

OPTIGA™ Connect IoT

Turnkey eSIM solution for cellular-connected IoT devices

OPTIGA™ Connect IoT is a ready-to-connect embedded SIM (eSIM) solution for cellular IoT devices. This turnkey solution allows easy, secured and cost-optimized deployment and management of cellular-enabled IoT devices at scale. It comes with a pre-installed GSMA-compliant operating system and pre-integrated connectivity capabilities. Supported by our connectivity partner Tata Communications, this eSIM offers global cellular network coverage (2G, 3G, 4G, CAT-M and other LTE services) with a choice of 640+ networks across 200 countries and territories and an adjustable data plan. It has enough available memory to store up to ten operator profiles.

End-to-end connectivity management extending from design through manufacture to deployment reduces complexity, offers full visibility into IoT devices, and simplifies control. It addresses today's key pain points in connectivity management, namely interoperability across different vendors' GSMA subscription management platforms, local service deployment options, technical support, cost, and coverage.

All applications and regions have a single SKU, except for India that has a specific SKU.

OPTIGA™ Connect IoT is based on Infineon's best-in-class Common Criteria EAL5+ certified eSIM hardware, which is designed to exceed the security standards typically required by industry today. This adds an additional level of tamper resistance to these solutions, hardening them against physical attacks – which is especially important for devices that remain in the field for long periods of time. Data retention is crucial for that specific reason; our solution lasts for ten years.



Key features

- Reprogrammable eSIM
- Compliant with GSMA remote SIM provisioning specification SGP.02 v3.2
- ETSI TS102 221 and ETSI TS102 671 compliance
- MFF2 (QFN8) package (other packages on request)
- Supported interface: ISO7816- UART
- Voltage classes: A, B, C
- Industrial grade: -40 to +105°C
- Common Criteria EAL5+ certified hardware
- Single secured access point to remote data and unified connectivity management via partner portal and API

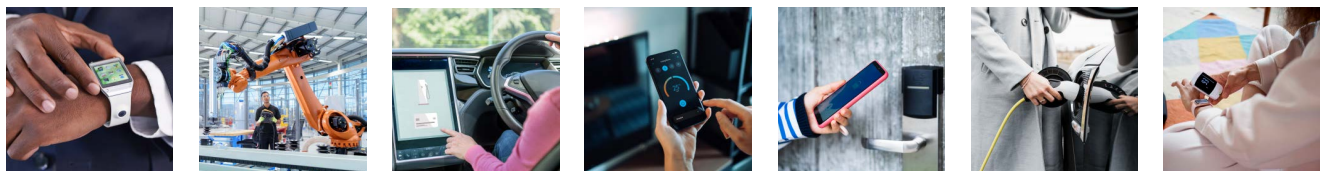
Key benefits

- Ready to connect with an onboarded bootstrap
- Cost-effective, pervasive (worldwide) and secured connectivity
- Easy deployment and management of cellular IoT at scale
- Simplified path to market
- Open for integration of additional applets
- Low power consumption

PRODUCT BRIEF

Key applications

Application	Focus area
Smart transportation	Cargo monitoring, fleet management
Smart city	Electric charging stations, smart parking, street lighting, video surveillance
Smart energy	Energy consumption, distribution, efficiency, smart metering
Smart manufacturing	Asset tracking, production optimization, remote management
Wearables	Body-worn cameras, fitness tracker, health monitoring, smart watch



Product summary

Type	Description	Temperature range [°C]	Package
OC2321	eSIM solution for cellular connected IoT devices (global coverage)	-40°C – +105	MFF2 (VQFN8)
OC2322	eSIM solution for cellular-connected IoT devices (Indian SKU)	-40°C – +105	MFF2 (VQFN8)
Sample kit OPTIGA™ Connect IoT KIT	5 pcs with 10 MB of connectivity (world-wide coverage)	-40°C – +105	MFF2 (VQFN8)

Tata Communications MOVE™

Building the perfect wireless strategy is simple with Tata Communications MOVE™ - Your industry's most intelligent and versatile connectivity platform.

MOVE revolutionizes the way top consumer and Internet of Things (IoT) brands introduce connected products to the market, offering a modular approach tailored to their unique business needs.

Experience the advantages of seamless 2G, 3G, 4G, and Private 5G / LTE services, rich data-insights, and carrier-grade security in over 200 countries and territories, all within a single contract.

MOVE provides a (bootstrap) profile for (e)SIM, featuring context aware technology that selects the most appropriate access network in any country based on desired business outcomes. Selection criteria could be based on the best coverage across multiple networks or the best price achievable by switching traffic between mobile networks. Additional roaming partners can be added by updating the SIM profile over the air (OTA). MOVE also supports the integration of existing MNO agreements (BYON).

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Warnings

Due to technical requirements, our products may contain dangerous substances. For information on the types in question, please contact your nearest Infineon Technologies office.

Except as otherwise explicitly approved by us in a written document signed by authorized representatives of Infineon Technologies, our products may not be used in any life-endangering applications, including but not limited to medical, nuclear, military, life-critical or any other applications where a failure of the product or any consequences of the use thereof can result in personal injury.



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