

## SECURITY-ENABLED ETHERNET, DSL, AND PON CPE SOLUTION

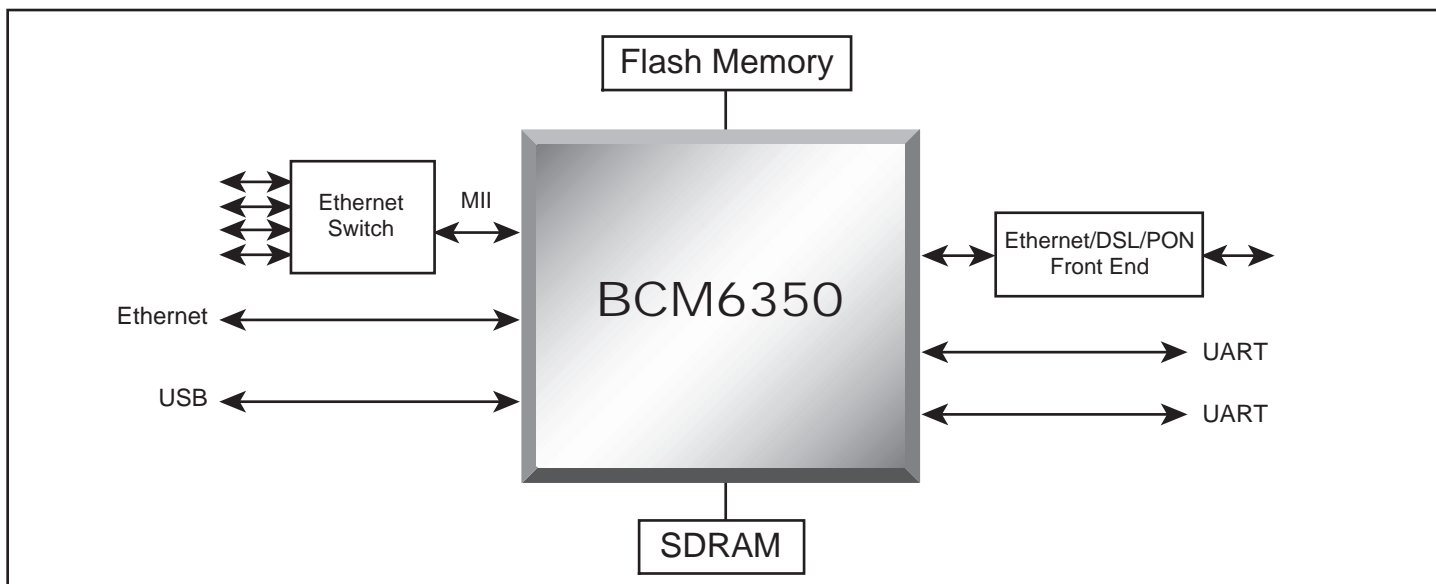
### BCM6350 FEATURES

- High-performance MIPS32™ CPU
- High-speed UTOPIA I/II standard interface
- Hardware accelerated HDLC bit-synchronous interface with integrated framer
- High-speed hardware ATM SAR with acceleration for AAL adaption layers and VCCs
- High-speed, glueless multi-peripheral expansion bus
- Hardware acceleration for packet inspection, classification, and encryption
- Two-port 10/100 Ethernet switch with hardware support for high-speed MII, auto-MDIX, VLAN tagging, and quality of service (QoS)
- 12 Mbps USB 1.1-compliant interface
- Extensive chip power management
- 1.8/3.3 V operation
- Complete board support packages, protocol and application stacks for Linux™ and VxWorks® environments
- Complete documentation support including reference design bill of materials, Gerber files, schematic drawings, and application notes

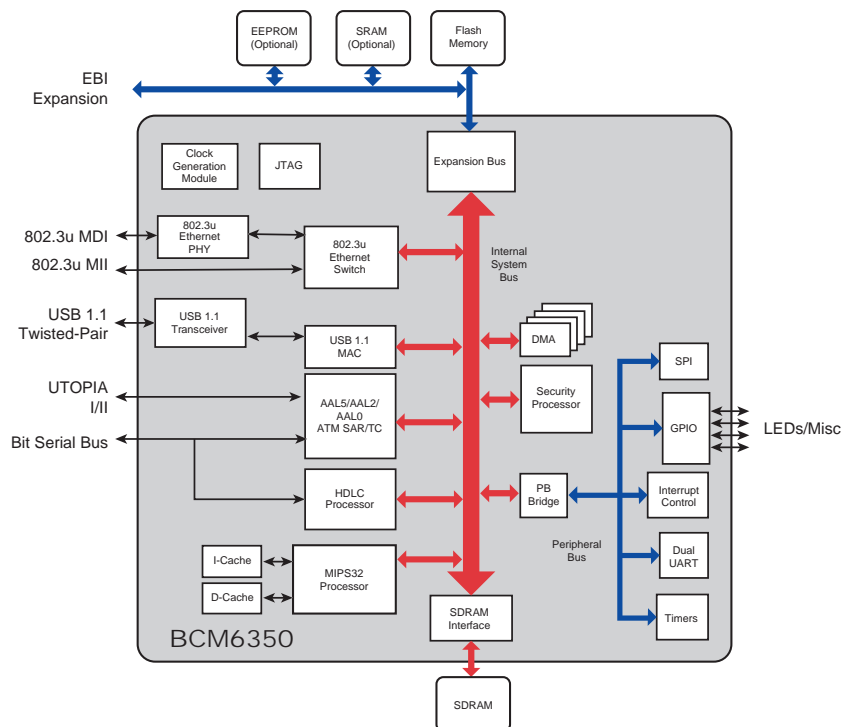
### SUMMARY OF BENEFITS

- High clock rate MIPS™ processor supports CPU-intensive wire speed routing on multiple ports, business-class firewall, and virtual private network applications.
- Multiple industry-standard high-speed chip interfaces provide design flexibility.
- ATM, IPSec, and HDLC hardware acceleration engines reduce CPU processing requirements and improve throughput.
- High-speed expansion bus supports seamless connectivity to Broadcom and third party solutions for home networking, wireless, security, switching, and custom ASICs.
- Industry-leading Ethernet technology for auto-MDIX, VLAN, and QoS provide advanced functionality for business applications while reducing support costs.
- USB port provides single user LAN connectivity to PCs without Ethernet adapters.
- All integrated peripherals may be toggled on or off through software, allowing operation in extremely low power operation.
- Complete documentation and software stacks for leading operating systems reduces time-to-market.

BCM6350-based Security-enabled Ethernet, DSL, or PON CPE



# BCM6350 OVERVIEW



The **BCM6350** is a highly integrated system-on-chip solution for security-enabled Ethernet, DSL, and PON (passive optical network) CPE. It combines the power of a high clock-rate 32-bit MIPS CPU with hardware acceleration for ATM, HDLC, and security processing to spare the CPU for customer-differentiating, value-added software applications.

In addition to the hardware ATM, HDLC, and security acceleration, the **BCM6350** integrates a two-port 10/100 Mbps Ethernet switch with support for line-rate WAN-to-LAN routing, an MII interface to seamlessly connect switch chips, extensive hardware and software support for VLAN tagging, QoS functionality to support business class routing applications, and features like auto-MDIX to minimize Ethernet support issues.

The **BCM6350** also provides a USB 1.1-compliant interface, two UART ports and a host of industry-standard I/O ports. The USB port functions as a LAN connection for a single Windows®-based PC. The UARTs can be used for console, modem or debug ports.

The **BCM6350** provides a high-speed multi-peripheral expansion bus to extend connectivity options to 802.11, Bluetooth™, HPNA, Ethernet, and other networking technologies from Broadcom and third party vendors.

The **BCM6350** is provided with a complete software stack and documentation to enable rapid hardware and software application development. Extensive online support is available to ensure efficient development of next-generation, security-enabled Ethernet, DSL, and PON CPE solutions.

For more information, please contact your Broadcom sales representative or Marc Abrams (mabrams@broadcom.com) at 949-585-5208.

**Broadcom®**, the pulse logo® and **Connecting Everything™** are trademarks of Broadcom Corporation and/or its subsidiaries in the United States and certain other countries. All other trademarks are the property of their respective owners.

Connecting  
everything™



BROADCOM CORPORATION  
16215 Alton Parkway, P.O. Box 57013  
Irvine, California 92619-7013  
© 2002 by BROADCOM CORPORATION. All rights reserved.  
6350-PB00-R-5.22.02

Phone: 949-450-8700  
FAX: 949-450-8710  
Email: info@broadcom.com  
Web: www.broadcom.com