

VERTICAL HORIZON™ VH-2402-L3 10/100/1000 STANDALONE WORKGROUP SWITCH

Data Sheet



- **High-performance 10/100/1000 Mbps wire-speed switching**
 - 24 ports of 10/100 Mbps connectivity and one option slot for high-speed, dual-port Gigabit uplink modules, including 1000Base-SX/LX and 1000Base-T support
 - Integrated ASIC design provides 9 Gbps internal switching fabric bandwidth and wire speed on all ports
- **Layer 2/3 support**
 - Aggregate throughput in excess of 6.6 Mpps for Layer 3 switching
 - Supports IP routing as well as IGMP, RIP 1 and RIP 2
- **Increased support for Quality of Service**
 - Configurable data queuing for priority traffic, per IEEE 802.1p standard, supports time-sensitive applications such as voice and video streaming
 - Prioritize traffic and perform dynamic multicast filtering
- **Standards-based VLAN support**
 - Standards-based VLANs per the IEEE 802.1Q standard allow the VH-2402-L3 to be seamlessly integrated into multivendor networks
- **Simplified management**
 - Supports TFTP downloads, port mirroring and four groups of RMON
 - Provides broadcast control through broadcast throttling to reduce the number of broadcast within a network
 - Monitoring and configuration tasks are easily performed via local console port, web browser, NetSight™ Element Manager or any SNMP-based management application

Full-Featured Layer 2/3 Switching for the Workgroup

Ideally deployed in small to medium-sized enterprises, the Vertical Horizon VH-2402-L3 offers a complete switching solution without sacrificing any of the services required by a growing network.

Industry-Leading Features and Performance with Layer 2/3 Switching

The Vertical Horizon VH-2402-L3 Fast Ethernet standalone switch provides 24 10/100 Mbps RJ45 ports and one option slot for expansion to accommodate 1000Base-SX/LX or 1000Base-T uplink modules. The VH-2402-L3 allows high-performance, full-featured Layer 2/3 Ethernet switching in small to medium-sized network backbone applications, as well as high-performance direct end-station connectivity. With its Layer 3 functionality, the VH-2402-L3 enables RIP 1 & 2, IP static routes and IGMP, thus providing performance and security features that are typically found only in more costly switching products.

The Vertical Horizon VH-2402-L3 is ideally positioned as a high-performance standalone 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 Layer 2/3 Gigabit Ethernet is the desired backbone technology.

Wire-speed performance on all ports and industry-leading features, including plug-and-play installation, advanced network management and standards-based switching, make the family of Vertical Horizon Fast Ethernet switches industry leaders in their class.



PHYSICAL SPECIFICATIONS

Interface Options

24 ports of 10Base-T/100Base-TX RJ45 with one option slot for dual-port Gigabit uplink modules

Dimensions

4.4 cm (1.73") H x 44.1 cm (17.36") W x 20.7 cm (8.15") D
19 inch rack-mount width

Weight

2 kg (4.40 lbs)

TECHNICAL SPECIFICATIONS

Processor

Toshiba TX3927

Main Memory

32 MB

Buffer Memory

16 MB per unit or 64 K per 10/100 port

FLASH Memory

2 MB

Address Table Size

8k entries

Performance Throughput Capacity

6.6 Mpps, single unit (All calculations based on 64 bytes per packet)

Switching Bandwidth Capacity

9 Gbps

MTBF (predicted)

6 years

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature

0° C to 55° C (32° F to 122° F)

Operating Humidity

5% to 95% RH (non-condensing)

Operating Voltage

100 to 240 VAC

50 to 60 Hz (internal universal power supply)

Power Consumption

40 Watts

AGENCY AND STANDARDS SPECIFICATIONS

Safety

UL 1950 & CSA22.2 No 950

IEC 950 (CB)

TUV (EN60950)

Electromagnetic Compatibility (EMC)

FCC Part 15/IECES-003 (Canada)

VCCI Class A ITE

EN55022/EN50082-1 or EN%o24

C-Tick (AS/NZS3548)

BSMI (CNS 13438)

ORDERING INFORMATION

VH-2402-L3

10/100/100 standalone Ethernet switch with 24 RJ45

10/100TX ports and one option slot for dual-port Gigabit uplinks

VHIM-2GSX-L3

2-port 1000Base-SX uplink, MMF with SC style connectors

VHIM-2GT-L3

2-port 1000Base-T uplink module

VHIM-2GBC-L3

2-port 1000Base-X GBIC uplink module

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