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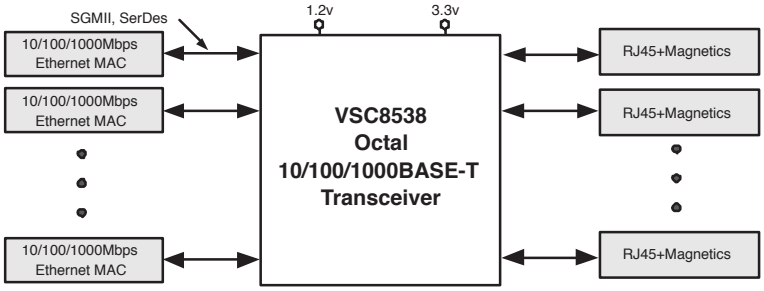
ETHERNET PRODUCTS

VSC8538

VITESSE®

Octal Port 10/100/1000BASE-T PHY

APPLICATION DIAGRAM:



FEATURES:	BENEFITS:
Extremely Low Power Consumption of 650mW / port (1000BASE-T mode) Enables Use of 27mm, 444-pin HS-BGA Package	Lowers System Cost, Simplifies System Design, and Enables Single Row, High Port Density Switches
Patented, Low EMI Line Driver with Integrated Line Side Termination Resistors	Removes 384 Passive Components in 48-port Switch Applications
Compliant with IEEE 802.3 (10BASE-T, 100BASE-TX, 1000BASE-T, 1000BASE-X) Specifications	Ensures Seemless Deployment Throughout Copper Networks with Industry's Highest Tolerance to Noise and Substandard Cabling
>16kB Jumbo Frame Support In All Speeds with Programmable Synchronization FIFOs	Provides for Maximum Jumbo Frame Sizes in Custom SAN and LAN Systems
Four Programmable Direct Drive LEDs per Port with On-chip Filtering and Bi-Color LED Support	Eliminates External Components and Reduces EMI
Serial LED Interface Option	Provides Maximum System Design Flexibility
Extensive Testability Features (Including Near End, Far End, and Connector Loopback, and Ethernet Packet Generator with CRC Error Counter)	Decrease System Development Costs and System Deployment Costs, and Improve Time-to-Market
Supports Cisco SGMII v1.7 and 1000BASE-X MACs, IEEE 1149.1 JTAG Boundary Scan, and IEEE 1149.6 AC-JTAG	Multiple MAC Interfaces and Extensive JTAG Support Ease Manfacturing
VeriPHY™ Cable Diagnotistcs	Enable Network Manufacturers to Simplify Deployment and Improve Network Management Capabilities of Gigabit Ethernet Links

APPLICATIONS:

- 10/100/1000BASE-T Switches
- Gigabit Ethernet-based SAN, NAS, and MAN Systems
- ATCA™ 3.0 and PICMG™ 2.16 Ethernet Backplane Applications
- Multi-port Fiber to CAT-5 Media Converters

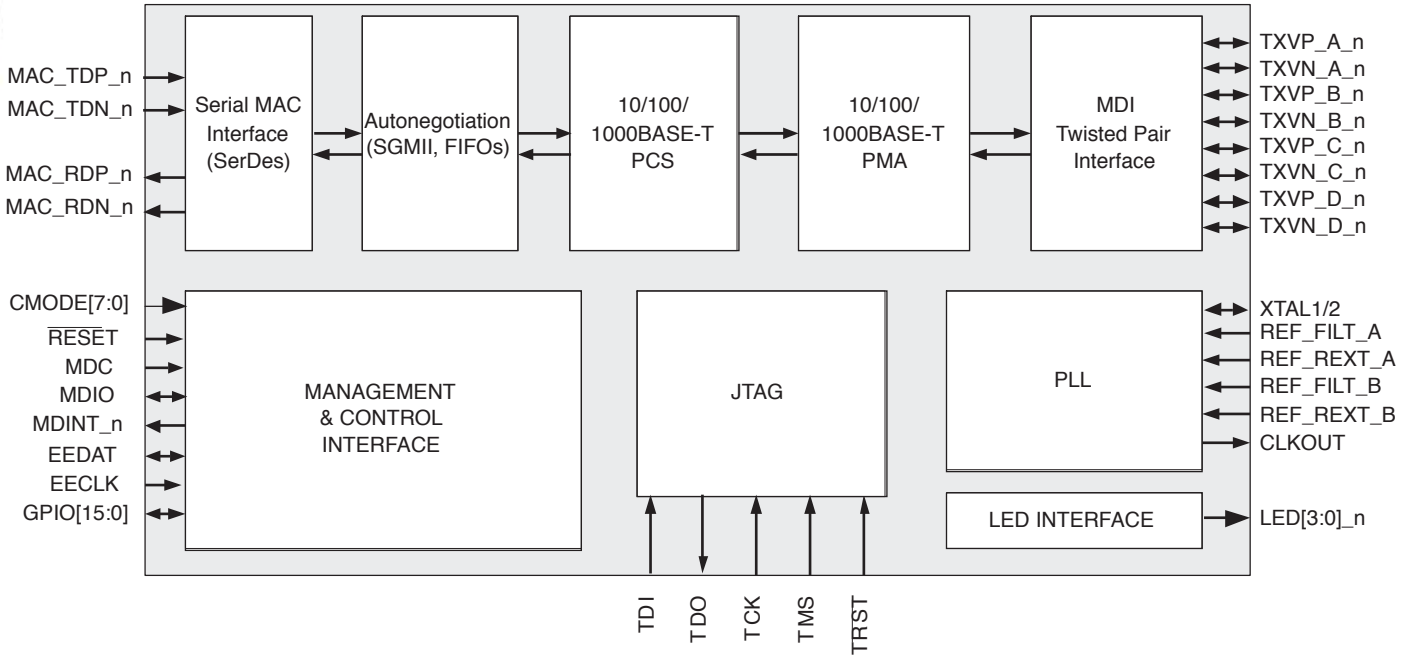
VSC8538

Octal Port 10/100/1000BASE-T PHY

GENERAL DESCRIPTION:

The VSC8538 is a low power octal Gigabit Ethernet transceiver ideal for mulit-port switch and router applications. The device's compact BGA package is optimal for high-density switch applications. Vitesse's mixed signal and DSP architecture yield robust performance, supporting both full and half duplex 10BASE-T, 100BASE-TX, and 1000BASE-T over >140m of Category 5, unshielded twisted pair (UTP) cable, with industry leading tolerance to NEXT, FEXT, Echo, and system noise.

BLOCK DIAGRAM:



For more information on Vitesse Products visit the Vitesse web site at www.vitesse.com or contact Vitesse Sales at (800) VITESSE or sales@vitesse.com

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