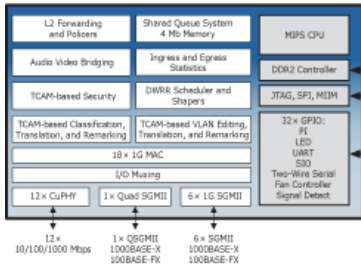


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18-Port Layer-2 Gigabit Ethernet Switch with 12 Fully Integrated Copper PHYs and Embedded 416 MHz CPU



The VSC7425 is the industry's first fully integrated 18-port Gigabit Ethernet switch with 12 copper PHYs in a single package. In conjunction with Vitesse's 4-port PHY VSC8634 or VSC8664, an 18-port switch can be designed using only two ICs. The VSC7425 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 dual chip solution combines the most advanced Ethernet energy efficiency features for bringing green technology solutions to market. The VSC7425 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 VSC7425 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
VSC7425XJG-02	Latest generation 672-pin 27 x 27 mm BGA lead-free second-level interconnect
VSC7425XJG-01	Second generation 672-pin 27 x 27 mm BGA lead-free second-level interconnect
VSC7425XJG	First generation 672-pin 27 x 27 mm BGA lead-free second-level interconnect

Add to Cart	Category	Title	Access	Revision	Posted	Type	Size
<input type="checkbox"/>	Product Brief	VSC7425 Product Brief		1.0	05/31/2010		668 kB
<input type="checkbox"/>	Product Brief	WebStaX and SMBStaX Product Brief		1.2	08/05/2011		195 kB
<input type="checkbox"/>	Datasheet	VSC7424, VSC7425, VSC7426, and VSC7427 SparX-III Datasheet		4.0	10/28/2011		5 MB
<input type="checkbox"/>	Datasheet	VSC7424-01, VSC7425-01, VSC7426-01, and VSC7427-01 SparX-III Datasheet		4.0	08/16/2012		9 MB
<input type="checkbox"/>	Datasheet	VSC7424-02, VSC7425-02, VSC7426-02, and VSC7427-02 SparX-III Datasheet		4.0	10/16/2012		9 MB
<input type="checkbox"/>	Application Note	Magnetics Guide		2.0	06/27/2012		626 kB
<input type="checkbox"/>	Application Note	Using the SparX-III Serial GPIO/LED Controller		1.0	08/02/2012		2 MB
<input type="checkbox"/>	Application Note	Vitesse Linux BSP		1.1	12/14/2010		155 kB
<input type="checkbox"/>	Reference Design	Reference Design 24 Cu ports + 2 SFP Managed Switch and PHY		2.3	10/01/2012		61 MB
<input type="checkbox"/>	Software	Embedded Configurable Operating System (eCos-3.0) Vitesse repository and arm-elf tools		3.0	06/07/2012		66 MB
<input type="checkbox"/>	Software	Vitesse Linux BSP		2.2	12/13/2010		8 MB
<input type="checkbox"/>	Software	API Release Notes		4.30	07/22/2013		26 kB
<input type="checkbox"/>	Software	eCos Operating System		1.0	06/20/2013		21 MB
<input type="checkbox"/>	Software	WebStaX, SMBStaX, and CEServices Release Notes		3.30	07/22/2013		128 kB
<input type="checkbox"/>	Software	WebStaX-III, SMBStaX-III, and CEServices Release Note		2.80f	11/27/2012		78 kB

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Key Features

- Supports IEEE 802.3az and green energy efficiency modes with ActiPHY™ and PerfectReach™
- Lowest BOM solution requires only two ICs
- One QSGMII MAC interface and up to six SGMII ports with 100 Mbps and 1 Gbps fiber support

Applications

- Customer-premises equipment (CPE) and network termination equipment (NTE)
- Edge and Access platforms
- Ethernet switches

Feedback on this product?

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Vitesse CTO
on **4G LTE**
Network Timing

See the Video

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<input type="checkbox"/>	Reports	VSC7424XJG, VSC7425XJG, VSC7426XJG, VSC7427XJG, VSC7428XJG, VSC7429XJG and VSC8512XJG Material Composition Declaration - (A109160 Substrate)		2.0	10/10/2011		22 kB
<input type="checkbox"/>	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
<input type="checkbox"/>	Reports	First Level Product Qualification Report for VSC7425XJG-02 - Cu Wire		4.0	06/24/2013		88 kB