G+D and Murata announce world's first integrated SGP.32 and iSIM compliant connectivity module

2024-11-07 · Munich · Giesecke+Devrient

Giesecke+Devrient (G+D) and Murata unveil the world's first connectivity module to apply the new SGP.32 Remote SIM Provisioning (RSP) specification of integrated SIM (iSIM) technology. This novel solution is built upon Murata's innovative Type 2GD Cat.M1/NB-IoT connectivity module supporting ETSI/3GPP Release 17 standard and Giesecke+Devrient's highly-secure SGP.32-compliant SIM OS. It is designed to support OEM IoT deployments, including point of sale (POS) products, asset tracking, healthcare solutions and wearable devices, as well as smart city, agriculture, and home devices.

IoT applications are increasingly being used in a wide variety of areas such as transportation and logistics, agriculture, energy management, manufacturing and smart city concepts. However, there are still some limitations and challenges in the implementation of IoT scenarios, especially in the provisioning and management of IoT devices.The SGP.32 specification published by the GSMA for remote SIM provisioning will bring a significant improvement here. Instead of the SMS-based communication of the predecessor specification SGP.02, SGP.32 uses a faster and more reliable IP-based protocol. The required SIM credentials and settings can be sent directly over-the-air (OTA) to the devices via a mobile network. This makes it much easier to load, activate and manage the SIM profiles of IoT devices.

Murata's compact Type 2GD Cat.M1/NB-IoT connectivity module incorporates an Integrated Universal Integrated Circuit Card (iUICC) enabling it to support SGP.32 compliant iSIM applications. During production, the customer's desired SIM profile along with G+D's market-leading SIM OS can be flashed onto the module's iSIM element, eliminating the need for customers to carry out this process manually, streamlining IoT device production. The iSIM

provisioning, provided by G+D, also allows for convenient reconfiguration if there is a need to change the SIM profile once the IoT device has been deployed, further simplifying and reducing the costs of IoT cellular deployments.

"iSIMs will play a crucial role in the future of cellular IoT devices, cutting down on size, and complexity for deployments like smart cities, medical IoT, and wearable devices that rely on cellular services." said Hirokazu Nakae, General Manager, Connectivity Module Products Department at Murata. He continued, "Thanks to this new initiative, the cutting-edge Type 2GD is the market's first module that is ready to support the next generation of SGP.32 compliant iSIM devices."

"We're excited to partner with Murata to launch this groundbreaking SGP.32-compliant iSIM module. This solution simplifies IoT device production and deployment while offering manufacturers unmatched flexibility in managing SIM profiles" said BeeGek Lim, Global Head of Digital Connectivity & IoT Solutions at G+D. She continued: "Following on from our other industry firsts in the market, this milestone highlights our ongoing commitment to IoT and iSIM innovation. Together with our strategic partners, we're driving the future of connectivity and efficiency across various sectors."

End-to-End Solution

G+D enables a SGP.32 compliant iSIM solution within the Murata's Type 2GD module. This solution represents the first integrated connectivity module to support both SGP.32 and iSIM technology. G+D's OS and management solution enables the complete lifetime remote provisioning of the SIM profile in cellular IoT devices, allowing customers to upload, manage or change the SIM profile of a new device, regardless of its global location.

The new solution from G+D and Murata und G+D will be presented at electronica 2024 from 12.-15. November in Munich at the Murata booth: Hall C4.179.

For further information on G+D's end-to-end SGP.32 solution, please visit: [Next Generation of SIM - iSIM with Remote SIM Provisioning](#) ∎

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

About Murata

Murata is a leading manufacturer of electronic components, modules, and devices. The complete range includes ceramic capacitors, resistors/thermistors, inductors/chokes, timing devices, buzzers, sensors, and EMI suppression filters. Whilst the company is known as a global ceramic capacitor manufacturer, it is also a world leader in Bluetooth® & WiFi™ Modules, board-mount DC-DC converters and is a key manufacturer of standard and custom AC-DC power supplies. Established in 1944, Murata is headquartered in Japan and has European offices in Finland, France, Germany, Hungary, Italy, the Netherlands, Spain, Switzerland, and the UK.

Further information: www.murata.com ∎