



NETLINK™ BCM5788(M) PRODUCT Brief



SINGLE-CHIP 32-BIT PCI GIGABIT CONTROLLER WITH PHY

FEATURES

- **Single chip device for both notebook and desktop LAN on Motherboard (LOM) or Network Interface Card (NIC) applications**
- **Integrated 10/100/1000BASE-T transceiver**
 - 10/100/1000BASE-T triple-speed MAC
 - PCI v2.2, 32-bit/33-MHz host interface
- **Advanced power management, ACPI compliance**
- **Performance features**
 - TCP, IP, UDP checksum
 - CPU task offload
 - Adaptive interrupts
- **Robust manageability**
 - Wake-on LAN (WOL)
 - Out-of-box mode WOL
 - PXE 2.0 remote boot
- **3.3V I/Os (5V tolerant)**
- **JTAG**
- **Industry's smallest 10/100/1000 MAC+PHY solution that is optimized for notebook and desktop NIC and LOM applications**

SUMMARY OF BENEFITS

- **Ultra-low power for notebook designs**
 - 0.13 μ CMOS design allows industry's lowest power
 - Advanced power management
- **Enables notebook and desktop PC products for all segments**
 - Footprint-compatible with 4401, a 10/100 companion chip
 - Allows one board layout for both Gigabit and Fast Ethernet applications
- **Power optimized through reduced CPU utilization**
 - Adaptive interrupts minimizes calls to the PC's CPU
 - TCP/IP offloads reduce CPU burden significantly
 - Reduces power consumption of PC processor
 - Allows use of lower power/performance PC processor
- **Space savings for LOM**
 - 196-pin HBGA package
 - No external memory
 - Integrated power circuitry reduces BOM costs

