

ES4624-SFP/ES4626-SFP L3 Gigabit Ethernet Switch



Product Overview

The Edge-Core ES4624-SFP and ES4626-SFP are Gigabit Ethernet Layer 3 Standalone switches with 24 SFP Gigabit Ethernet ports plus 8 combo Gigabit Ethernet RJ-45/SFP ports. In addition to 24 Gigabit ports, ES4626-SFP also includes dual 10-Gigabit uplink ports.

The ES4624-SFP/ ES4626-SFP is ideal for use in the distribution layer of three-tier networks provides long distance fiber connections to aggregate access layer switches that are dispersed in different locations. It also an excellent choice as a core switch for small enterprises.

Ethernet Switch

Key Features and Benefits

Performance and Scalability

With 48Gbps/88Gbps switching capacity, the ES4624-SFP/ES4626-SFP delivers wire-speed and Non-blocking performance on all ports for Layer 2 switching and Layer 3 IP routing and high performance IPv4 and IPv6* IP routing.

The SFP-based Gigabit ports support various optional Gigabit Ethernet mini GBIC transceivers, available by Edge-Core, for different distance fiber connections.

The 10 Gigabit Ethernet connectivity of ES4626-SFP is accomplished via 10 Gigabit XFP transceiver which is hot-pluggable, supports distances up to 300 meters over multimode fiber and 10 to 40km over single-mode fiber.

The ES4624-SFP/ES4626-SFP supports both AC and DC power supplies for different environment applications.

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 Link Aggregation Control Protocol (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.

L3 Features

The ES4624-SFP/ES4626-SFP delivers high-performance, hardware based IP routing.

RIP v1/v2 and OSPF v2 provide dynamic routing by exchanging routing information with other Layer 3 switches and routers.

DVMRP, PIM-DM and PIM-SM Multicast Routing Protocols send IP multicast traffic from one subnet to another.

VRRP prevents your system from failing by dynamically backing up multiple L3 switches for routing.

Comprehensive QoS

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

Traffic is prioritized according to IEEE802.1p, DSCP, IP precedence and TCP/UDP port number, giving optimal performance to real-time applications such as voice and video.

Bi-directional rate-limiting, per port or traffic class, preserves network bandwidth and allows full control of network resources.

Enhanced Security

IEEE 802.1X port-based access control and MAC-based access control ensure all users are authorized before being granted access to the network.

Access Control Lists (ACLs) can be used to restrict access to sensitive network resources by denying packets based on L2/L3/L4 headers information.

Secure Shell (SSH) encrypts network management information via Telnet providing secure network management.

RADIUS Authentication enables centralized control of the switch and restricts unauthorized users from altering the configuration of the switch.

Simple Management

Industry standard Command Line Interface (CLI) via console port or Telnet can be used for switch management.

Embedded user friendly web interface helps users quickly and simply configure switches. Support four groups of RMON.

Backup and restore Firmware and configuration files via TFTP or FTP.

IPv6 Support *

The ES4626-SFP/ES4626-SFP supports IPv6 routing in hardware for maximum performance. As more network devices growing and the need for larger addressing and higher security become critical, the ES4624-SFP/ES4626-SFP will be a right product to meet the requirement.

ES4624-SFP/ES4626-SFP Product Specifications

Features

Physical Ports

24 1000BaseX-SFP ports
8 Combo GE (RJ-45/SFP SX/LX/LHX/ZX) ports
2 10Gigabit XFP ports for 10G uplink (ES4626-SFP)
1 USB console port

Performance

Switching Capacity: 48Gbps/88Gbps
Forwarding Rate: 35.7Mpps/65.5Mpps
MAC Address Table Size: 16K
Packet Buffer Size: 1MB

L2 Features

Auto-negotiation for port speed and duplex mode
Flow Control: IEEE 802.3x & Back-Pressure
Store & Forward switching methods
Spanning Tree Protocol:
■ IEEE 802.1D Spanning Tree Protocol (STP)
■ IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
■ IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
VLANs:
■ Supports 4K IEEE 802.1Q (QoS VLANs), GVRP(255)
■ Private VLAN, port-based VLANs Tagging
Link Aggregation:
■ Static Trunk, IEEE 802.3ad Link Aggregation Control Protocol
■ Trunk groups: 8 Groups, Trunk links: 2-8 per Trunk link
IGMP Snooping:
■ IGMP v1 and v2 snooping
■ IGMP Querier
Supports jumbo frame up to 9KB

L3 Features

8 K IP Address entries
2K static routes
ARP
Multi-netting, Super-netting (CIDR)
RIPv1, RIPv2
OSPF v2
BGP*
DVMRP, PIM-DM, PIM-SM
VRRP
DHCP/BOOTP relay, DHCP server
IPv6* hardware IP routing, future firmware upgrade
Policy-based routing (PBR)

QoS Features

Priority Queues: 8 hardware queues per port
Traffic classification based on IEEE 802.1p CoS, IP Precedence, DSCP, TCP/UDP port number, Access Control List
Supports WRR and Strict scheduling
Supports SWRR
Supports Diffserv
Bandwidth Control:
■ Ingress rate limiting,
■ Egress rate limiting
Broadcast Storm Control prevents faulty end stations from degrading overall system performance.

Security

Supports IEEE 802.1X port-based access control and MAC access control
RADIUS authentication
Access Control List
SSH (V1.5)

Management

Switch Management:
■ CLI via console port or Telnet
■ WEB management
■ SNMP v1, v2c, v3
Firmware & Configuration:
■ Firmware upgrade via TFTP/FTP server
■ Configuration file upload/download via TFTP/FTP server
Supports RMON (groups 1, 2, 3 and 9)
Supports BOOTP, DHCP for IP address assignment
Supports SNMP
Event/Error Log/Syslog

Mechanical

Dimensions (H x W x D): 4.4 x 43.6 x 42.0 cm (1RU19"rack-mount)
LED Indicators: Link, Act, Run, Power

Safety

CSA/NRTL (UL60950, CSA 22.2.No 60950-00)
TUV/GS (EN60950)
CB

Electromagnetic Compatibility

CE Mark
FCC Class A
VCCI Class A

Environmental Specifications

Temperature:
■ IEC 68-2-14
■ 0°C to 40°C (Standard Operating)
■ -40°C to 70°C (Non-Operating)
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

Warranty

Limited lifetime warranty

Ordering Information

Optional Accessories

ET5302A-LR

ET4201-SX
ET4201-LX
ET4201-LHX
ET4201-ZX

Product Description

10G XFP Optical Transceiver (10KM)

Small Form Factor Pluggable (Distance: 500m; Wavelength: 850nm)
Small Form Factor Pluggable (Distance: 10km; Wavelength: 1310nm)
Small Form Factor Pluggable (Distance: 40km; Wavelength: 1310nm)
Small Form Factor Pluggable (Distance: 80km; Wavelength: 1550nm)



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