



G+D Mobile Security unveils first of its kind NB-IoT iSIM operating system for a Telit Cinterion module

2024-12-04

Munich

Giesecke+Devrient

The IoT market has stepped into a new phase with Giesecke+Devrient Mobile Security (G+D) today unveiling its new market ready Integrated SIM (iSIM) solution for the IoT based on a module by Telit Cinterion. With its cutting-edge iSIM operating system for a chipset from Sony Semiconductor Israel (Sony), G+D is now providing a solution specifically designed and optimized for use in NB-IoT (Narrowband IoT) applications.

The iSIM is central to improving the connectivity, security and sustainability of next-generation IoT devices. G+D wants to accelerate its iSIM innovation and therefore, in cooperation with Telit Cinterion, a global leader in IoT enablement products, services, and solutions, has developed a new solution ideal for a wide variety of NB-IoT use cases such as smart metering, smart agriculture, asset tracking and more.

A key component of the solution is the iSIM or iUICC (integrated universal integrated circuit card), which, unlike pluggable SIM cards or permanently soldered eSIMs, is a tamper-resistant element (TRE) within a system-on-a-chip (SoC). This means the iSIM is an isolated hardware component combined with a baseband chipset to form a single connectivity module. This design gives the iSIM numerous advantages in areas such as power consumption, cost, sustainability and security. The small footprint enables the production of small, lightweight and therefore cost-effective devices. In addition, iSIMs meet high sustainability requirements.

The isolated hardware, in combination with the secure and certified iSIM operating system from G+D, ensures a high level of security. With the participation of a tier one global mobile network operator, G+D has successfully qualified its iSIM-OS on the Telit Cinterion NE310L2 NB-IoT module, based on Sony's Altair ALT1255 chipset, and can now be offered to OEMs. This marks a first milestone for G+D, as one of the first providers of an operating system for Sony's low-power, cost-optimized Altair chipset that is specifically tailored to NB-IoT use cases.

G+D's secure iSIM-OS is platform-independent and ensures optimal functionality on various iSIM-enabled chipsets, which includes Sony's next-generations Altair ALT1250, ALT1255 and ALT1350 LTE-M and NB-IoT chipsets. This compatibility underscores G+D's commitment to providing solutions that can be used for a wide range of IoT applications and devices.

"G+D is investing heavily in the research and development of iSIM technology. In close cooperation with industry partners, we want to drive iSIM innovation forward. To have successfully developed and qualified an optimized iSIM-OS for a cost-effective and commercially available NB-IoT product is a perfect example of this in action." said

BeeGek Lim, Global Vice President, Head of Business Line Digital Offerings at G+D. "In general, one of our main priorities is to provide secure solutions for a wide range of IoT applications and devices, so that users can exploit the full potential of the IoT with flexible and cost-optimized connectivity."

"Telit Cinterion is happy to be part of the co-operation between G+D and Sony Semiconductor Israel on this first innovative technology achievement," said Jose Sanchez, Senior Director Product Management, IoT Connectivity & Services at Telit Cinterion. "We look forward to working with our partners to stay at forefront of iSIM technology for IoT in the coming years."

"We are excited to collaborate with Telit Cinterion and G+D to enable iSIM on our LPWA products. ALT1255 is the first NB-IoT chipset with iSIM on the market", said Dima Feldman, VP Product Management and Marketing at Sony Semiconductor Israel. " iSIM enables connectivity without additional physical hardware, this simplifies the solution and logistical onboarding flow, and making it more affordable which is a key for the industrial IOT market".

About Giesecke+Devrient

Giesecke+Devrient (G+D) is a global SecurityTech company headquartered in Munich, Germany. G+D makes the lives of billions of people more secure. The company shapes trust in the digital age, with built-in security technology in three segments: Digital Security, Financial Platforms and Currency Technology.

G+D was founded in 1852 and today has a workforce of more than 14,000 employees. In the fiscal year 2023, the company generated a turnover of 3 billion euros. G+D is represented by 123 subsidiaries and joint ventures in 40 countries.

Further information: www.gi-de.com