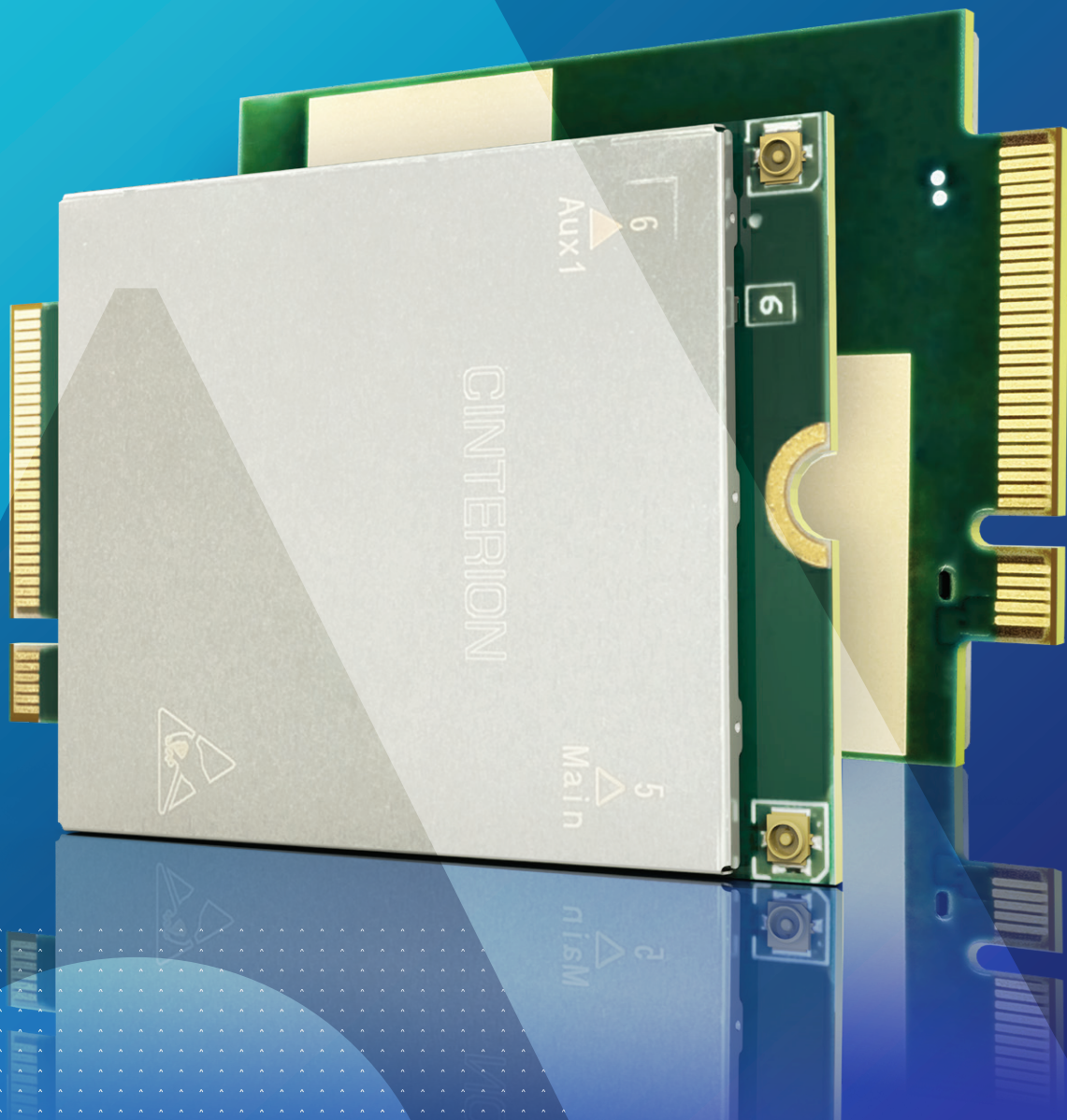


Global High Speed IoT

Cinterion[®] MLA31-W

LTE Advanced M.2 Modem Card



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Cinterion® MLA31-W

LTE Advanced M.2 Modem Card



Compact, flexible, future-proof

- | One global SKU for worldwide coverage
- | Compact size for design flexibility

Custom, Always-On Connectivity

- | Flexible SIM support: eSIM for maximum connectivity resilience
- | Simplifies integration, manufacturing and logistics

Key Features

With the proven Cinterion Industrial form factor, Thales' high speed LTE IoT module MLA31-W features LTE Category 9 Multi-mode with 3G fallback. It's designed to be compatible with other LTE and 5G Cinterion IoT M.2 modem cards and optimized for the most demanding high-speed applications. The latest in high speed LTE connectivity provides one global SKU for worldwide coverage, compact size, eSIM and reliable connectivity in a flexible form factor.

Compact, affordable solution

The Cinterion MLA31-W offers affordable LTE connectivity with data speeds up to 450 Mbps for applications requiring fast data speeds in a compact package and standard M.2 footprint. Ideal for routers, laptops and tablets, the MLA31-W comes with an embedded eSIM. Designed to operate in extended temperatures of -40° - +85° C for industrial applications, the LTE modem card features integrated GNSS (GPS/GLONASS/Beidou/Galileo), a USB 3.0 interface and driver support for Windows 10/11, Linux and Android.

General Features

- | LTE Advanced-Pro (3GPP Release 11)
 - FDD-LTE Bands: 1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 25, 26, 28, 29, 30, 66
 - TD-LTE Bands: 38, 39, 40, 41
 - FDD+TDD CA
- | UMTS/HSPA+ (3GPP Release 8):
 - FDD Bands: 1, 2, 4, 5, 8
- | Integrated GNSS: GPS, Glonass, Beidou, Galileo
- | 2x2 MIMO 3x CA
- | Flexible CA combinations
- | Supply voltage range 3.1-4.4V
- | M.2 single side
- | Compact: Size: 30mm x 42mm x 2.3 mm; Weight ~6g
- | Extended temperature range: -40°C to + 85°C

Specifications

- | LTE Cat.9
- | Max throughput:
 - DL: 450 Mbps
 - UL: 50 Mbps
- | HSPA+ Dual Carrier DL Cat. 24 / UL Cat. 6,
DL/UL max: 42 Mbps / 11 Mbps

Approvals

- | CE/RED, JATE/TELEC, GCF, UKCA
- | NTT Docomo / KDDI
- | Additional approvals on demand

Interfaces

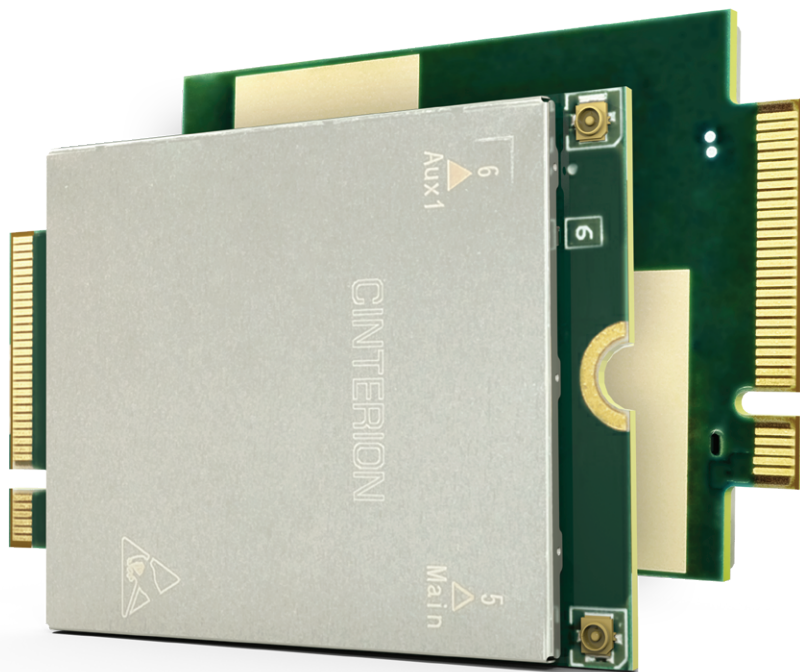
- | USB 2.0, 3.0
- | eSIM embedded inside
- | Antenna MAIN and AUX antenna interfaces

Drivers

- | Windows® 10 and 11
- | Linux®
- | Android*

Special Features

- | Dual SIM support with Dual-SIM Single Standby (DSSS)



Thales in IoT:

Driving digital transformation today and harnessing the power of 5G

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

Thales has unrivalled expertise in mastering complexities throughout the design process with strong support to help ensure your project runs smoothly. 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.