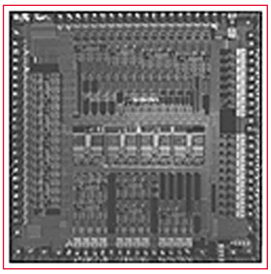
BROADCOM®

Connecting everything®

BCM5228 PRODUCT Brief

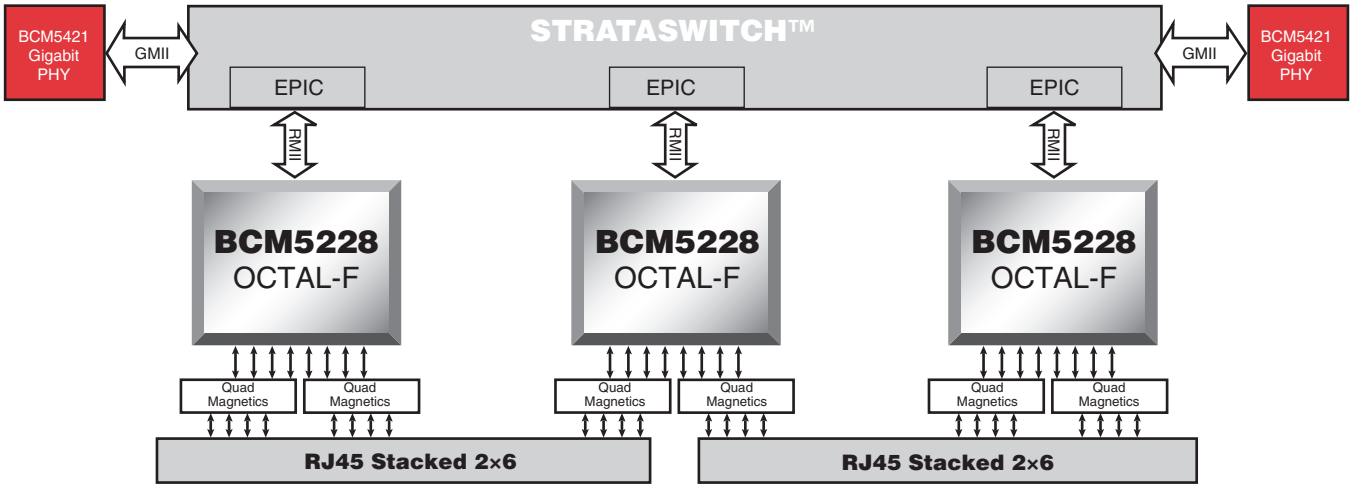


10/100BASE-TX/FX OCTAL - Φ™ TRANSCEIVER

BCM5228 FEATURES

- Single-chip, eight-port Fast Ethernet transceiver
- HP Auto-MDIX
- Low-power 2.5V CMOS technology
- Compatible with 2.5V I/O and 3.3V I/O
- Reduced Media Independent Interface (RMII)
- Serial Media Independent Interface (SMII)
- Fully integrated digital adaptive equalization
- Up to 150 meters of error-free operation
- Full-duplex support
- Twisted-pair or fiber support on any or all ports
- Interrupt output capability
- 208-pin PQFP or 256-pin FBGA package
- Proven Broadcom proprietary All-DSP Digi-Φ™ architecture

SUMMARY OF BENEFITS

- Target usage: Fast Ethernet switches
- Smallest footprint per port available
- HP Auto-MDIX detects and corrects cabling errors
- Measures 17 mm × 17 mm for eight ports
- Single-chip device contains eight independent Fast Ethernet transceivers
- Performs all physical layer interface functions for 100BASE-TX full- or half-duplex Ethernet on Category 5 unshielded twisted-pair (UTP) cable and 10BASE-T full-duplex or half-duplex Ethernet on Category 3, 4, or 5 UTP cable
- Permits transmission over fiber-optic cabling when paired with an external fiber-optic transceiver
- Compliant with IEEE 802.3 standard
- IEEE 1149.1 (JTAG) scan chain support
- Three LED indicator pins per port
- Onboard cable length meter reports the link distance for each port

24-Port 10/100 Switch