

VSC8248

Quad Port 8.5 Gbps to 11.3 Gbps CDR with EDC and KR Output

Flexibility

- MDIO, two-wire serial master, and two-wire serial slave interfaces
- Embedded microcontroller with on-board RAM for reduced system chip count
- Rx EDC programmable to user-defined values or adaptive mode operation
- Output pre-emphasis and signal programming for optimized signal integrity
- VScope™ input signal quality monitor integrated circuit for optimal eye opening and lower BER
- Power-on reset initializes default mode independently of the serial interface
- Independent per-channel operation and power-down
- Host-side and line-side loopbacks and BIST

Key Specifications

- 1.8 V and 1.2 V typical core power supplies (1.2 V to 3.3 V TTL supply)
- 16 mm × 16 mm, 225-pin FCBGA package

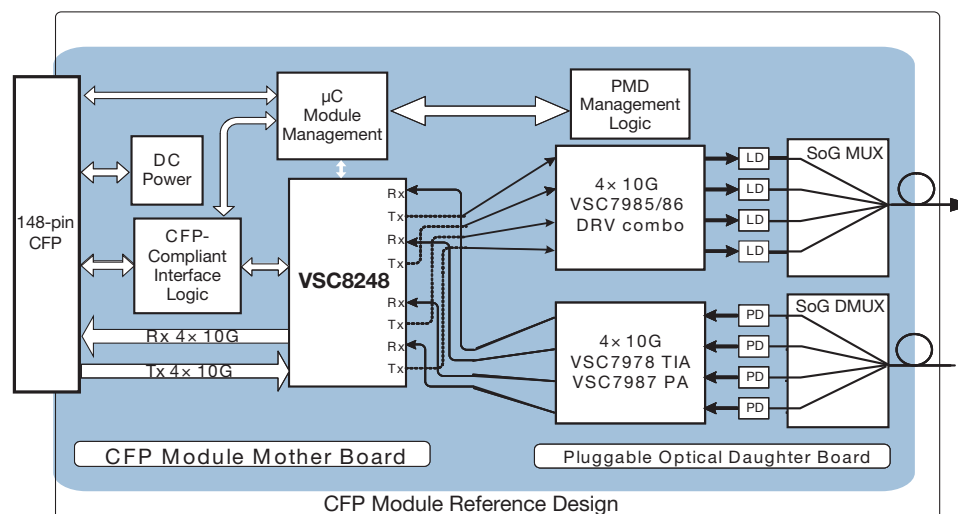
Wide Range of Support

- 8.5G to 11.3G Ethernet
- Legacy 1.25G Ethernet, 2G and 4G Fibre Channel, and 2.5G and 5G Infiniband
- Compliant with IEEE 802.3aq, IEEE 802.3ae, and SFF-8431 (SFI) electrical specifications
- Supports all SFP+ application codes and copper links

Related Products

Visit www.microsemi.com for information about these related products:

- VSC3144 6.5 Gbps or 10.709 Gbps 144 × 144 Asynchronous Crosspoint Switch
- VSC3316 11.5 Gbps 16 × 16 Crosspoint Switch and Signal Conditioner
- VSC8484 and VSC8488 10 Gbps LAN/WAN PHY
- VSC7985 and VSC7986 10 Gbps VCSEL/DML Drivers
- VSC7987 10 Gbps Multirate Limiting Post Amplifier



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