PRODUCT BRIEF

OPTIGA™ Connect IoT OC2550

The smallest industrial eSIM solution for single-SKU deployment with open ecosystem flexibility and trusted reliability.

OPTIGA™ Connect IoT OC2550 is the smallest industrial eSIM solution that enables OEMs to deploy globally connected IoT devices with maximum flexibility, simplified operations and trusted industrial reliability. Through an open GSMA SGP.32-compliant ecosystem, customers can leverage a single hardware SKU worldwide, choose their preferred eIM platform and connectivity providers without vendor lock-in, and accelerate eSIM adoption through integrated IPAe functionality, available IPAd integration paths and pre-SGP.41 In-Factory Profile Provisioning support. Combined with industry-leading compact form factors, advanced low-power capabilities and Infineon's proven industrial-grade quality, OPTIGA™ Connect IoT OC2550 helps customers reduce deployment risk, streamline global operations and scale long-life IoT deployments with confidence.

Freedom of choice without vendor lock-in
Built on the open and interoperable GSMA SGP.22 and SGP.32 standards, the solution provides greater flexibility by supporting any compatible eIM platform, eliminating vendor lock-in and allowing customers to choose and change their preferred eIM provider, MNO, and connectivity orchestrator as business needs evolve. Proven interoperability with multiple eIM platforms, MNOs, and modems demonstrates our expertise in delivering truly vendor independent connectivity, providing customers with maximum flexibility and long-term freedom of choice.

Simplified global deployment
By leveraging a single hardware SKU for global use and supporting remote provisioning architectures with global profile download capabilities, OPTIGA™ Connect IoT OC2550 significantly reduces supply chain and operational complexity. This approach streamlines deployment, enabling faster, more flexible market entry without the need for region-specific hardware or complex local provisioning workflows.

Flexibility for initial profile loading
Streamline your eSIM adoption with our integrated IPAe and available LPAs/IPAd reference implementations, simplifying device-side integration and enabling a smooth migration from traditional SIMs. OPTIGA™ Connect IoT OC2550 supports flexible initial profile loading, allowing fleet managers to download the initial profile at the factory via IFPP, activation codes, or a direct SM-DP+ connection. This significantly reduces development effort and provides a faster, more agile path to market.

Key features

- Truly open eSIM, no eIM lock-in
- Global eSIM service interoperability
- GSMA SGP.32 and SGP.22 compliant
- 4G, LTE-M, NB-IoT, 5G networks
- Up to 300 kB free user memory
- Voltage classes: A (5 V), B (3 V), C (1.8 V)
- Fallback and emergency profile support
- Supports in-field OS patch function
- IPAd's reference code is available
- Packages: MFF2 (VQFN8), MFF3 (USON10), MFF4(USON8)
- Temperature range: -40°C to +105°C
- Data retention: 20 years

Key benefits

- Open eSIM ecosystem flexibility
- Simplified global deployment
- Includes IPAe for easier integration
- Low-power operation with suspend/resume
- Trusted industrial reliability
- Compact industrial design
- Extended device lifetime
- Tiniest industrial grade eSIM (2 x 2 mm)



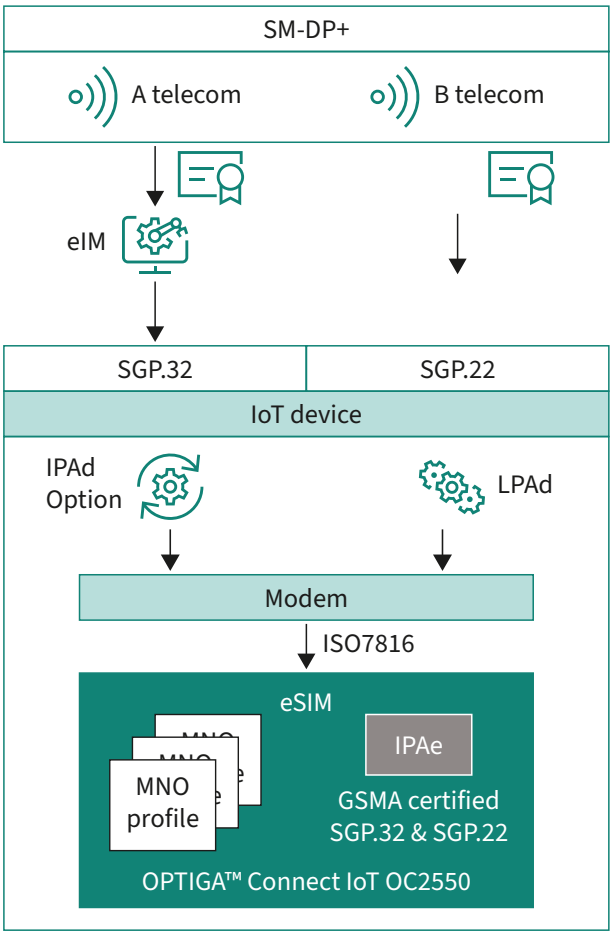
www.infineon.com/optiga-connect-iot-oc2550

Compact industrial design

Featuring a broad range of industrial package options, OPTIGA™ Connect IoT OC2550 is available in MFF2, MFF3 and MFF4 (ETSI TS 102 671) form factors to meet diverse design requirements. With the world's smallest industrial package at just 2 x 2 mm, it reduces PCB area up to 87% compared with MFF2 (5 x 6 mm), providing significant benefits for both highly space-constrained and standard industrial applications.
Its compact and flexible form factor maximizes layout freedom, enabling smaller, more efficient IoT devices while maintaining robust industrial performance.

Designed for long-term IoT deployments

Engineered for reliable long-term operation, our industrial-grade eSIM platform helps reduce deployment risk through Infineon's high quality standards. With a wide operating temperature range of -40°C to +105°C and 20-year data retention, your devices are built to perform reliably in demanding environments throughout their lifecycle.



Product variants and target markets

Product name	Package	Samples availability	SOP	Applications
OC2550-0310 VQFN8	MFF2/PG-VQFN-8-4 (5 x 6 x 0.9 mm)	Yes	Q1/2027	Smart grid/smart metering, POS terminals, trackers, industrial equipment, mobile routers, other IoT devices
OC2550-0310 USON10	MFF3/PG-USON-10-2 (3 x 3 x 0.6 mm)	Q1/2027	Q1/2027	
OC2550-0310 USON8	MFF4/PG-USON-8-6 (2 x 2 x 0.6 mm)	Yes	Q1/2027	

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