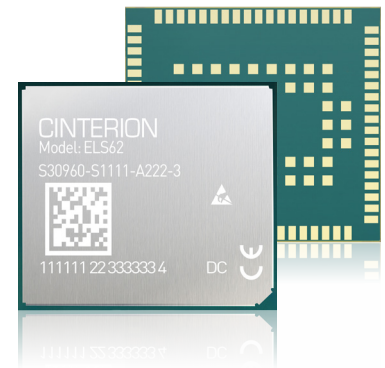
Cinterion® ELS62 IoT Module

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



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



State of the Art Secure Services

- Secure boot, secure mode, secure key store & secure communication
- Secure Credential preloading, handling & management
- Firmware & upgrade package encryption



Easy Connectivity and Lifecycle Management

- Secure enrollment into main cloud platforms including AWS IoT Core or Azure IoT Hub
- Remote incremental update and device management
- eSIM & Connectivity Activation for fast, flexible installation + reliable connection

Key Features:

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

The Thales 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 Thales' industry-leading quality, security and support expertise.

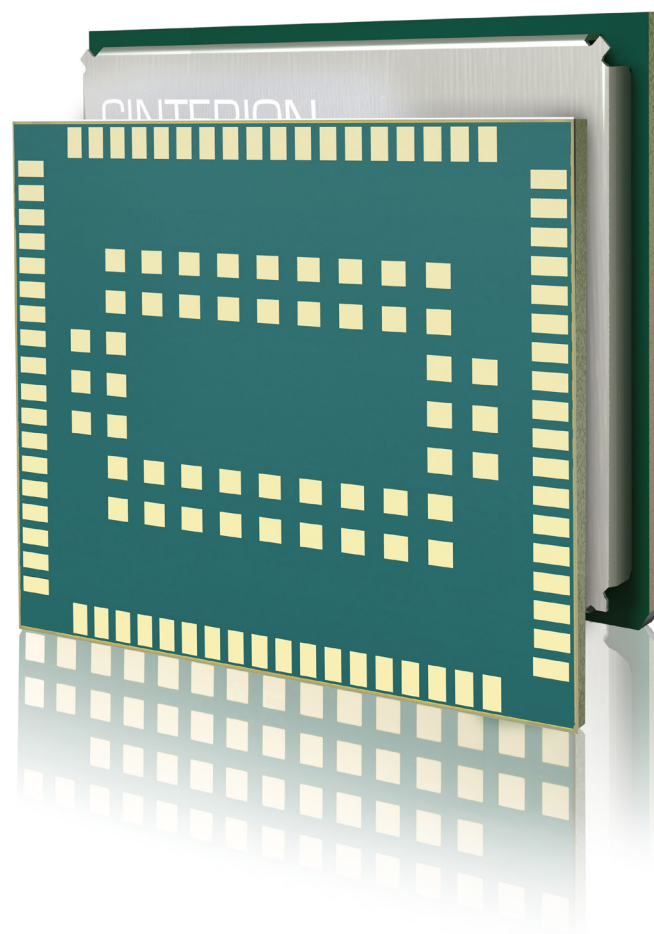
Utilizing the Cinterion Industrial form factor, the ELS62 series offers footprint compatibility with Cinterion IoT modules ranging from 2G to LTE. With seamless software and hardware compatibility for all variants with the Cinterion Industrial class module, the ELS62 greatly improves deployment agility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

Thales eSIM simplifies, secures IoT connectivity (optional)

An embedded Thales SIM with Connectivity Activation securely manages connections to cellular networks for single antenna devices. It works seamlessly with Thales' 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

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

Thales in IoT: Driving digital transformation with the power of the IoT

Thales delivers innovative IoT technology that simplifies and speeds enterprise digital transformation. For more than 20 years, our customers – in a wide range of industries - trust our IoT solutions to seamlessly connect and secure their IoT devices, maximise field insights, and accelerate their global business success.

Thales solutions:

- **Connect** assets to wireless networks and cloud platforms
- **Manage** the long lifecycle of IoT solutions
- **Secure** devices and their data
- **Analyse** real-time data transforming it into business intelligence that improves decision making

Our 360° approach provides the essential building blocks needed to simplify design, streamline development and accelerate time-to-market.

For more information, please visit www.thalesgroup.com/iot or follow @ThalesIoT on Twitter