



# 10/100BASE-TX OCTAL-Φ™ TRANSCEIVER

## BCM5238 FEATURES

- Single-chip, eight-port Fast Ethernet transceiver
- Low-power 1.8V CMOS technology
- Serial Media Independent Interface (SMII)
- Source Synchronous SMII (SSSMII)
- HP Auto-MDIX automatic crossover
- Compatible with 2.5V I/O and 3.3V I/O
- Fully integrated digital adaptive equalization
- Up to 150 meters of error-free operation
- Full-duplex support
- Interrupt output capability
- 128-pin PQFP or 256-ball BGA package
- Proven Broadcom proprietary all-DSP Digi-Φ™ architecture

## SUMMARY OF BENEFITS

- Target usage: Fast Ethernet switches.
- Lowest per port power solution available: < 215 milliwatts per port.
- Smallest footprint per port available.
- Measures 14 mm ∞ 20 mm for eight ports.
- Single-chip device contains eight independent Fast Ethernet transceivers.
- Performs all physical layer interface functions for 100BASE-TX full-duplex or half-duplex Ethernet on Category 5 unshielded twisted-pair (UTP) cable and 10BASE-T full or half-duplex Ethernet on Category 3, 4, or 5 UTP cable.
- Compliant with IEEE 802.3 standard.
- IEEE 1149.1 (JTAG) scan chain support.
- Two LED indicator pins per port.

### 24-Port 10/100 Switch

