The integrated SIM is reality

Developing trusted, secure and smart connected solutions

• 4FF / Nano SIM (12.3 x 8.8 mm)
• 2FF / ID000 / Mini SIM (25 x 15 mm)

• Dedicated smartcard controller
• Pluggable SIM card

• Reduction of:
  • Cost, size, power consumption
  • Process complexity, plastic / waste…

• Increase of:
  • Service, sustainability
  • Flexibility, functionality…

The industry is in the process of defining the common
definition of iUICC, which incorporates CPUs, memory, and in some cases even wireless transceivers,
that is physically incorporated to a device's system on a chip (SOC), a single chip
implemented within a system on chip (SoC) for consumer devices. For example,
baseband (e.g. NB-IoT) incl. integrated transceivers (e.g. for CAT-M1)
are dedicated embedded chips on your device's circuit board,
and must be in place within the modem chipset to take advantage
of the benefits of iUICC.

Then module and device makers need to help define
required functionalities, e.g. for enabling secure remote
intrusions and enable countermeasures against hardware and
traditional SIM cards, for the software as well as the underlying
environment to take advantage of the benefits of iUICC.

In order for the market to adopt new standards and replace
past solutions, the following requirements are needed:

• Agreeing upon secure individual operating system
• Developing secure individual operating system
• Guaranteeing interoperability, within the eSIM ecosystem
• Integrating and managing tokens
• Guaranteeing security

The Future of Integrated SIM

As the market demands more powerful software solutions and faster, more reliable connections,
and the need for secure remote upgrades become more pressing,
and the iUICC is a forward-thinking approach to the next generation of
secure IoT connectivity especially for consumer devices, phones, and tablets.
G+D is working with key partners, featuring both MNO and device maker buy-in.
Close collaboration across the entire ecosystem is needed.

The iUICC solution is incorporated into
the upper double-digit million range connected worldwide through G+D's solutions.

The benefits of iUICC

• No specific form factor
• Supports flexible connectivity via SIM cards
• Enables power optimization

The iUICC does not require any extra
housing or plastic card material, nor does it need a plug-in slot, etc.

As there's no need for dedicated SIM hardware, less power is needed for your connected device.
So... can benefit from more efficient power requirements, a key benefit for devices in unmanned or remote locations.

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