

Viking™



ADSL CPE Integrated Network Processor

G8000 Family

The highly integrated G8000 Ethernet Modem ADSL chip set offers OEMs a complete full rate, full bridging performance two-chip solution for ADSL Ethernet customer premises applications. This cost effective solution is based on GlobespanVirata's fully programmable multi-mode DSL DSP that supports all standard compliant versions of ADSL including ITU G.992.1 (G.DMT), ITU G.992.2 (G.Lite), ITU G.992 Annex A, Annex B, Annex C (FBM and DBM), and ANSI T1.413 Issue 2.

A fully programmable solution ensures upgradeability to future versions of ADSL without hardware modifications and delivers complete interoperability with other chip sets and system vendors. The digital chip integrates a Network Processor, 10/100 Ethernet MAC, USB 1.1 compliant interface, Digital Signal Processor (DSP), and Reed Solomon memory. The analog chip integrates an Analog Front End (AFE), transmit operational amplifier, and analog multiplexer. The combined integration in this two-chip set solution significantly reduces the overall system cost.

The G8000 family provides industry-leading performance with data rates up to 8 Mb/s downstream and up to 1 Mb/s upstream. The multiple line code capability provides a single ADSL solution for Service Providers regardless of regional DSLAM deployments.

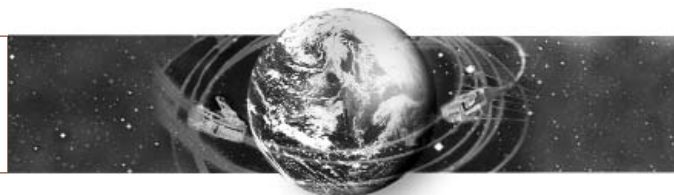
As a comprehensive ADSL solutions provider, GlobespanVirata offers detailed turn key reference designs, chip set data sheets, complete hardware specifications, schematics, Gerber files, and network software for Ethernet Modem applications. In addition, GlobespanVirata offers dedicated technical support to ensure ease of design and early time to market.



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* Chips as depicted are for representation only. Actual chips may vary from depiction.

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Features and Benefits

- Full rate DMT ADSL solution
- Fully integrated Network Processor, 10/100 Ethernet MAC, USB 1.1 compliant interface, and DSP, and Reed Solomon memory
- Fully integrated AFE with integrated transmit operational amplifier and analog multiplexer
- Standards compliant: ITU G.992.1 (G.DMT), ITU G.992.2 (G.Lite), ITU G.992 Annex A, Annex B, Annex C (FBM and DBM), and ANSI T1.413 Issue 2
- Data rates up to 8 Mb/s full rate, 4 Mb/s for G.Lite downstream and up to 1 Mb/s upstream
- Full rate bridging performance
- Simultaneous Ethernet and USB Interfaces
- Turn-key Ethernet Modem reference design
- Interoperable with other ADSL chip sets and DSLAM system vendors
- Supports splitterless consumer installable DSL (CiDSL™) (Splitter required for Annex B)
- ATM/UBR/VBR/CBR Services
- Multiple VCs support
- HTTP Server and Command Line Interface
- Support for PPP over ATM, PPP over Ethernet, Ethernet over ATM, and IP over ATM
- Visual LED indicates network status
- Dying Gasp



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