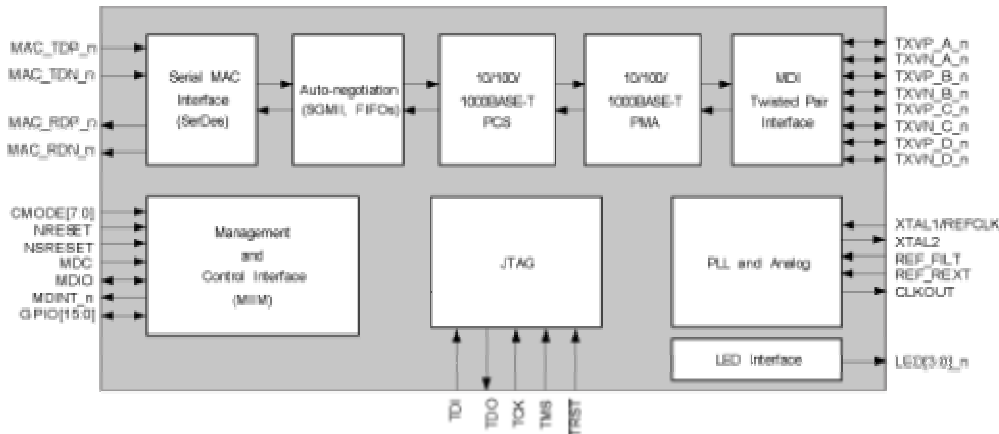




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Quad 10/100/1000BASE-T Transceiver



The VSC8634 is a low-power quad Gigabit Ethernet transceiver ideal for high-density switch and router applications. The device's compact package is optimal for multiport 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 >140 meters of Cat5, unshielded twisted pair cable, with industry leading tolerance to NEXT, FEXT, Echo, and system noise.

Key Features

- Low power consumption of 648 mW per port in 1000BASE-T mode
- Compliant with IEEE 802.3 (10BASE-T, 100BASE-TX, and 1000BASE-T) specifications
- Low EMI line driver with integrated line side termination resistors
- ActiPHY™ power management system with built-in intelligence and saving modes

Applications

- ATCA™ 3.0 and PICMG™ 2.16 Ethernet backplane applications
- Tri-speed media 10/100/1000BASE-T systems

Press Release

- Vitesse Announces Availability of Breakthrough Crosspoint Switch

Related Products

- Ethernet Switches

- Ethernet MACs

Product Variants	Description
VSC8634XIC	256-pin 17x17mm PBGA package, Pb-free second-level interconnect

Category	Title	Access	Revision	Posted	Type	Size
Product Brief	Energy Efficient Solutions for Ethernet Electronics		1.1	10/01/2008		460 kB
Product Brief	VSC8634 Product Brief		1.2	04/25/2008		2 MB
Datasheet	VSC8634 Datasheet		4.1	06/10/2009		751 kB
Application Note	ActiPHY Power Management		1.0	07/01/2009		76 kB
Application Note	Magnetics Guide		1.2	07/01/2009		373 kB
Application Note	PMA Testing for 100/1000BASE-T		1.0	07/01/2009		231 kB
Application Note	Transformerless Ethernet Designs		1.1	07/01/2009		81 kB
Application Note	VeriPHY Cable Diagnostics		1.0	07/01/2009		108 kB
Application Note	VSC8634 PCB Design and Layout Guide		1.0	04/25/2008		157 kB
User Guide	Copper PHY Bring Up Guide		1.0	07/21/2009		76 kB
Model	OrCAD Symbol		1.0	04/25/2008		5 kB
Model	SPICE Model		1.0	05/23/2008		1 MB
Model	VSC8634 BSDL File		1.1	06/16/2009		7 kB
Reference Design	Reference Design Schematics for VSC8664 and VSC8634		0.2	04/25/2008		1 MB
Software	PHY API Software and Programmers Guide		2.44	03/09/2009		109 kB
Reports	VSC8654IC, VSC8634IC, VSC8664IC and VSC8664IC-03 Material Composition Declaration		2.0	07/22/2009		1 MB
Reports	VSC8654XIC, VSC8634XIC, VSC8664XIC and VSC8664XIC-03 Material Composition Declaration		1.0	02/17/2009		1 MB
Reports	VSC8654XIC, VSC8634XIC, VSC8664XIC and VSC8664XIC-03 Material Composition Declaration		1.0	10/15/2008		1 MB
	First Level Product Qualification Report for					26

Reports	VSC8634IC		1.0	04/15/2009		kB
Reports	First Level Product Qualification Report for VSC8634IC-03		1.0	04/15/2009		26 kB
Reports	First Level Product Qualification Report for VSC8634XIC		1.0	04/15/2009		26 kB
Reports	First Level Product Qualification Report for VSC8634XIC-03		1.0	04/15/2009		26 kB
Reports	UNH Reports		2.1	05/20/2009		6 MB

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