



Smart Series

Optimized IoT/M2M SIM for IoT deployment



With the arrival of 5G networks, the growth of IoT is expected to reach over 25 billion by 2025. 5G networks offer better efficiency, improved device management, and ultra-low latency which can enable innovations and transform industries. IDEMIA offers a full range of 5G solutions to support 5G IoT deployment as well as NB-IoT and LTE-M networks.

The IoT explosion has created the need for an IoT and M2M SIM card with specific technical requirements that are fully compatible with NB-IoT, LTE-M networks; and that are harsh environment resistant in order to support IoT deployment across commercial, industrial, and automotive segments.

Our offer

Robust DIM® IoT/M2M SIM

The DIM® (Device Identity Module) is an IoT and M2M SIM that's built to operate in harsh environments over long periods of time, making it ideal for deployment in remote locations. In addition, DIM IoT is compliant with the latest ETSI, 3GPP, and ISO standards to ensure functionality during the entire product life cycle.

Extend M2M SIM Lifetime with Ruggedized OS

With a feature that provides frequent memory erase write cycles during long periods, the DIM® also offers ruggedized OS to enhance memory endurance thanks to our patent-pending Memory Shield capabilities that send low memory alerts and "end-of-life" device warnings to avoid sudden device shut down.

Save energy with DIM® Low Power features

DIM® can negotiate the polling interval with the IoT/M2M device to reduce power consumption, which is especially useful for battery operated devices in a LPWAN environment.

Reduce testing efforts with BIST on DIM®

DIM® offers BIST (Built-In Self Test), a quick and accurate self-testing feature. BIST enables OEMs to verify OS integrity during the assembly process, helps avoid unexpected recalls, and improves product quality.

Benefits



Worry-Free Services

We deliver an end-to-end turnkey solution that meets the various requirements of mobile operators and OEMs.



Lower cost and effort

Optimized product footprint and form factors lowers Total Cost of Ownership (TCO) to enable IoT/M2M devices quickly.



Differentiate your brand and solution

Our exclusive self-testing feature, BIST, and Low Power support brings added value to your customers.

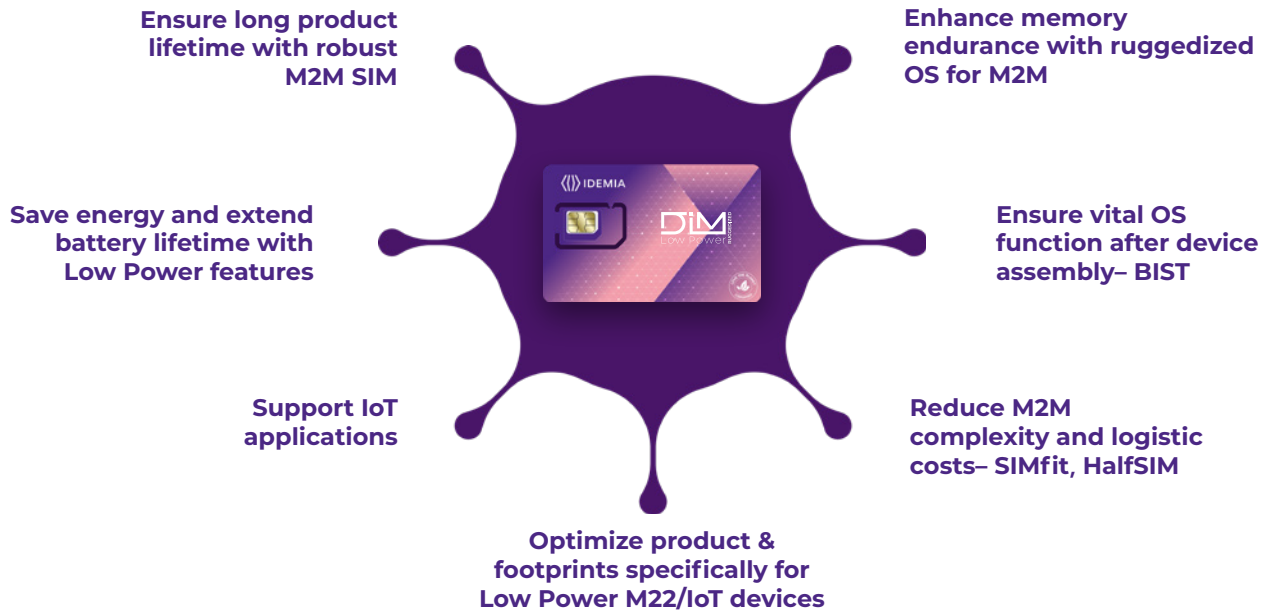
Why IDEMIA?

Trusted by over 500 mobile operators worldwide, with over 900 million SIM cards shipped in 2020, IDEMIA is leading the way in the mobile and M2M/IoT ecosystem. With a global manufacturing footprint and cutting-edge security data centers in Europe and the United

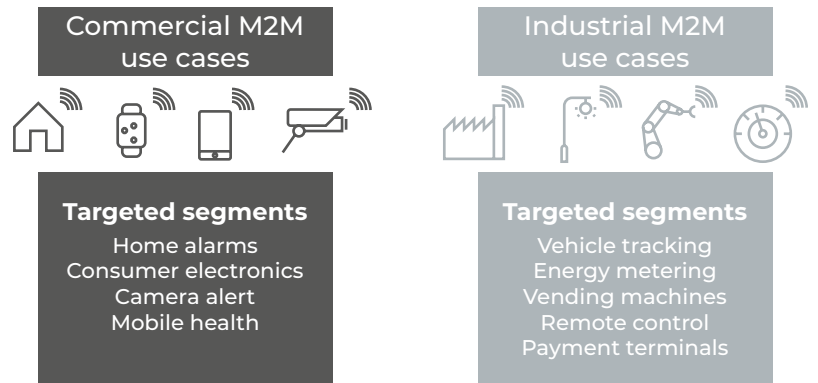
States, IDEMIA's continuous innovation is fueled by strong R&D investments and close partnerships in IoT/M2M – Connectivity – Biometrics – Security – Encryption – Quality of Service – Advanced SIM & services areas.



How it works?



DIM® solutions for different IoT segments



Product Characteristics

OS Series	Smart
Product	DIM Low Power
Chip	<ul style="list-style-type: none"> › SC15 (Commercial) › SC18 (Industrial)
IoT segment	<ul style="list-style-type: none"> › Industrial (-40°C / 105°C) › Commercial (-20°C / 85°C)
Memory	› 64KB Free Memory
Ruggedized Operating System (OS)	<ul style="list-style-type: none"> › Java Based Ruggedized OS › Extended Life Mechanism
Qualification	› Telecom, Oracle Java & JEDEC*
Security	<ul style="list-style-type: none"> › DES, 3DES, AES, COMP128 & Milenage › SHA256
M2M features	<ul style="list-style-type: none"> › BIST (Built-In Self Test) › Low Power features
Applications	<ul style="list-style-type: none"> › Location update › Device detection
M2M Low Power	› Poll Interval Negotiation
Standard compliance	<ul style="list-style-type: none"> › 3GPP Rel.14 › ETSI Rel.14



In addition

- › Robust M2M/IOT SIM: survives temperature extremes, humidity, and corrosive conditions.
- › M2M features in an optimized SIM
- › Long life span
- › OTA (Over-the-Air) supporting Remote File & Application Management.
- › Low Power features compatible with IoT devices
- › Support 2FF/ 3FF/ 4FF/ SIMfit/ SMD (MFF2)

* Global Standards for the Microelectronic Industry