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M2M IoT Solutions and Services

Unleashing the Power
of the Internet of Things

Hardware

Wireless Module

Award winning **Cinterion M2M Modules and Terminals** enable **reliable and secure wireless connectivity** on all global mobile networks (2G, 3G to LTE). Offering in multiple variants with many capabilities including embedded processing, GPS and LGA, they come with Full Type Approval and Mobile Network Operator certification.

MIM or SIM Card

Building on Gemalto's successful SIM technology, **Cinterion Machine Identification Modules (MIMs)** identify M2M IoT devices on cellular networks, providing **security authentication** and ciphering information to keep data safe. They come in a variety of form factors, offer embedded software and enable over-the-air device management services.

Secure Element

Cinterion Secure Elements add a layer of **advanced digital security, embedded software** and **lifecycle management** ensuring that data is stored in a safe place and access is granted only to authorized applications and people.

Hardware

 Wireless Module

 MIM or SIM Card

 Secure Element

Gemalto Cinterion® M2M Hardware solutions are ruggedized for longevity, security and the extreme environmental conditions of industrial and automotive applications.

Connectivity

On-Demand Connectivity

QoS and MIM Services

The **On-Demand Connectivity** solution provides remote wireless **service provisioning** for any global mobile network from a single device design leveraging an embedded Universal SIM or MIM card. This greatly **simplifies manufacturing and distribution logistics** for connected devices and improves cost efficiency. It allows fully flexible mobile subscription management and updates throughout the device´s entire lifecycle.

The **MIM Service Platform** provides MNOs and their customers with value added services such as over-the-air device auditing, diagnostics and monitoring. It easily tracks the behavior of deployed MIMs across the lifespan of devices and improves **Quality of Service** by identifying potential issues such as fraud, memory saturation and network strain. This enables **real time maintenance** before problems arise.

Connectivity

On-Demand Connectivity

QoS and MIM Services

Gemalto Connectivity Management Services enable fast and easy wireless service provisioning, flexible subscription management, and device and network monitoring for the long life of M2M IoT solutions.

Application

Application Enablement (SL)	The cloud based **SensorLogic Application Enablement Platform** operates with any device and within all vertical markets. It allows organizations to rapidly build and deploy M2M software applications, **increasing time-to-market** at a fraction of the cost of other technology options.
SW Monetization	Gemalto's **Software Monetization** applications increase the profitability of M2M IoT solution intellectual property by packaging data, controlling access and monitoring rights with **software licensing and authorization management** solutions.

Application

☁️	**Application Enablement (SL)**
🔒	**SW Monetization**

Gemalto M2M Applications transform collected data into actionable intelligence that is used to drive better business outcomes and monetize information for various stakeholders and use cases.

Lifecycle

Gemalto's **Lifecycle Management Platforms** enable remote management of M2M IoT solutions to support devices that need to operate reliably for 10 to 15 years.
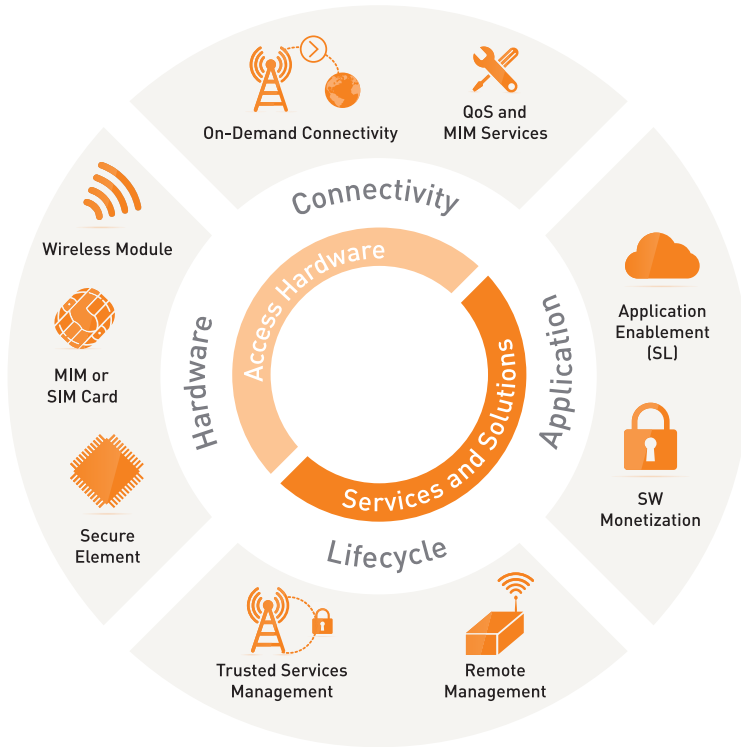
Trusted Services Management

Gemalto's **Trusted Service Hub (TSH)** allows M2M IoT stakeholders to send service and security updates quickly and efficiently across geographically dispersed devices across their lifecycle. The TSH can securely send updates to Secure Elements embedded in devices to provision and manage next generation services such as NFC-based virtual car keys.

Remote Management

Gemalto **Over-The-Air Services** are used to remotely manage connected devices once deployed in the field. This technology is a key element of all our M2M Solutions, ensuring **devices operate reliably over their entire lifespan**. New applications can be easily added (SensorLogic), networks subscriptions managed (On-Demand Connectivity) and licensing implemented (Software Monetization).

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Connectivity
- On-Demand Connectivity
- QoS and MIM Services

Hardware
- Wireless Module
- MIM or SIM Card
- Secure Element

Application
- Application Enablement (SL)
- SW Monetization

Lifecycle
- Trusted Services Management
- Remote Management

Access Hardware

Services and Solutions

Gemalto provides a **Virtuous Circle** for long life M2M IoT solutions enabling connectivity, digital security and a suite of support services for device and application management, in all vertical markets.

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For more information, please visit
www.gemalto.com/m2m, www.facebook.com/gemalto
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Gemalto M2M GmbH
St.-Martin-Str. 60
81541 Munich
Germany

(→) GEMALTO.COM/M2M