



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
 - Prolong 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

