BROADCOM®

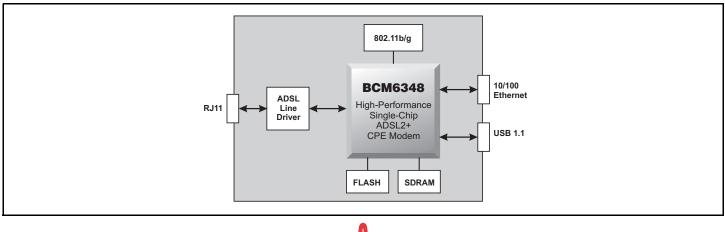Connecting
everything®

BCM6348
PRODUCT Brief

BCM6348 SINGLE-CHIP ADSL2+ CPE CHIP

FEATURES

- Single-chip ADSL2+ CPE device with integrated CPU, transceiver and AFE

- Standards compliant for worldwide G.992.1/G.992.2/ G.992.3/G.992.5/T1.413 (Issue II) deployments supporting Annex A, B C, J, I, L, and M

- High-performance MIPS32™ CPU with MMU and TLB support

- Hardware ATM SAR for enhanced ATM VC management, traffic shaping, and QoS

- Two 10/100-Mbps IEEE 802.3u Ethernet MACs and one PHY with auto-MDIX

- Configurable USB host and device interface with integrated transceiver

- Multi-format peripheral expansion bus with PCI, mini-PCI, CardBus, and PCMCIA support

- Serial and parallel FLASH support and high-speed SDRAM interface

- Extensive on-board chip power management, EJTAG, GPIO, and UART

- 1.2-mm package ball pitch for reduced PCB design complexity

- Complete protocol and application software support package

SUMMARY OF BENEFITS

- Unmatched integration greatly reduces bill of materials cost to enable lowest possible product cost for worldwide deployment of ADSL modems, routers, and gateways

- High-resolution A/D and D/A converters minimizes system bill of materials costs by reducing the need for external filtering

- High-performance MIPS32 CPU supports advanced application development and future downloadable service models with industry-standard tool chains and operating systems

- Support for wire-speed bridging and routing between ADSL and LAN interfaces on a single-chip significantly reduces development time, decreases time-to-market, and increases product flexibility

- Two 10/100-Mbps Ethernet MACs with MII and one 10/ 100-Mbps Ethernet PHY interface with auto-MDIX supports true Ethernet-to-Ethernet bridging and routing as well as DMZ interface applications

- Dual USB host and device interfaces enable simultaneous Plug and Play connection of PCs and peripheral devices including printers and hard disks

- High-speed external bus with industry standard PCI, mini-PCI, CardBus, and PCMCIA support provides glueless interface to Broadcom and 3rd party voice, WiFi®, security, video encoding and decoding and other peripheral chipsets

- Broadcom-enhanced protocol and applications software provides consistent, proven software architecture across all Broadcom DSL CPE and PON ONT chipsets

BCM6348-Based ADSL2+ CPE Modem

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