

ST-Ericsson's High-Performance Modems Pave the Way for Global LTE Devices

ECN Europe

ST-Ericsson, a world leader in wireless platforms and semiconductors, today launched two of the first modems based on its new groundbreaking architecture, which will enable manufacturers to develop sleek and power-efficient devices that can connect to LTE and HSPA+ networks around the world. Consumers will be able to use these devices to access the Internet at high speeds both in their own country and when roaming.



[1]

ST-Ericsson's LTE platform

The Thor M7400 platform support the latest LTE and HSPA+ dual-carrier technologies and the Thor M7300 supports HSPA+ capabilities up to 84 Mbps, while preserving backward compatibility to existing 3G/2G networks. The new Thor modems feature a highly-integrated radio solution that offers support for up to eight LTE/HSPA/GSM bands within a very small footprint, enabling development of truly global smartphones, tablets and many other mobile broadband-enabled devices. To further optimize footprint the new Thor modems include memory-less technology which is used when combining with an application processor in smartphones.



[2]

thin-modem-platform 7400

The Thor M7400 is the industry's smallest and first two-chip LTE/HSPA+ modem, which also continues the low power consumption track record from ST-Ericsson's market-leading HSPA+ modems. Similarly compact and power-efficient, the two-chip Thor M7300 provides capabilities to further improve the mobile broadband performance timely in sync with the coming dual carrier volume market for smartphones and tablets.

"In Thor, ST-Ericsson's engineers have achieved the optimum combination of hardware acceleration, for low power consumption, and execution in software, enabled by our in-house vector processing technology, which offers the flexibility to continuously add features and performance enhancements to existing chipset hardware," said J rgen Lantto, executive vice president, chief technology and strategy officer of ST-Ericsson. "Our radio solution is unique in that it supports the regional LTE FDD/TDD bands in use in Asia, Europe and North America, as well as HSPA/EDGE networks worldwide, allowing device manufacturers to offer truly global devices."

The ThorM7400 and ThorM7300 modems are based on a common architecture, enabling ST-Ericsson and its customers to benefit from shorter time-to-market by re-using of modem certification and application processor interfaces across platforms, reducing time-to-market. The new Thor modems are also pin-to-pin compatible which enables customers to completely reuse their design across the two platforms.

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