

Cinterion® DGL61-W

LTE Cat. 1, 3G and 2G global connectivity out of the box



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DGL61-W



Global LTE Cat. 1

- 3GPP Cat. 1 with 3G and 2G fallback
- Single global SKU



Out-of-the-box connectivity

- USB 2.0 interface and USB-powered for quick and easy device integration
- Built-in antenna for simplest installation and best RF performance
- Type approved



Industrial-grade performance

- Rugged design, extended temperature range
- Long stable lifecycles



Flexible and customizable

- Embedded Thales eSIM option
- Custom firmware option
- Wall-mounting option for long-term device integration



Remote management

- Firmware over-the-air updates
- Remote configuration and diagnostics

The Cinterion® DGL61-W Device Gateway delivers the ultimate solution for future-proofing existing IoT applications that rely on cellular 2G or 3G connectivity. The IoT-optimized, industrial grade 4G USB dongle provides out of the box global LTE Cat. 1 with 3G and 2G fallback and it eliminates the need for fragile external antennas to achieve optimal performance. Simply connect the dongle via USB and instantly connect your industrial assets. With speeds of 10 Mb/s downlink and 5 Mb/s uplink, it is ideal for vending, kiosks, digital signage, payment terminals, ATMs and eHealth applications, including those that require video streaming.

Key Features

The Cinterion® DGL61-W Device Gateway supports twelve band LTE plus Quad Band GSM and multi band UMTS for global connectivity from a single product SKU. A USB 2.0 interface allows quick and easy device integration, and built in antenna simplify installation while providing superior RF performance. The gateway's ultra-rugged design, extended temperature range and power over USB supports stability, reliability and long life. The gateway is customizable with an optional Thales eSIM to strengthen security and simplify manufacturing and logistics. What's more, the DGL61 Device Gateway supports remote firmware over-the-air updates and connectivity diagnostics through the Cinterion® IoT Suite portal. It comes with Full Type and carrier approval plus expert Thales technical support for a speedy time to market.

Out of the box simplicity speeds installation

Simple and reliable USB LTE Cat 1 technology quickly connects industrial applications with very little integration or approval effort. It provides a fast and effective method to update legacy equipment providing a bridge to evolving technologies and capabilities for enterprise IoT optimization.

Unique FOTA ensures remote management and longevity

Firmware Over The Air updates allow remote configuration and diagnostics to keep the gateway up to date and extending the lifetime of the device.

Optional eSIM simplifies and secures IoT connectivity

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

Cinterion® DGL61-W Features

General Features

- Embedded TCP/IP stack with IPv4 and IPv6 support
- TCP/IP stack access via AT command and transparent
- TCP/UDP services
- Secure TCP/IP connectivity, new TSL/SSL engine (TSL1.2)
- Internet Services TCP/UDP server/client, DNS, Ping, HTTP, SMTP, FTP client
- Supply voltage range: 5V USB
- Dimensions: 114.5 x 73.5 x 19.5mm
- Operating temperature: -25°C to +65°C
- Integrated Antenna
- USB cable length: 200mm

Specifications

- 3GPP Rel.9 Compliant Protocol Stack
- Twelve Bands FDD-LTE: 700, 800, 850, 900, 1700/2100 (AWS), 1800, 1900, 2100, 2600 MHz (bands 1, 2, 3, 4, 5, 7, 8, 12, 18, 19, 20, 28)
- Seven Bands UMTS (WCDMA/FDD): 800, 850, 900, 1700/2100 (AWS), 1800, 1900 and 2100 MHz (bands 1, 2, 4, 5, 8, 9, 19)
- Quad Band GSM: 850, 900, 1800 and 1900 MHz
- SIM Application Toolkit, letter classes b, c, e with BIP and Run at support

Java Open Platform

- Java ME 3.2 embedded
- Extended Memory: 18 MB RAM, 30 MB Flash File System
- Multi-Threading programming and
- Multi-Application execution

Approvals

- RED, GCF, CE, FCC, PTCRB, IC, UL
- 3GPP operator approvals, e.g. AT&T
- RoHS, WEEE compliant

Interfaces

- Micro-SIM reader, 1,8V and 3,0V
- Component MIM prepared (optional)
- 4 operating status LED's
- USB (B) 2.0 HS (Power over USB)

Special Features

- Cinterion® IoT Suite Services: firmware updates
- Driver for Microsoft® 7™, 8™, 10™
- Driver for Linux
- Firmware Upgrade via USB and FOTA
- Flexible wall-mounting concept

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](https://twitter.com/ThalesIoT) on Twitter