

NVIDIA i500 SOFTWARE-DEFINED MODEM

Now you can connect to everything you love a whole lot faster.

The i500 lets your NVIDIA® Tegra® processor-powered mobile device connect to the Internet at super-fast 4G LTE speeds. Plus, its ultra-low power consumption maximizes battery life, so you can enjoy fast downloads and gaming on the go. But it's also backwards compatible with older 3G and 2G cellular technologies, which means you'll find a cellular connection just about anywhere.

KEY INNOVATIONS

- **Unique Software-Defined Radio (SDR) technology.** The i500 is a future-proof platform delivering 100 Megabits per second out of the box, plus software-upgradeability to 150 Mbps LTE, carrier aggregation, and TD LTE—all on the same processor
- **Tegra optimization.** Multiple reference designs and pre-integration with NVIDIA Tegra, Android, and WinRT platforms mean manufacturers can add mobile connectivity to their Tegra-powered products and get them to market faster.
- **Truly tiny footprint.** The small TE/3G modem and radio footprint enables the smallest, slimmest designs.
- **Proven LTE stack.** LTE technology is already qualified on AT&T and other major operators, ensuring proven reliability.

NVIDIA i500 SPECIFICATIONS

Baseband	
LTE	Cat 3/Cat 4 100-150 Mbps DL (50 Mbps UL) FDD and TD-LTE, TMs 1-8
Carrier aggregation	Dual IceLink™ interfaces for downlink CA Up to 10 MHz+10 MHz
HSPA+	Cat 24/6 42 Mbps DL (5.7 Mbps UL) Plus cats 6, 8, 10, 14, 18
TD-HSPA	Cat 24/6 4.2 Mbps DL (2.2 Mbps UL) Including TD-SCDMA
2G	GSM, GPRS, EDGE Up to class 12
2G/3G voice	Multi mic AEC/noise reduction AMR-WB, AMR-NB, FR, EFR, HR
LTE voice	CSFB and VoLTE (IMS) CSFB with SI tunneling, VoLTE with SRVCC
Other features	IceClear™ Interference cancellation
Package	7mmx7mm package
Process	28 nm
RF	
RF Bands	Single-chip multi-band FDD and TDD LTE/HSPA+/EDGE and TD-SCDMA
RX diversity	Multi-band RX diversity

EMBARGOED UNTIL TUESDAY, FEBRUARY 19, 2013 AT 6 AM PACIFIC TIME

FDD	Multi-band FDD HSPA and LTE functionality: Bands 1 – 14, 17 – 21, 24 – 26, 27, 29, 90
TDD	Multi-band TDD LTE and TD-SCDMA functionality: Bands 33 - 41
Package	6.5 mmx6.5 mm package
Process	65 nm CMOS