

PRODUCTS

Enterprise Ethernet Switches

Ethernet Switching

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Physical Layer

Software

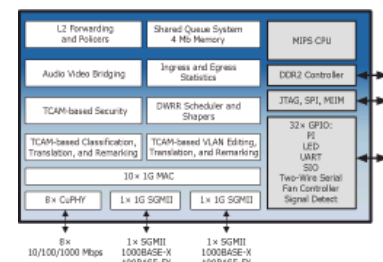
Intellectual Property

Signal Integrity

Legacy

10-Port Layer-2 Gigabit Ethernet Switch with 8 Fully Integrated Copper PHYs and Embedded 416 MHz CPU

The VSC7424 is the industry's first fully integrated 10-port Gigabit Ethernet (GE) switch with eight copper PHYs in a single package. The VSC7424 leverages Vitesse's new 65 nm SimpliPHY™ technology, resulting in the one of the most cost-effective and lowest power consumption devices in the industry. The single-chip solution combines the most advanced [IEEE 802.3az Energy Efficient Ethernet](#) features for bringing green technology solutions to market. The VSC7424 provides a rich set of Small Medium Enterprise (SME) Ethernet switching features such as Layer-2 forwarding with advanced TCAM-based VLAN and QoS processing, enabling the delivery of differentiated services. Security is ensured through frame processing using a TCAM-based Vitesse Content Aware Processor (VCAP-II). The VSC7424 contains a powerful 416 MHz CPU, enabling full management of the switch. A comprehensive [application programming interface \(API\) and software development package](#) is available for Layer-2 Managed Ethernet applications for faster time-to-market. The software API package integrates easily with third-party software, preserving existing software investments.



Product Variants	Description
VSC7424XJG-02	Latest generation 672-pin 27 x 27 mm BGA lead-free second-level interconnect
VSC7424XJG-01	[Obsolete] Second generation 672-pin 27 x 27 mm BGA lead-free second-level interconnect
VSC7424XJG	[Obsolete] First generation 672-pin 27 x 27 mm BGA lead-free second-level interconnect

— Key Features

- Supports IEEE 802.3az and green energy efficiency modes with ActiPHY™ and PerfectReach™
- Lowest BOM solution requires only one IC
- Up to two SGMII ports with 100Mbps and 1Gbps fiber support

+ Applications

+ Related Products

ADDITIONAL RESOURCES

Add to Cart	Category	Title	Access	Version	Posted	Type	Size
☐	Product Brief	VSC6812 and VSC6813 Product Brief		1.5	07/29/2014		436 kB
☐	Product Brief	VSC7424 Product Brief		1.0	05/31/2010		665 kB
☐	Datasheet	VSC7424, VSC7425, VSC7426, and VSC7427 SparX-III Datasheet		4.0	10/28/2011		5 MB
☐	Datasheet	VSC7424-01, VSC7425-01, VSC7426-01, and VSC7427-01 SparX-III Datasheet		4.0	08/16/2012		9 MB
☐	Datasheet	VSC7424-02, VSC7425-02, VSC7426-02, and VSC7427-02 SparX-III Datasheet		4.1	09/30/2014		9 MB
☐	Application Note	Magnetics Guide		2.0	02/06/2014		626 kB
☐	Application Note	AN1015 Using the SparX-III Serial GPIO/LED Controller		1.0	01/27/2015		2 MB
☐	Reference Design	Reference Design 8 Cu ports + 2 SFP Managed Switch		2.2	09/21/2012		40 MB
☐	Software	eCos Operating System		3.30	12/02/2014		22 MB
☐	Software	Embedded Configurable Operating System (eCos-3.0) Vitesse repository and arm-elf tools		3.0	06/07/2012		66 MB
☐	Software	WebStaX, SMBStaX, and CEServices Release Notes (3.4X branch)		3.42b	12/22/2014		183 kB
☐	White Paper	New Object-Oriented Paradigm Accelerates Storage Network Shift to Ethernet		1.0	07/21/2014		1 MB
☐	Reports	VSC7423XJG-02, VSC7424XJG-02, VSC7425XJG-02, VSC7426XJG-02, VSC7427XJG-02, VSC7428XJG-02, VSC7428XJG-12, VSC7429XJG-02, VSC8512XJG-02 and VSC8512XJG-03 Material Composition Declaration - (Pd/Au Coated Cu Wire)		3.0	06/25/2014		21 kB
☐	Reports	VSC7423XJG-02, VSC7424XJG-02, VSC7425XJG-02, VSC7426XJG-02, VSC7427XJG-02, VSC7428XJG-02, VSC7429XJG-02, VSC8512XJG-02 and VSC8512XJG-03 Material Composition Declaration - Cu Wire		4.0	08/20/2013		22 kB

	Reports	VSC7424XJG-01, VSC7425XJG-01, VSC7426XJG-01, VSC7427XJG-01, VSC7428XJG-01, VSC7429XJG-01, VSC8512XJG-01 Material Composition Declaration - Au Wire		1.0	04/13/2012		22 kB
	Reports	First Level Product Qualification Report for VSC7424XJG-02 - Amkor		2.0	09/18/2014		73 kB
	Reports	First Level Product Qualification Report for VSC7424XJG-02 - ASE (Pd/Au Coated Cu Wire)		2.0	09/23/2014		85 kB
	Reports	First Level Product Qualification Report for VSC7424XJG-02 - Cu Wire		5.0	09/23/2014		85 kB
	Reports	VSC7423XJG-02, VSC7424XJG-02, VSC7425XJG-02, VSC7426XJG-02, VSC7427XJG-02, VSC7428XJG-02, VSC7428XJG-12, VSC7429XJG-02, VSC8512XJG-02, VSC8512XJG-03 Material Composition Declaration - Amkor		1.0	08/06/2014		20 kB
	Application Note	AN1139 Code Size Adjustment		1.0	01/30/2015		-
	Application Note	AN1137 Double VLAN Tag Management Configuration		1.0	01/30/2015		-
	Application Note	AN1135 IP Multicast Configuration		1.0	01/30/2015		-
	Application Note	AN1126 JSON-RPC		1.2	01/21/2015		-
	Application Note	AN1134 LLDP Configuration		1.0	01/30/2015		-

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