

NETLINK™ BCM5788(M)





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
 - 0.13µ 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

