

ES-3024 Managed Layer 2 Stackable Switch

The Dimension ES-3024 is a managed layer 2 switch for workgroups or WAN edge applications. It is equipped with twenty-four 10/100Mbps ports and two expansion slots that accommodate optional 10/100/1000Base-T, 1000Base-SX or GBIC modules. With the recent growth of Gigabit Ethernet in Metropolitan Area Networks (MAN), expansion modules provide unparalleled flexibility for supporting a wide variety of uplink infrastructures while maintaining a competitive price to performance ratio. The IEEE 802 standard-based firmware provides a rich set of features and ensures interoperability with equipment from other vendors. Additionally, the firmware includes advanced features such as IGMP snooping, broadcast storm control, and MAC address filtering, to enhance security and bandwidth utilization. With its built-in web-based management, the Dimension ES-3024 offers an easy-to-use, platform-independent management and configuration facility. The Dimension ES-3024 supports standard Simple Network Management Protocol (SNMP) and can be managed via any standard-based management software. For text-based management, the Dimension ES-3024 can also be accessed via Telnet and the console port.



Benefits: Port Trunking Provides Higher Availability; The Dimension ES-3024 supports IEEE 802.3ad with load distribution control and fail over recovery. With the exception of expansion slots, up to 8 ports can be aggregated for bandwidth up to 1600Mbps. No matter what modules are used for expansion slots, all traffic is aggregated based on MAC addresses, balancing the traffic load.

Clustering Simplifies Network Configuration and Management; The clustering design enables system administrators to configure and manage up to 8 units of the Dimension ES-3024 through a single IP address. This enables service providers to start with a minimal initial investment and add more equipment as customers increase. Network expansion can be accomplished without increasing management efforts.

VLAN Offers Both Security and Performance; The VLAN feature in the Dimension ES-3024 offers the benefits of both security and performance. VLAN is used to isolate traffic between different users and thus provides better security. Limiting the broadcast traffic to within the same VLAN broadcast domain also enhances performance.

Rate Adaptation Allows Service Differentiation; In order to fulfill the needs of different customers, service providers need a network infrastructure that combines guaranteed performance and flexibility in service provisioning. Rate adaptation on subscriber ports allows increments of 1Kbps, allowing service providers to offer tiered service.

Port Mirroring Achieves a Better Network Monitoring; Port mirroring copies traffic from a specific port to a target port. This mechanism helps track network errors or abnormal packet transmission without interrupting the flow of data.

Multicasting and Broadcast Storm Control Optimize Bandwidth Utilization; The IGMP snooping feature forwards traffic only to subscribers that request the multicast traffic. This prevents unnecessary forwarding of multicast traffic to all subscribers, therefore optimizing bandwidth utilization for bandwidth-consuming applications such as broadcast video. The broadcast storm control gives system administrators the choice to either forward or discard broadcast packets created by malicious or run-away applications. This prevents unnecessary waste of bandwidth to enhance bandwidth utilization.

Access Control Enhances Network Security; The Dimension ES-3024 supports not only 802.1x port-based access control for subscriber authentication, but also allows system administrators to define a limited number of MAC addresses that can access the network from a particular port. This feature, which denies unauthorized devices from communicating through the switch, highly enhances network security. The Dimension ES-3024 also supports the ability to limit the number of users (MAC addresses) that can simultaneously access the network on a per-port basis, allowing service providers to offer flexible billing plans.

Features:

Standards

- IEEE 802.3 10BASE-T Ethernet UTP
- IEEE 802.3u 100Base-TX UTP
- ANSI/IEEE 802.3 Auto-negotiate
- IEEE 802.3X Flow Control 802.1p Priority Queues, 802.1Q VLAN, 802.1d Spanning Tree

Uplink Interface

- Two slots, EM3024-SX-SC 1x 1000Base-SX, Multi-mode, SC connector, LED: Link& Active
- EM 3024-FX-SC: 1x 100FX, Multi-mode, SC Connector, LED: Link/TX, RX, FDX/COL, FDX, HDX, Col HDX
- EM3024-GTP: 1x 10/100/1000Base-TX RJ45, LED: Link/TX, Speed, FDX/COL
- EM3024-GBIC: GBIC 3.3V frame, LED: Link, Active

Stacking Interface

- 1 stacking slot
- EM3024S: 2x 1000Base-T ports

Subscriber Interface

- RJ45
- 24 10/100 Base-TX interfaces
- Auto-negotiation, & MDIX
- IEEE 802.3/3u
- Backpressure flow control HDX
- Flow control for FDX IEEE 802.3x

Bridging:

- 16K MAC address
- Static MAC address filtering/forwarding
- Limited max. number of MAC addresses per port

Switching

- Fabric: 12.8Gbps, non-blocking
- Frame size: 1522bytes
- Forwarding frame: 802.3, 802.1q, Ethernet II, PPPoE
- Prevent the forwarding of corrupt packets
- Performance Monitoring, Line Rate Configuration, vDSL line rate setting
- Rate Adaptation

1. Select Product & Options from Row(s)		2. Pick this and	3. A or B		4. Or, Exclusive Plus Plans
Pick Rows	ES-3024 L2 Managed Switch	Purchase	A. Year PIA Maintenance	B. Monthly Maintenance	Plus Plan Monthly Rental & Maintenance
H.	Base Pricing - ES-3024 Unit	\$849.00	\$170.00	\$16.00	\$96/Mo.
C.	Basic Configuration of ES-3024 & onsite setup of first single (one) unit w/ compatible network.	+/- 4hrs. @120/hr.	\$78.00	\$10.00	\$24/Mo
C.	Basic Configuration of ES-3024 & onsite setup of each additional unit, with initial setup above.	\$360.00	\$78.00	\$10.00	\$24/Mo
C.	Additional: labor and parts for device LAN cabling is \$90/hr., plus Materials as needed.	\$90/hr.			