

- Supports flexibility and management ideal for the small and mid-market enterprise
- Provides wire-speed Layer 2 performance
- Stackable to support for up to seven units and 168 10/100 ports



Vertical Horizon VH-2402S2 Workgroup Switch

Switch Architecture Ideally Suited to the Small to Mid-Market Enterprise

The Vertical Horizon VH-2402S2 Fast Ethernet switch provides 24 10/100 Mbps RJ45 ports and two option slots for expansion, plus a dedicated management slot. The option slots can be used for uplink connections to the data center or network core via 100Base-FX or 1000Base-X. The Vertical Horizon VH-2402SM2 offers the same configuration, but is bundled with a management module that can be configured via NetSight™ Atlas network management software, web, or Telnet. The Vertical Horizon VH-2402S2 is ideally positioned as a high-performance workgroup switch suitable for supporting network-intensive applications and high-volume file transfers. It may also be used in wiring closet and desktop edge switching applications of large corporations where Gigabit Ethernet is the desired backbone technology.

The Vertical Horizon offers a flexible architecture that enables it to be deployed as a standalone or stackable switch. When deployed in a stackable configuration, the VH-2402S2 (with the addition of the management module) or VH-2402SM2 can be managed as a single entity, providing for simple configuration and network troubleshooting.

Wire-Speed Layer 2 Performance and Standards-Based Switching Features

The Vertical Horizon VH-2402S2 provides wire-speed 10/100Base-TX performance for the connection of high-performance workstations, file servers, desktop switches, and shared access workgroup hubs. With a

switch bandwidth capacity of 16 Gbps and a forwarding throughput of 6.55 Mpps (single unit)/45.85 Mpps (seven-high stack), the VH-2402S2 is ideal for mission-critical applications like voice over IP, video multicasting and broadcasting, ERP, and CRM. The VH-2402S2 supports advanced features like 802.1p priority queuing, 802.1Q VLANs, 802.3x Flow Control, Spanning Tree for path redundancy, IGMP for multicast applications, and Strict Priority Queuing.

Network Management and Security

The plug-and-play simplicity of the Vertical Horizon VH-2402S2 brings a new level of intelligence to the small to mid-market enterprise. The Vertical Horizon VH-2402S2 can be managed via Enterasys' NetSight™ Atlas, a web interface that uses common HTTP browsers, Telnet, or serial connections. RMON (Groups 1, 2, 3, 9) and SNMP (v1/v2) are accessed via Local Console Management (LCM), to monitor and configure the VH-2402S2 switches, enable and disable ports, and complete firmware downloads, as well as provide statistical and diagnostic information about the entire device or an individual port.

The Vertical Horizon switches also deliver security to the network via MAC Port Locking that provides the ability to deny access to users based on MAC address. Another security feature is one-to-one Port Mirroring to monitor network traffic. With Port Mirroring, a copy of each incoming and outgoing packet is forwarded from one port of a network switch to another port where the packet can be studied for access denial.

- **High-performance connectivity**
 - 24 ports of 10/100 Mbps wire-speed connectivity with two option slots and a dedicated management slot
 - Configurable data queuing for priority traffic, per the IEEE 802.1p standard
 - 8,000 MAC address table for integration into large enterprise networks
- **Stackable design**
 - Stackable design allows up to seven units for a total of 168 10/100 ports
- **Simplified management**
 - Network management and configuration via local console port, web browser or SNMP-based network management, NetSight
 - An entire stack can be managed as a single entity via an optional management agent
 - IGMP snooping identifies and segregates unicast and multicast packet traffic
- **Standards-based VLAN support**
 - Standards-based VLANs per the IEEE 802.1Q standard

SPECIFICATIONS

TECHNICAL SPECIFICATIONS

Switching Bandwidth

16 Gbps

Forwarding Throughput

6.55 Mpps (single unit)/45.85 Mpps (7 high stack)

MAC Address Capacity

8,000

VLAN Capacity

255

Flash Memory

2 MB

DRAM

8 MB

Power System

AC input Power

Optional Redundant Power Supply

PHYSICAL SPECIFICATIONS

Dimensions

6.4 cm (2.53") H x 44 cm (17.37") W x 28.5 cm (11.22") D

Weight

4.8 kg (10.6 lbs)

Rack Mounting

19" rack mountable metal enclosure

1 U high

Safety

UL 1950

CSA C22.2 No. 950

73/23/EEC

EN 60950

IEC 950

Electromagnetic Compatibility

FCC Part 15

CSA C108.8

89/336/EEC

EN 55022

EN 61000-3-2

EN 61000-3-3

EN 50082-1

AS/NZS 3548

VCCI V-3

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature

0° C to 50° C (32° F to 122° F)

Operating Humidity

5% to 95% (non-condensing)

Operating Voltage

100 to 240 VAC

MTBF (predicted)

6 years

ORDERING INFORMATION

Base Units

VH-2402S2	24-port 10/100 TX via RJ45 with two rear option slots and a dedicated management slot (management module sold separately)
VH-2402SM2	One VH-2402S2 Fast Ethernet switch and one VH-SMGMT2 management module

Management and Interconnect Modules

VH-SMGMT2	Management module for the VH-2402S2; includes 5' female/female DB-9 serial console cable (one required per standalone or stack)
VH-STACK2	VH-2402S2 stack interconnect module with 32 cm interconnect cable

Uplink Modules (PIMs)

VHIM100-SISFX	1-port 100Base-FX uplink module (SMF, SC style connector)
VHIM100-S2MFX	2-port 100Base-FX uplink module (MMF, SC style connector)
VHIM1000-SILX	1-port 1000Base-LX uplink module (Long Reach)
VHIM1000-SISX	1-port 1000Base-SX uplink module (MMF, SC style connector)
VHIM1000-SITX	1-port 1000Base-T uplink module
VHIM1000-SIGM	1-port 1000Base GBIC (GPIM) uplink module

Accessories

VH-IRDC	Single DC redundant power supply unit bundle
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WARRANTY

As a customer-centric company, Enterasys is committed to providing the best possible workmanship and design in our product set. In the event that one of our products fails due to a defect in one of these factors, we have developed a comprehensive warranty that protects you and provides a simple way to get your products repaired as soon as possible.

SERVICE AND SUPPORT

Enterasys Networks understands that superior service and support is a critical component for your *Business-Driven Network™*. The Enterasys **SupportNet Portfolio**—a suite of innovative and flexible service and support offerings—completes the Enterasys *Business-Driven Network* solution. SupportNet offers all the post-implementation support services you need—online, onsite or over the phone—to maintain network availability and performance.

ADDITIONAL INFORMATION

For additional information on the Vertical Horizon, please visit www.enterasys.com/products/switching/VH

CONTACT INFORMATION

Contact Enterasys Sales at **978-684-1000** or enterasys.com/corporate/contact/contact-sales.html

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