



Product brief

OPTIGA™ Connect IoT OC2321

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 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.

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.

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.

Key OPTIGA™ Connect IoT eSIM benefits

- › High-performance turnkey solution
- › Ready to connect with onboarded bootstrap
- › Global cellular coverage
- › Flexible connectivity services for IoT devices
- › Free choice of Mobile Network Operator (MNO)
- › Cost-effective, pervasive (worldwide) and secured connectivity
- › Easy deployment and management of cellular IoT at scale
- › Reduced complexity through interoperability and connectivity management
- › Simplified path to market
- › Single SKU for all applications and regions
- › Open for integration of additional applets
- › Low power consumption

Key features

- › Reprogrammable eSIM
- › Compliant with GSMA remote SIM provisioning specification SGP.02 v3.2
- › Support 2G, 3G, 4G, 5G LTE-M, NB IoT¹⁾
- › 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)
- › Data retention: 10 years
- › Common criteria EAL5+ certified hardware
- › Free memory available for storage of up to 10 operator profiles
- › Bootstrap connectivity with global cellular coverage (640+ networks, 200 countries/territories)
- › Unified connectivity management via online portal and API
- › Adjustable data plan
- › Single secured access point to remote data and connectivity management via partner portal

1) Note: NB IoT may limit the remote management capability of the product

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Key applications

Smart home	Security cameras, alarms, air conditioning, access control
Smart city	Security cameras, lighting, park sensors
Smart energy	Metering, storage, distribution
Industry automation	Factory automation, asset tracking
Wearables	Health monitoring

Product summary

Type	Description	Temperature range [°C]	Package
OC2321	eSIM solution for cellular-connected IoT devices	-40°C – +105 °C	MFF2 (VQFN8)
Sample kit OPTIGA™ Connect IoT KIT1	Includes 2 cards + 5 MFF2 with 10 MB of connectivity (worldwide coverage)	–	–

Tata Communications MOVE™ IoT Connect

Global IoT/M2M connectivity and bootstrap profiles for eSIM

Tata Communications provides IoT/M2M connectivity across 200 countries and their territories worldwide, thanks to its own partnerships and access agreements with 640+ mobile networks. Coverage is provided across 2G, 3G and 4G services, extending to 5G and LPWAN access networks in the future.

Tata Communications MOVE™ provides a (bootstrap) profile for (e) SIM, featuring smart technology that selects the most appropriate access network in any country depending on the requirements. 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). Tata Communications also supports the integration of existing MNO agreements concluded by OEMs. Regardless of whether OEMs are using Tata Communications' connectivity agreements or their own MNO partners, all connected services worldwide can be

managed during the various stages of the product lifecycle with Tata Communications' unified, vendor-agnostic platform and portal, delivering a 'single pane of glass'.

To offer an optimized, near-to-local user experience, Tata Communications has deployed a global virtualized mobile network core, combining local access with traffic handling by the nearest regional point-of-presence (PoP).

This IoT platform from Tata Communications also supports a suite of 150+ APIs for easy integration of third-party applications and connectivity management.

With Tata Communications MOVE™ IoT Connect, OEMs benefit from optimized traffic routing, near-local costs, a unified cloud management platform and total security from edge to cloud and back again.

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