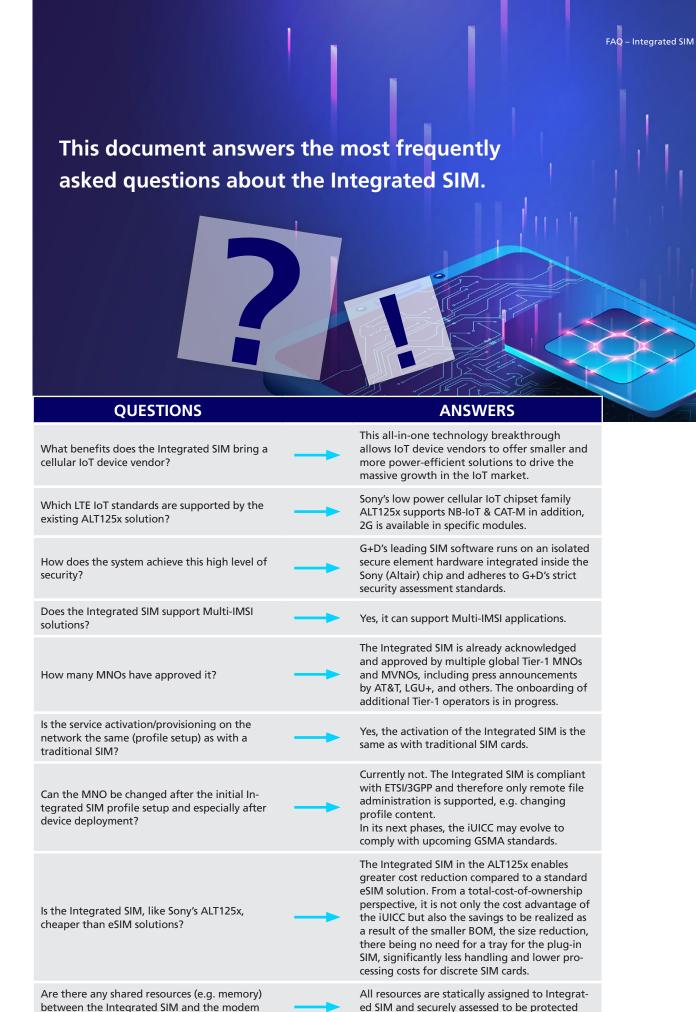


## Everything you wanted to know about the Integrated SIM

## FAQ by Sony Semiconductor IL and Giesecke+Devrient (G+D)

SIM technology has been used for decades to verify customers on a mobile network or while upgrading an existing phone. Advancements in SIM technology become all the more important as we move closer to a world of increasingly connected people, devices, and machines on the Internet of Things (IoT). Advancements in the traditional SIM led to the embedded SIM (eSIM) technology and its further evolution is the Integrated SIM or integrated Universal Integrated Circuit Card (iUICC). Compared to the traditional SIM and eSIM, the Integrated SIM is no longer a separate hardware in the device. The iUICC combines the baseband module with the SIM within a System on a Chip (SoC). The Integrated SIM has several advantages: a small footprint, low power consumption and cost efficiency. Further, it allows for process optimization for IoT device manufacturers and more.



against change.

chipset?



	ANSWERS
<b>—</b>	The Integrated SIM is suitable for any cellular device. As for IoT, the Integrated SIM based on the ALT1250 chipset can be used in the R14 LTE CAT-M/NB-IoT and 2G network and the ALT1255 chipset can be used in the R14 NB-IoT and 2G network as a fallback.
<b>→</b>	The Integrated SIM is compliant with ETSI/3GPP. In its next phases, the Integrated SIM may evolve to comply with upcoming GSMA standards.
<b>-</b>	The Integrated SIM is commercially deployed. Personalization can be done anywhere, including India. Sony and G+D can support and introduce the process.
<b></b>	The Integrated SIM based on the ALT1250 chipset is used in IoT devices targeting LTE CAT-M/NB-IoT. The same Integrated SIM will be used in the next-generation chipset with 5G NR capabilities.
<b>→</b>	Yes, a specific set of data is pre-generated and bundled with the secure operating system and is provisioned during the module or device manufacturing process.
<b></b>	The PNs with an Integrated SIM are ALT1250ST, ALT1250SB, and ALT1255SB.
<b>→</b>	OTA services such as remote file management are supported.
<b>→</b>	There is an AT command to switch from the Integrated SIM to the external SIM I/O.
<b>-</b>	The ALT1250/ALT1255 chipsets are qualified for industrial grade applications and are being commercially used in automotive aftermarket applications.  At the moment, there is no plan for AEC-Q qualification.
	→ → → → → → → →

Please contact us if you have any further questions.



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