Matrix[™] V2 Workgroup Switch

- Performance, security and value for the enterprise
- Quality of Service for converged applications
- Stackable-scales up to 8 units and 192 10/100 ports

Comprehensive switching features

- 8,000 MAC addresses
- IEEE 802.1p (4 priority queues), IEEE 802.1Q tagging VLAN (255 supported), IEEE 802.1w Rapid Spanning Tree, IEEE 802.3x Flow Control, IEEE 802.1D Spanning Tree protocol, IEEE 802.3ad Link Aggregation
- IGMP (v1/v2) Snooping
- Port Mirroring
- Quality of Service capabilities
 - L2/L3/L4 traffic classification
 - Weighted Round Robin
 - Ingress/Egress Rate Limiting
- Flexible management
 options
 - Command Line Interface (CLI)
 - Console interface
 - SNMP v1/v2
 - RMON (group 1,2,3 and 9)
 - Web-based management
 - BOOTP and DHCP client
 - Dual firmware images
 - Configuration file
 - upload/download by TFTP — Multiple configuration files
- Integrated security features
 - 802.1x port security
 - RADIUS
 - SSL
 - Access Control Lists (ACLs)

Next-Generation Switching Architecture

Ideally suited for Small-to-Medium Enterprise (SME) networks, the Matrix V2 delivers the perfect combination of features, performance and functionality-all at an affordable price. With inherent stackable capabilities plus support for multiple uplink technologies, the Matrix V2 is one of the most flexible and scalable switches on the market. Key next-generation features include Layer 2 switching services, Layer 2/3/4 classification and rate limiting, 802.1w (Rapid Reconvergence), 802.3ad (Link Aggregation) and optional power redundancy. This robust feature set will support the deployment of VoIP and realtime video and data-intensive applications such as CRM, SCM and ERP. You simply won't find this kind of high-end, highavailability performance in any other value-priced switch.

Modularity and Scalability

Offered in two models (V2H124-24 and V2H124-24T), the Matrix V2 supports 24 ports of 10/100Base-TX with two expansion slots for either uplink connections and/or stacking modules. The expansion slots are technology independent and support 100Base-FX multimode and single mode fiber, 10/100/1000Base-TX with RJ45, and a combination Gigabit Ethernet module that supports either 10/100/1000Base-TX or 1000Base-SX/LX via Mini GBICs. The stacking module, V2STACK, provides support for up to eight Matrix switches for a total of 192 ports of 10/100Base-TX.

Stacking is provided via "daisy chain" or "pile" stacking and supports 2 Gbps of interconnect bandwidth capacity. The V2STACK also ships with two interconnect cables, 30 cm and 60 cm. The wire-speed performance of the Matrix V2, along with support for Ethernet and Gigabit Ethernet connectivity, makes it a perfect solution for desktop, server farm aggregation and shared access environments within the SME market.

Easy to Deploy, Advanced Features

The plug-and-play simplicity and advanced features of the Matrix V2 bring a high level of intelligence to the network edge. The Matrix V2 can be managed via an industry-standard command line interface, embedded web server, SNMP, Telnet, or serial connections. The Matrix V2's advanced Quality of Service (QoS) capabilities make the deployment of converged applications a reality for SME networks through the support of features like IEEE 802.1p, IEEE 802.10, TOS/DSCP rewrite and Weighted Round Robin that help enable the secure, reliable transmission of integrated voice/video/data. Equally important to converged networks is traffic classification, which the Matrix V2 performs at Layer 2/3/4. The Matrix V2 supports both ingress and egress rate limiting. For Fast Ethernet ports, the rate limit can be set from 1 MB to 100 MB in 1 MB intervals: for Gigabit Ethernet ports, the rate limit can be set from 1 MB to 1000 MB in 8 MB intervals.





Extensive Security

Security is vital to all networks, especially within the SME market. With the Matrix V2, the network is protected at the first point of entry (user access) via IEEE 802.1X and MAC Port Locking. Additional network and host security features include support for Access Control Lists, as well as SSH, SSL and RADIUS.

The Matrix V2 will be an important component to SME customers as they look to leverage new technology to stay competitive, increase productivity and secure intellectual property. The Matrix V2 delivers all of this at a surprisingly affordable price.

Specifications

Technical Specifications	Agency and Standards Specifications
Switching Bandwidth 8.8 Gbps	Safety UL 60950
Forwarding Throughput 6.6 Mpps	CSA 60950 EN 60950 EN 60825
MAC Address Capacity 8,000	IEC 60950 Electromagnetic Compatibility
VLAN Capacity 255	47 CFR Parts 2 and 15 CSA C108.8 EN 55022
Flash Memory 8 MB	EN 55024 EN 61000-3-2
DRAM 32 MB	EN 61000-3-3 AS/NZS CISPR22 VCCI V-3
Power System AC Input Power (auto-sensing): 24 W Optional Redundant Power Supply Heat Dissipation 82 BTU/HR	MIB/Trap Support RFC1213 MIB-2 RFC2863 Interface MIB RFC2665 Ether-Like MIB RFC1493 Bridge MIB RFC2674 Extended Bridge MIB (P-bridge, Q-bridge)
Physical Specifications	RFC2819 RMON MIB (groups 1,2,3,9 only) — RFC2737 Entity MIB RFC2618 RADIUS MIB RFC1215 Traps RFC1493 Traps
Dimensions 44 cm (17.37") x 32.4 cm (12.76") x 4.3 cm (1.7")	
Weight	in Girbb haps

Weight 4.22 kg (9.3 lbs)

Rack Mounting 19" rack mountable metal enclosure 1 U high

Power Requirements Nominal Input Voltages: 100V - 240V Input Frequency: 47 Hz to 63 Hz

Specifications

Environmental Specifications

Temperature IEC 68-2-14 Standard Operating: 0° C to 50° C (32° F to 122° F) Non-Operating: -40° C to 70° C (40° F to 158° F)

Humidity 10% to 90% (Non-condensing) Vibration IEC 68-2-36, IEC 68-2-6

Shock IEC 68-2-29

Drop IEC 68-2-32

MTBF (predicted) 52,984 hours

Ordering Information

V2H124-24 Matrix V2 with 24 10/100Base-TX ports via RJ45 and 2 expansion slots

V2H124-24T Matrix V2 with 24 10/100Base-TX ports via RJ45 and 2 1000Base-T ports via RJ45

V2G121-1 Matrix V2 uplink module with 1 1000Base-T port via RJ45

V2G112-2 Matrix V2 uplink module with 1 10/100/1000Base-TX combo port via RJ45 or Mini-GBIC

V2H151-1M Matrix V2 uplink module with 1 100Base-FX port via multimode Fiber SC

V2H151-1S Matrix V2 uplink module with 1 100Base-FX port via single mode Fiber SC

V2STACK Matrix V2 stacking module with required stacking cables

VSER-RPU-SYS Matrix V2 redundant non-PoE power supply (for up to four switches) with four DC cables

MGBIC Modules MGBIC-LC01

Mini-GBIC with 1000Base-SX via LC connector

MGBIC-08 Mini-GBIC with 1000Base-LX/LH (70Km Long Haul) SMF via LC connector

MGBIC-LC09 Mini-GBIC with 1000Base-LX via LC connector

MGBIC-MT01 Mini-GBIC with 1000Base-SX via MTRJ connector

Warranty

As a customer-centric company, Enterasys is committed to providing the best possible workmanship and design in our product set. Enterasys offers a limited lifetime warranty on the Matrix V-Series hardware. All hardware is warranted to the original user for the life of the product. In the event of failure, the product will be repaired or replaced at Enterasys' discretion subject to our standard terms and conditions of warranty repair. Please refer to the Enterasys website for full warranty details.

Service and Support

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

Additional Information

For additional information on the Matrix V-Series and other Matrix switching products, please visit the web at enterasys.com/products/switching/

Contact Information

Contact Enterasys Sales at **877-801-7082** or **enterasys.com/corporate/contact/contact-sales.html**

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Lit. #9013296-3 4/04

