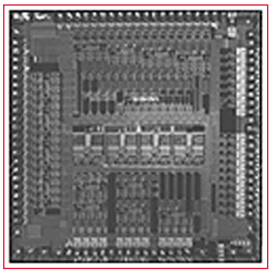
BROADCOM®
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BCM5318 PRODUCT Brief



8-PORT 10/100 SWITCH WITH ON-CHIP PACKET BUFFER

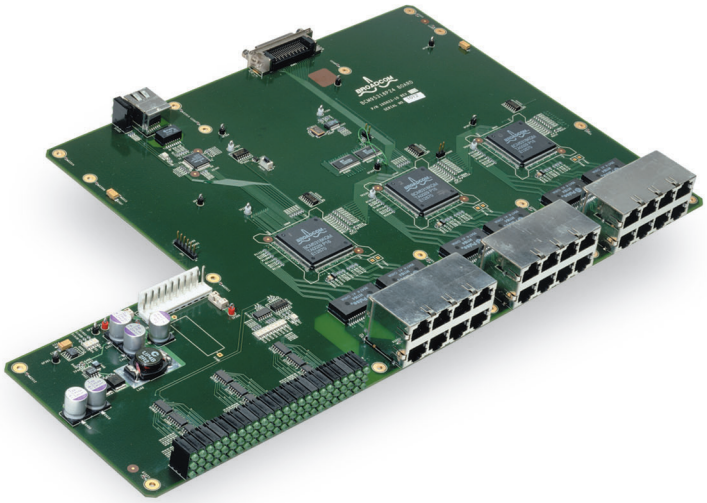
BCM5318 FEATURES

- **The world's first single-chip switch**
- **The highest level of silicon integration achieved for an 8-port 10/100 Ethernet switch device:**
  - Eight transceivers (802.3u compliant)
  - Nine media access controllers (802.x compliant)
  - 256 KB packet buffer
  - Non-blocking switch fabric
- **Non-blocking up to 24 ports through a 2.6-Gbps expansion port, cascading up to three devices**
- **MII interface supports an additional 100FX or 100TX connection, enabling a ninth user port**
- **Supports up to 4K MAC Addresses**
- **Flow control: full-duplex (802.3x) and half-duplex options supported**
- **Supports automatic address learning and aging**
- **Typical power consumption: 2.8W**
- **208-pin PQFP package**
- **Optional management features:**
  - Low-cost MIB Autocast™ function
  - Hardware support for Simple Network Management Protocol (SNMP), Remote Network Monitoring (RMON) and Spanning Tree

SUMMARY OF BENEFITS

- **Enables a new generation of lower cost 10/100 switches in much smaller form factors.**
- **Utilizes field-proven industry-standard 10BASE-T/100BASE-TX Fast Ethernet transceivers–lowering overall system interoperability and reliability risks.**
- **Flexible interfaces support a wider variety of application needs–fiber for long distances or an additional 100TX port.**
- **Sufficient address range handles all remote office, branch office and home office needs.**
- **Flexible architecture enables high engineering leverage when designing multiple platforms.**
- **CPUs are not required to initialize and run in cost-sensitive unmanaged applications–providing true Plug and Play connectivity.**
- **Very low power and small footprint enables more cost-effective system options.**
- **Ability to gather and support basic management statistics with only a very low-cost microcontroller.**
- **Low-cost management via the on-chip MIB registers allows the collection and transmission of statistics for each port and allows an upward migration path for corporate users.**
- **On-chip HP auto-MDI/MDIX feature automatically detects and corrects for crossover cables and allows direct switch-to-switch connection.**

24-Port Unmanaged 10/100 Switch



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