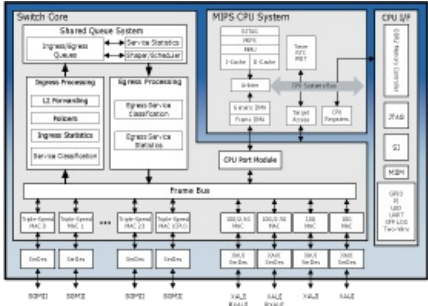




## Carrier-Ethernet-Switch-Engines

### 24-Port Carrier Ethernet Switch with ViSAA™, VeriTime™ and Layer-3 Routing



VSC7460 Jaguar-1™ is a Carrier Ethernet switch that contains 24 10/100/1000 Mbps Ethernet ports and four 10 Gbps XAUI Ethernet ports. Optionally, two XAUI ports can support up to eight 2.5 Gbps Ethernet ports. VSC7460 is based on [Vitesse Service Aware Architecture \(ViSAA™\)](#), a silicon implementation that offers an unmatched level of Service Edge and Carrier Ethernet Networking features. ViSAA achieves wirespeed performance for even the most feature-rich Carrier Ethernet (CE) services.

VSC7460 uses [VeriTime™](#), Vitesse's patent-pending distributed timing technology that delivers the industry's most accurate IEEE 1588v2 timing implementation. Advanced TCAM-based QoS processing using Vitesse's content-aware processing (VCAP-II) enables the delivery of differentiated services with per-service SLA guarantees. Comprehensive service and transport support are provided for networks

based on Provider Bridge, Provider Backbone Bridge (PBB), Provider Backbone Bridge with Traffic Engineering (PBB-TE), and Multiprotocol Label Switching (MPLS-TP) protocols. A powerful embedded MIPS processor, tightly integrated with Carrier Ethernet switch functions, enables the implementation of Ethernet OAM, VeriTime IEEE 1588v2 timing capability, and switch management using a single device, eliminating the need for an external processor in many cases. A comprehensive [application programming interface \(API\) and software package](#) are provided for switch applications. The software package integrates easily with third-party software, preserving existing software investments while adding new, enhanced carrier functionality.

Product Variants	Description
VSC7460YIH	672-pin 27 x 27 mm FCBGA lead-free
VSC7460XIH	[NRND] 672-pin 27 x 27 mm FCBGA lead-free second-level interconnect

Add to Cart	Category	Title	Access	Revision	Posted	Type	Size
<input type="checkbox"/>	Product Brief	<a href="#">VSC6810 Product Brief</a>		1.2	05/05/2014		513 KB
<input type="checkbox"/>	Product Brief	<a href="#">VSC7460 and VSC7462 Product Brief</a>		1.1	10/22/2010		666 KB
<input type="checkbox"/>	Datasheet	<a href="#">VSC7460 Jaguar-1 Datasheet</a>		4.2	01/31/2014		20 MB
<input type="checkbox"/>	Application Note	<a href="#">Multi-service and Ethernet Muxponders</a>		1.0	05/28/2010		288 KB
<input type="checkbox"/>	Application Note	<a href="#">Hardware-Based Up MEP OAM Support with ViSAA</a>		1.0	11/18/2013		221 KB
<input type="checkbox"/>	Application Note	<a href="#">IEEE1588 Configuration Guide</a>		1.0	04/04/2011		473 KB
<input type="checkbox"/>	Application Note	<a href="#">IEEE1588v2 and SyncE - Applications and Operation Using Vitesse's Synchronization Solution</a>		3.0	05/12/2014		2 MB
<input type="checkbox"/>	Application Note	<a href="#">Service OAM</a>		1.0	11/18/2010		550 KB
<input type="checkbox"/>	Application Note	<a href="#">Using the Jaguar Serial GPIO/LED Controller</a>		1.0	07/25/2012		3 MB
<input type="checkbox"/>	Model	<a href="#">BSDL Model</a>		1.0	05/20/2011		100 KB
<input type="checkbox"/>	Model	<a href="#">IBIS Model</a>		1.0	05/20/2011		459 KB
<input type="checkbox"/>	Reference Design	<a href="#">CE Reference Design 24GE SFP + 4x10G</a>		2.01	09/21/2012		44 MB
<input type="checkbox"/>	Reference Design	<a href="#">CE Reference Design 24xGE Cu + 4x10GE</a>		2.02	09/21/2012		36 MB
<input type="checkbox"/>	Software	<a href="#">Embedded Configurable Operating System (eCos-3.0) Vitesse repository and arm-elf tools</a>		3.0	06/07/2012		66 MB
<input type="checkbox"/>	Software	<a href="#">API Release Notes</a>		4.48	05/12/2014		35 KB
<input type="checkbox"/>	Software	<a href="#">eCos Operating System</a>		1.0	06/20/2013		21 MB
<input type="checkbox"/>	Software	<a href="#">WebStaX, SMBStaX and CEServices Release Notes</a>		3.42b	05/09/2014		183 KB
<input type="checkbox"/>	White Paper	<a href="#">Precise Timing for Base Stations in the Evolution to LTE</a>		00-04	02/19/2013		4 MB
<input type="checkbox"/>	White Paper	<a href="#">The Vitesse Service Aware Architecture (ViSAA) for Carrier Ethernet Switches</a>		1.0	05/30/2013		2 MB
<input type="checkbox"/>	White Paper	<a href="#">End-to-End Transport: The Complementary Nature of MPLS and Ethernet</a>		1.0	05/05/2010		86 KB
<input type="checkbox"/>	Reports	<a href="#">VSC7364XIH, VSC7366XIH, VSC7431XIH, VSC7432XIH, VSC7434XIH, VSC7460XIH and VSC7462XIH Material Composition Declaration</a>		3.0	10/01/2012		22 KB
<input type="checkbox"/>	Reports	<a href="#">VSC7431YIH, VSC7432YIH, VSC7434YIH, VSC7460YIH, VSC7462YIH Material Composition Declaration</a>		1.0	07/02/2014		34 KB
<input type="checkbox"/>	Reports	<a href="#">First Level Product Qualification Report for VSC7460XIH</a>		2.0	06/19/2013		74 KB
<input type="checkbox"/>	Reports	<a href="#">First Level Product Qualification Report for VSC7460YIH</a>		2.0	10/31/2013		74 KB
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#### Key Features

- Service-aware architecture
- Hierarchical quality of service (QoS)
- Integrated IEEE 1588 and Synchronous Ethernet network timing
- Ethernet OAM and protection switching

#### Applications

- Metro Ethernet transport (MSP, MSTP)
- Carrier Ethernet switch/router (CESR)
- Mobile wireless backhaul

#### Related Products

- [Ethernet-MACs](#)

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