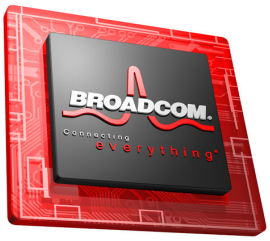
BROADCOM®
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BCM5222 PRODUCT Brief



10/100BASE-TX DUAL-PORT DIGI-PHY™ TRANSCEIVER

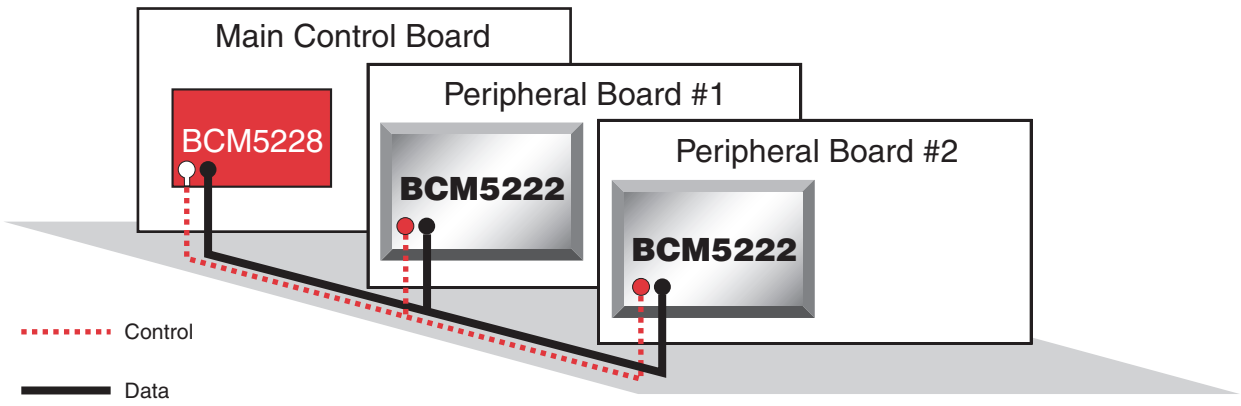
FEATURES

- **Dual-port 10/100BASE-TX IEEE 802.3u Fast Ethernet transceiver**
- **Power consumption: <195 mW per port**
- **Unique energy detection circuit to enable intelligent power management**
- **HP auto-MDIX**
- **Robust CESD tolerance**
- **Cable length indication**
- **Cable noise level indication**
- **Cable length greater than 140 meters**
- **Well under 10 PPM defect ratio quality**
- **Industrial temperature range (-40 to 85C°)**
- **MII/7-wire serial interface**
- **IEEE 1149.1 (JTAG) scan chain support**
- **MII management via serial port**
- **100-pin PQFP and 100-pin fpBGA package**

SUMMARY OF BENEFITS

- **Low power and intelligent power management**
  - Increase active working time
  - Prolonge battery life in active standby
  - Increase reliability
- **Improved ease of use and installation, reduced support cost**
  - Straight-through or cross-over cables accommodate independent of installation
  - Resistance to CESD prevent product destruction and product returns
  - Advanced cable diagnostic features enable remote monitoring and debugging of cabling infrastructure
- **DSP-based Digi-PHY™ architecture ensures performance over temperature, voltage, and process variation**
  - Proven in over 450,000,000 Fast Ethernet ports
- **Provides ease of manufacturing with JTAG support**
- **Enables simplified system and board design with MAC interface and packaging options**

Backplane Bus Communication 10/100BASE-TX Application



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