



# AnyNet Secure<sup>®</sup> Multi-IMSI SIM

A secure, scalable and resilient global cellular connectivity solution for IoT and M2M devices.



MFF2 Embedded SIM



2FF/3FF/4FF SIM Cards

Based on our unique AnyNet Secure<sup>®</sup> SIM technology, with configured multi-IMSI capability, we aim to deliver near 100% connectivity out-of-the-box. Our solution enables you to manufacture and deploy a single product SKU worldwide, massively reducing potential complexity in IoT developments and associated deployment costs.

AnyNet Secure delivers maximised 2G, 3G or 4G cellular coverage across GSM, LTE including CAT M networks, reinforced by our global MNO partnerships.

Furthermore, our SIM technology is pre-configured to operate with emerging technologies, such as 5G, to ensure your IoT implementation is future-proofed. You have the power to manage your devices from one single centralised management console located anywhere in the world. And with zero-touch management and security features, throughout your product's lifecycle, it also reduces both the risk and TCO of your global IoT deployment.

For more information on multi-IMSI and its value to M2M/IoT devices, please see: **Multi-IMSI Explained.**

## Benefits

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**Ubiquitous Global Connectivity:** achieve over 99.8% device connectivity uptime across more than 190 countries globally
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**Out of the Box, Zero Touch Provisioning:** automatic Over-The-Air (OTA) connection and setup of the device with no on-site configuration)
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**Central Management:** one global point of contact for service, support and billing for all IoT device connectivity; no need for multiple MNO contracts and associated support agreements
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**Improved Connectivity Resilience:** the AnyNet Secure® multi-IMSI SIM can be configured with multiple IMSI bootstraps to allow complete autonomy to switch networks and provide uninterrupted cellular connectivity.
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**Future Proofed SIM Technology:** support for 5G, as well as LTE networks which will benefit applications using all 4G networks including Cat-M1 Devices.
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**Flexible integration:** multiple out-of-box integration options with Cloud providers and device manufacturers

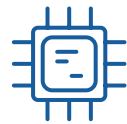
## Features



Full suite of security features, including IMEI locking and bespoke firewall



Multiple bootstrap IMSIs to enable autonomous network switching



Flexible integration - embedded or standard card form-factors



Real-time billing alerts and cost management



Provides real-time SIM location-based services



Multiple 'over the air' reprogrammable IMSIs



VPNs, Fixed IPs and NAT offered



Access to the cloud-based SIM Management Portal (SIAM)



# SIM Specification

## SIM Type

- Standard M2M grade 2FF, 3FF card or MFF2 embedded
- M2M grade 4FF Nano cards and specifications are available on request

## MFF2 Operation

	MFF2 EMBEDDED SIM
Operating Temperature Range	-40° to +85°C
Temperature Humidity Bias (THB)	To JESD22-A101
Storage Temperature	-40° to +125°C
Vibration Variable Frequency (VVF)	To JESD22-B103

## MFF2 Power

- Supply voltage range; 1.62 V to 3.3 V

## MFF2 Package Dimensions

- Weight; 0.17g

## Provisioning & Management

- Eseye SIAM portal (account required). [See more here](#)
- API available. [See more here](#)

## Features

- SMS/MMS/USSD/CSD
- SIMID barcode

\*USSD not available 4G and above

Conforming to the JEDEC specification, ideal for automated soldering as part of manufacturing package thickness shall not exceed 1.0mm. An index marker will be visible on the exposed metal heat feature located at the terminal 1 corner. The topside terminal 1 shall be indicated by a marked feature. The exposed metal heat feature (exposed die pad) of the package is either electrically connected internally to ground or it is not electrically connected within the package. The electrical handling of the JEDEC terminals shall be as defined in ETSI TS 102 221

## Security

- Private APN
- APN Firewall
- Side channel attack detection: (SPA, DPA)
- Encrypted storage: code, keys and data
- Blocking available on IMEI, location, country and services
- Flexible feature enablement/ disablement

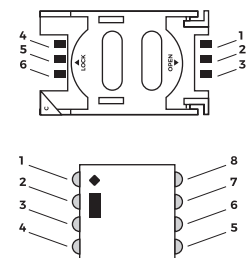
## Memory & Data Storage

- Non Volatile Memory (NVM): 64 kB
- Write/erase time (max.): 2.3 ms
- Data retention time (min.): over 10 years at -40 to +85°C
- High stress memory (HSM) supports >2M E/W cycles per file

## SIM PIN Definitions

For full details on the layout of Embedded SIMs see here

PIN	SIM CARD (2FF/3FF)	EMBEDDED SIM (MFF2)
1	VCC	GND
2	RST	NC
3	CLK	I/O
4	GND	NC
5	VPP	NC
6	I/O	CLK
7	-	RST
8	-	VDD



# Ordering Information

Available to order via email to sales@eseye.com

Minimum order quantity: 1 SIM for 2FF / 3FF / 4FF and 200 SIMs MFF2.

Lead time: we aim to process all 2FF / 3FF / 4FF SIM card orders on the day of order (if ordered before 3PM GMT).

Please note, these specifications may be subject to change without prior notice.

Name	Order Code
AnyNet 2FF/3FF	ES5611
AnyNet 2FF/3FF/4FF	ES5631
AnyNet MFF2	ES5620