

ES4612 L3 Intelligent Gigabit Ethernet Standalone Switch



The Edge-Core ES4612 is a 12 port 10/100/1000 Ethernet Routing standalone Switch. The switch configuration is 8 1000Base-X SFP port and 4 gigabit combo ports comprised of an RJ-45 and an SFP.

Product Overview

The Edge-Core ES4612 is a 12 port 10/100/1000 Ethernet Routing standalone Switch. The switch configuration is 8 1000Base-X SFP port and 4 gigabit combo ports comprised of an RJ-45 and an SFP.

The ES4612 supports IP routing. It is a routing switch that combines the speed and low cost of a Layer 2 switch with the ability to route at a Layer 3 level and provides comprehensive network management functions-- Spanning Tree protocol for standard bridging, GVRP for VLAN configuration, SNMP, RMON and Web management are all standard features.

Key Benefits

Great Fault-Tolerance

Spanning tree is a link management protocol that provides path redundancy while preventing undesirable loops in the network. Edge-Core ES4612 delivers not only the IEEE802.1D protocol (Spanning Tree), but also Edge-Core proprietary Fast Mode Spanning Tree, IEEE802.1s* (Multiple Spanning Tree) and IEEE802.1w* (Rapid Spanning Tree). Besides Spanning Tree for Fault-Tolerance, ES4612 also provides a redundant power supply inlet in the rear panel for power-fault-tolerance to ensure a reliable system.

Advanced Network Security Mechanism

As networks grow and branch out to remote locations, network security increases in importance and administration complexity. Customers need to protect networks and network services from unauthorized access by remote users. The Edge-Core ES4612 provides multiple security algorithms such as Port Security, SSL, Web management Encryption, RADIUS and TACACS+ to protect data communication and to ensure data privacy.

Full Range of Interface Options using SFP

Instead of providing expansion modules, the ES4612 offers SFP for covering great cabling and distance requests based on customer requirements. It is a great advantage for vendors on their module inventory management.

Eliminates Network Bottlenecks

To secure bandwidth for bandwidth-hungry traffic, the Edge-Core ES4612 not only offers basic IEEE 802.3ad Link Aggregation, but also Cisco's Ether Channel for static trunks. Users have the option to choose what best suits their needs. This is a user-friendly design to meet a customer's preference.

Great Performance

The Edge-Core ES4612 offers high performance at a very attractive price. It boosts L3 switching performance and eliminates network bottlenecks with wire-speed switching capability. In addition to wire-speed switching, it also offers rich software feature sets to manage and secure network communication.

Specification

Physical Ports

- 8 1000Base-X SFP ports
- 4 Gigabit combo port-RJ45/ SFP
- 1 RS232 port
- 1 Redundant Power (DC) connector
- 1 RJ-45 management port

L2 Features

- Provides 8 1000Base-X SFP and 4 gigabit combo ports (RJ45/SFP)
- Provides Redundant Power Supply (RPS)
- 10/100/1000BASE-TX ports support auto-sensing, auto-negotiation
- Supports Jumbo frame up to 9KB
- Provides wire speed L2/3 switch
- Supports up to 16K MAC address entries
- Flow Control supported:
 - Provides IEEE802.1x for full duplex mode
 - back-pressure flow control half duplex mode
- Provides store-and-forward forwarding scheme
- Provides HOL (Head of Line) blocking prevention
- Provides Broadcast storm protection
- VLANs support, GVRP, IEEE802.1Q, IEEE802.1v
- Supports IGMP snooping
- Provides 8-level priority in switching
- Provides Spanning Tree (IEEE 802.1D)
- Fast forwarding mode supported (802.1s*, 802.1w)
- Provides Link Aggregation (802.3ad with LACP)

L3 Features

- Provides IPv4 routing at wire speed
- Provides up to 4K IP address entries
- Provides Static IP routes (128 entries)
- Provides Multi-netting
- Provides Supernetting (CIDR)
- Provides RIP I (RFC1058) and RIP II (RFC2453)
- Provides OSPF (RFC2328) routing
- Provides IP Multicast Routing: IGMP, DVMRP, PIM-DM
- IP Redundancy - VRRP (RFC 2338) supported
- Supports Hot Standby Routing Protocol (HRSP)
- ARP (RFC 826) supported
- Provides DHCP/BOOTP (RFC 951) relay
- Provides DHCP server (RFC 2131)/client
- DNS support (proxy) server

Quality of Service

- Provides DiffServ
- Bandwidth Management: Ingress and Egress

Management

- Provides 1 Male DB9 RS-232C console interface configured as DTE
- Supports Cisco-like Command Line Interface (CLI) using VT-100 style terminal, 4 sessions
- Supports Telnet management
- Supports Embedded Web-based Management
- Supports software upgrade/download via XMODEM or TFTP
- Supports configuration download/upload via TFTP
- Supports Port Mirroring
- Supports BOOTP/DHCP client for IP address assignment
- Supports ARP Proxy
- Supports Remote Ping
- Supports dual copies of code
- Supports multiple copies of configuration
- Supports System/Crash/Error log
- Supports SNMP (RFC 2030)
- Supports RFC 2819 RMON group (1,2,3 & 9)
- Supports MIBsSupports SNMPv1/v2c/v3*

Security

- User/Password protected system management terminal
- L2/L3/L4 access control list
- RADIUS
- TACACS+
- Secure Shell (SSH/Secure Telnet)
- HTTPS/SSL
- IEEE 802.1x

Mechanical

- Dimensions: (H x W x D): 44cm x 44cm x 23cm

Performance

- Switch Fabric: 24Gbps
- MAC addresses: 16K

Power Requirements

- Nominal Input Voltages: 110V & 230V
- Input Voltage Range: 90-240V RMS
- Input Frequency: 50/60Hz
- Maximum i/p current: 1.2A@110V, 0.6A@230V

Safety

- CSA/NRTL (UL1950, CSA 22.2 950)
- TUV/GS (EN60950)
- CB

Electromagnetic Compatibility

- CE Mark
- FCC Class A
- VCCI Class A
- CISPR Class A

Environmental

- Temperature:
 - IEC 68-2-14
 - 0°C to 50°C (Standard Operating)
 - -40°C to 70°C (Non-operating)
- Humidity: 5% to 95% (Non-condensing)
- Vibration: IEC 68-2-36, IEC 68-2-6
- Shock: IEC 68-2-29
- Drop: IEC 68-2-32

IEEE Standards

- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-TX and 100BASE-FX
- IEEE 802.3z 1000BASE-SX
- IEEE 802.3x flow control support
- IEEE 802.1D (Bridging)
- IEEE 802.1Q (Virtual LAN)
- IEEE 802.3ad (LACP)
- IEEE 802.1s
- IEEE 802.1w

Ordering Information

ET4201-SX	Small Form Factor Pluggable (Distance:500m ; Wavelength:850nm)
ET4201-LX	Small Form Factor Pluggable (Distance:10km ; Wavelength:1310nm)
ET4201-LHX	Small Form Factor Pluggable (Distance:40km ; Wavelength:1310nm)
ET4201-ZX	Small Form Factor Pluggable (Distance:80km ; Wavelength:1550nm)

Powered by



Accton

Making Partnership Work