

STMicroelectronics Debuts Single-Chip Positioning Device for Multiple Global Navigation Systems

Switzerland, 24th January - STMicroelectronics has introduced Teseo II, a new generation of single-chip stand-alone positioning receivers for Portable Navigation Devices, in-car navigation and telematics applications. These Systems-on-Chips are the industry's first monolithic devices capable of receiving signals from multiple satellite navigation systems, including GPS, GALILEO, GLONASS and QZSS*. ST's Teseo II family combines high positioning accuracy and indoor sensitivity performance with powerful processing capabilities and superior design flexibility.

The ability of these positioning devices to acquire the position, velocity and time data from all major global navigation systems greatly improves the user position accuracy and navigation in poor satellite visibility conditions, such as in urban canyons. The Teseo II chips also offer exceptionally short signal-acquisition times (Time To First Fix), leveraging ST's own Self-Trained Assisted GPS™ technology, which improves the startup performance of a positioning device in difficult signal conditions.

The positioning SoCs address a wide range of consumer and automotive applications, including Personal Navigation Devices, GNSS modules, marine equipment, fitness devices, in-car navigation, telematics, eCall and Advanced Driver Assistance Systems. The Teseo II family comprises automotive-grade product versions, designed to meet the specific and rigorous demands of the automotive market. These are qualified to AEC-Q100, a critical stress-test qualification for automotive integrated circuits, and manufactured using ST's rigorous automotive production flow methodology aimed at zero parts-per-million failure rate.

"Teseo II is the world's first single-chip solution able to acquire and track signals from satellites of multiple global navigation systems, including GPS, GLONASS and QZSS that are operational today, as well as Europe's upcoming GALILEO," said Fabio Marchio, Automotive Product Group Vice-President and General Manager of ST's Automotive Infotainment Division. "The superior positioning accuracy, combined with powerful processing capabilities and open platform approach, makes ST's Teseo II chips an ideal choice for next-generation navigation and telematics applications, where cost-effectiveness meets uncompromised performance."
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