



# ST-ERICSSON – EMPOWERING MOBILE BROADBAND

**It has become mainstream to use smartphones, tablets, notebooks and other devices to stay continually connected, both for work and play. In the near future, mobile broadband is likely to become ubiquitous, providing high-speed connectivity to many billions of people, devices and machines.**

ST-Ericsson is a leading global supplier of advanced thin modems which enables existing mobile broadband services to work better and future services to take form by integrating the latest mobile broadband technology in all types of devices.

## REVOLUTION

Mobile broadband subscriptions have already surpassed fixed broadband connections. Mobile data traffic continues to grow and doubling from Q2 2010 to Q2 2011<sup>1</sup>. Users with modern, capable devices are increasingly using their device to access internet.

To boost both throughput speeds and capacity, mobile operators are now upgrading their HSPA mobile broadband networks with HSPA+ technology and are rolling out 4G and LTE (Long-Term Evolution) networks.

In November 2011, the global mobile supplier association (GSA) reported the acceleration of investments into

LTE and forecasts 103 commercial networks by end 2012. Furthermore, GSA also confirmed that HSPA+ is now mainstream, with 152 commercial networks already launched, a number which should increase to about 180 commercial HSPA+ networks by the end of the year.

The performance and capabilities of HSPA networks are advancing in leaps and bounds as they are mostly upgraded using HSPA+ technology, capable today of delivering peak downlink speeds of up to 42Mbps – as fast, if not faster, than fixed-line broadband connections.

LTE offers throughput speeds of up to 100Mbps with very low latency which enables advanced use cases since the networks are designed to deliver demanding multimedia services, such as high-definition video streaming, video conferencing, online gaming, rapid file transfers and simpler, faster access to web-based applications.

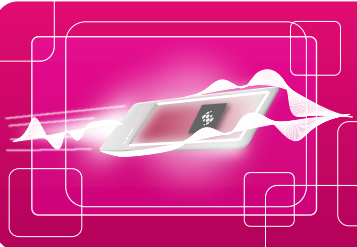
## ST-ERICSSON AS AN ENABLER

ST-Ericsson is a world leader in providing innovative solutions for mobile broadband. As a supplier to leading device manufacturers, ST-Ericsson Thor™ thin modems are powering many of the most innovative HSPA and HSPA+ devices on the market today.

We are taking the modem technology evolution into the next phase, with innovative solutions for seamless multimode devices with global reach.

ST-Ericsson's Thor family of mobile broadband modems makes ultra-fast web browsing and high speed data connectivity ubiquitous, easy and reliable by combining industry-leading innovations in modem technologies with decades of proven legacy and the most rigorous interoperability testing to deliver the fastest data rates, everywhere at lowest consumption.

<sup>1</sup> source: Ericsson



### THOR THIN MODEMS

Supporting the major access technologies, ST-Ericsson's Thor family of mobile broadband thin modems can be integrated into smartphones, tablets and other devices to provide reliable high-speed data connectivity across the world. Devices powered by Thor thin modems provide a high-quality user experience for a wide range of online applications, such as Internet browsing, real-time location services, uploading user-generated content and video conferencing.

In 2011, ST-Ericsson announced smartphones from Samsung, Motorola, Panasonic and Sharp based on Thor thin modem solutions. ST-Ericsson's Thor 21Mbps modems consume less power and generate low thermal heat, enabling manufacturers to embed the modem into sleek and attractive consumer electronics devices, such as phones, notebooks and gaming devices. The high peak data rates<sup>2</sup> give a much higher average throughput than earlier mobile platforms, making it viable for consumers to replace their fixed broadband connection with mobile broadband.

### COMING SOON TO A PHONE NEAR YOU

ST-Ericsson Thor M7400 is a new generation of multimode mobile broadband modem. It supports the latest LTE, HSPA+ Dual Carrier and TD technologies.

The small form factor and high power efficiency of the Thor M7400 enable slim form factor smartphones, tablets and other mobile broadband enabled devices. The advanced multimode RF design offers new level of flexibility to support regional LTE FDD/TDD/HSPA bands in Asia, Europe and North America in combination with global HSPA/EDGE.

The Thor M7400 represents a breakthrough in modem architecture. It delivers an optimum combination of hardware acceleration, for lowest power consumption, and flexible execution in software allowing feature and performance enhancements in existing hardware. Equipped with the latest communication interfaces it enables efficient integration between application processor and modem, including memory-less modem design when combining with an application processor.

All of ST-Ericsson's Thor modems are equipped with communication interfaces, enabling them to be integrated easily with the very latest ST-Ericsson Nova™ application processors into complete device platforms. ST-Ericsson new NovaThor™ family of platforms bring unprecedented levels of computing and graphics performance to all segments of smartphones and tablets while consuming less power.

### KEY FEATURES FOR THOR™

- Industry-leading size and power consumption enables small, affordable and power-efficient devices
- Innovative architecture for flexible and efficient operation and allows new telecom releases to be implemented quickly
- Flexible radio technology for unmatched geographical coverage
- Memory-less technology used when combining with an application processor in smartphones to help further optimize the footprint
- Subject to industry-leading test and verification process with operators around the world to improve time-to-market

<sup>2</sup> For example, the ST-Ericsson Thor M5730 enables peak download speeds of 21Mbps

#### FOR FURTHER INFORMATION, PLEASE CONTACT:

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