

ES4524D/ES4548D

L2 Gigabit Ethernet Standalone Switch



Product Overview

The Edge-Core ES4524D, ES4548D are Gigabit Ethernet Layer 2/4 Standalone switches featuring 24 or 48 ports; 24 or 44 RJ-45 10/100/1000 ports and 4 combo Gigabit Ethernet RJ-45/SFP ports. They are ideal for high performance server aggregations, such as enterprise data centers, to connect high-end or network attached file servers over copper ports. High speed workgroups backbone upgrades, and Gigabit to the desktop for power users. The whole stack can be managed as a single entity with a single IP address.

Key Features and Benefits

Performance and Scalability

With 48Gbps, 96Gbps switching capacity, the ES4524D/ES4548D delivers wire-speed switching performance on all gigabit ports, allowing users to take full advantage of existing high-performance.

There are four Gigabit Ethernet combo ports for uplink flexibility, allowing copper or fiber uplinks.

Continuous Availability

IEEE 802.1w Rapid Spanning Tree Protocol provides a loop-free network and redundant links to the core network with rapid convergence.

IEEE 802.1s Multiple Spanning Tree Protocol runs STP per VLAN base, providing Layer 2 load sharing on redundant links.

IEEE 802.3ad (LACP) increases bandwidth by automatically aggregating several physical links together as a logical trunk and providing load balancing and fault tolerance for uplink connections.

IGMP snooping prevents flooding of IP multicast traffic and limits bandwidth intensive video traffic to only the subscribers.

Optional Redundant Power Supply provides uninterrupted power.

Comprehensive QoS

8 egress queues per port enable differentiated management of up to 8 traffic types

Traffic is prioritized according to 802.1p, DSCP, IP precedence and TCP/UDP port number, giving optimal performance to real-time applications such as voice and video.

Asymmetric bidirectional rate-limiting, per port or per traffic class, preserves network bandwidth and allows maximum control of network resources.

IEEE 802.1Q-in-Q allows the service provider to provide certain services, such as Internet access on specific VLANs for specific customers, and provides other types of services for their other customers on other VLANs.

Enhanced Security

Port Security ensures access to a switch port based on MAC address.

IEEE 802.1X port-based or MAC-based (*) access control ensures all users are authorized before being granted access to the network. User authentication is carried out using any standard-based RADIUS server.

Access Control Lists (ACLs) can be used to restrict access to sensitive network resources by denying packets based on source and destination MAC addresses, IP addresses, TCP/UDP ports.

SSL, Web Management Encryption, RADIUS and TACACS+ protect data communication and ensure data privacy.

Private VLAN isolates edge ports to ensure user privacy.

Simple Management

Industry standard Command Line Interface (CLI) via console port or Telnet provides a common user interface and command set for users to manipulate the switch.

Embedded user friendly web interface helps users quickly and simply configure switches.

Four groups of RMON are supported.

Backup and restore firmware and configuration files via TFTP.

IPv6 Features

IPv6 is the exponentially greater number of IP addresses it can support compared to IPv4. The internals of the IPv6 protocol have been designed with scalability and extensibility in mind. This will allow many different kinds of devices besides PCs, like cell phones and home appliances, to more easily join the Internet in future.

