

TITANIUM™ FOURTE RT

QUAD ADSL DLC/MDU Chip Set

G7266RT

The Titanium Fourte RT Asymmetrical Digital Subscriber Line (ADSL) chip set is a fully programmable solution optimized for Digital Subscriber Line Multiplexers (DSLAM) for Remote Terminal (RT) applications such as Digital Loop Carriers (DLC) and Multiple Dwelling Units (MDU) where extremely low power, very high port density, and field proven interoperability are critical requirements. The chip set comprises a four channel DSP tightly coupled with four Analog Front End (AFE) ICs that feature a fully integrated line driver optimized for short loop applications.

This new four-channel chipset solution supports all relevant ADSL standards including ITU G.992.1 (G.DMT), ITU G.992.2 (G.lite) and ANSI T1.413 issue 2. Each channel operates independently, enabling multiple line codes to be supported simultaneously on a single line card.

Powered by GlobeSpan's seventh generation DSP architecture, the full programmability and field upgradeability of the chip set delivers investment protection against product obsolescence, and provides a significant time-to-market advantage for system equipment providers.

To accelerate time to market, complete transceiver reference designs and a modular evaluation and development platform are available.

ADSL



The Titanium Fourte RT ADSL Chip Set

TITANIUM™ FOURTE RT

Features and Benefits

- *Four independent ADSL channels supported by a 5-chip transceiver, consisting of a 356-pin TEBGA DSP with integrated framer and four 28-pin SSOP AFE with integrated line driver*
- *Standards compliant chip set supports multiple implementations: ANSI T1.413 i2, ITU G.992.1 (G.dmt), ITU G.992.2 (G.lite)*
- *Programmable DSP architecture enables software upgradeable feature enhancements, performance improvements, and on the fly interoperability*
- *Four single-channel Analog Front Ends (AFEs), optimized for ADSL short loop applications, minimize external analog filter requirements*
- *Downstream DMT data rate up to 8 Mb/s*
- *Upstream DMT data rate up to 1 Mb/s*
- *Integrated, multifunctional framer supports ATM UTOPIA Level 2*
- *Glueless interface to popular communications processors and SAR chips*
- *A single oscillator supports all speeds*
- *Boundary-scan testing compliant to IEEE Std 1149.1 Joint Test Action Group (JTAG)*

Applications

- Digital Subscriber Line Access Multiplexer (DSLAM)
- Digital Loop Carrier (DLC) and Multiple Dwelling Unit (MDU)
- Transmission of ADSL with undisturbed POTS on the same telephone line
- Business and residential data access services
- Remote access servers
- VoDSL Support



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