

# VERTICAL HORIZON™ VH-8G-L3 GIGABIT ETHERNET STANDALONE SWITCH

Data Sheet



- **1000 Mbps wire-speed switching with Layer 3 functionality**
  - 6 ports of 1000 Mbps connectivity via fixed SC ports and two GBIC option slots
  - Integrated ASIC-based hardware switching provides 16 Gbps of switching bandwidth and wire speed on all ports
  - 8k MAC address table allows integration into large enterprise networks
  - Full-duplex operation for each port
  - Layer 3 routing for greater performance and control
- **Standards-based support**
  - IEEE 802.1d and 802.3z compliance ensuring compatibility with other standards-based networking products
  - 802.1Q VLAN compliant
  - IEEE 802.1p priority queuing specification, supporting 4 priority queues
  - 802.3x flow control in full-duplex mode, ensuring packet delivery
- **Increased manageability**
  - Supports SNMP, an embedded web http server, Telnet and a local console port through a built-in management agent
  - Supports port trunking on all ports; fully compatible with open mode smart trunking
  - Provides broadcast throttling to reduce the number of broadcasts within a network, saving valuable bandwidth for unicast traffic
  - Supports 4 groups of RMON per port for network troubleshooting and monitoring

Workgroup Switch Ideal for  
Network-Intensive Applications,  
High-Volume File Transfers

*Plug-and-play installation, advanced network management and standards-based switching features make the VH-8G-L3 Gigabit Ethernet Switch an industry leader in its class.*

## Industry-Leading Switching Performance and Features for Enterprise Networks

As the first Gigabit product in the Vertical Horizon family to offer Layer 3 routing functionality, the Vertical Horizon VH-8G-L3 Gigabit Ethernet standalone switch provides 6 fixed-SC ports of wire-speed 1000Base-SX connectivity and 2 GBIC option slots for modular 1000Base-X uplinks. With configurable priority queuing per the IEEE 802.1p standard, the VH-8G-L3 supports time-sensitive applications and performs dynamic multicast filtering to prioritize traffic and improve LAN performance.

The VH-8G-L3 standalone switch offers high-performance, full-featured Layer 2/3 Ethernet switching/routing in small to medium-sized network backbone applications, as well as high-performance direct end-station connectivity. Adding intelligence to the network, IGMP snooping allows support for multicast video and voice data, thus optimizing the flow of multicast traffic to ensure efficient utilization of the switch and network bandwidth. Ideally, the VH-8G-L3 is positioned as a high-performance standalone workgroup switch suitable for supporting network-intensive applications, high-volume transfers and may be successfully applied in wiring closet and desktop edge switching applications. By implementing IP routing as well as support for IGMP, RPI and RIP 2, the VH-8G-L3 provides a complete routing solution without sacrificing any of the services that are required in a growing network.



## TECHNICAL SPECIFICATIONS

**Main Memory**  
32 MB SD RAM

**Buffer Memory**  
512K per unit or 64K per port

**Flash Memory**  
4 MB

**Address Table Size**  
8k entries

**Performance Throughput Capacity**  
12 Mpps (single unit) (all calculations based on 64 bytes per packet)

**Switching Bandwidth Capacity**  
16 Gbps

**MTBF (predicted)**  
5.5 years

## PHYSICAL SPECIFICATIONS

**Interface Options**  
6 ports of 1000Base-SX and 2 GBIC option slots

**Dimensions**  
44.1 cm (17.362") H x 21 cm (8.267") D x 4.3 cm (1.69") W,  
(1U), 19 inch rack-mount width

**Weight**  
2.61 kg (5.75 lbs)

## ENVIRONMENTAL SPECIFICATIONS

**Operating Temperature**  
0° C to 40° C (32° F to 104° F)

**Operating Humidity**  
10% to 85% RH (Non-Condensing)

**Operating Voltage**  
100 to 240 VAC, 50/60 Hz (internal universal power supply)

**Power Consumption**  
45 Watts maximum

## AGENCY AND STANDARDS SPECIFICATIONS

**Safety**  
UL 1950 & CSA22.2 No 950  
IEC 950 (CB)  
TUV (EN60950)

**Electromagnetic Capabilities (EMC)**  
FCC Part 15/IECES-003 (Canada)  
VCCI Class A ITE  
EN55022/EN50082-1 or EN55024  
C-Tick (AS/NZS3548, BSMI (CNS 13438))

## ORDERING INFORMATION

**VH-8G-L3**  
Gigabit Ethernet standalone switch with 6 1000Base-SX,  
SC-style ports, 2 option slots for GBIC uplinks

**GPIM-01**  
1000Base-SX Gigabit Port Interface Module

**GPIM-08**  
1000Base-LX Longhaul Port Interface Module

**GPIM-09**  
1000Base-LX Gigabit Port Interface Module

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