

ES4524C/ES4548C Standalone Switch

L2 Gigabit Ethernet



The Edge-Core ES4524C/ES4548C is a 24/48 port 10/100/1000 Layer 2 Gigabit Ethernet standalone switch. The switch configuration is 20/44 10/100/1000 Base-T port and 4 gigabit combo ports which comprised of a RJ-45 and a SFP.

Product Overview

The Edge-Core ES4524C/ES4548C is a 24/48 port 10/100/1000 Layer 2 Gigabit Ethernet standalone switch. The switch configuration is 20 10/100/1000 Base-T port and 4 gigabit combo ports which comprised of a RJ-45 and a SFP.

Comprehensive network management functions are provided, such as Spanning Tree protocol for standard bridging, GVRP for VLAN configuration, SNMP, RMON and Web management which are also 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. ES4524C/ES4548C delivers not only 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, the Edge-Core ES4524C/ES4548C 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 ES4524C/ES4548C provides multiple security algorithms such as Port Security, SSL, Web Management Encryption, RADIUS and TACACS+ to protect data communication to ensure data privacy.

Full Range of Interface Choice for SFP

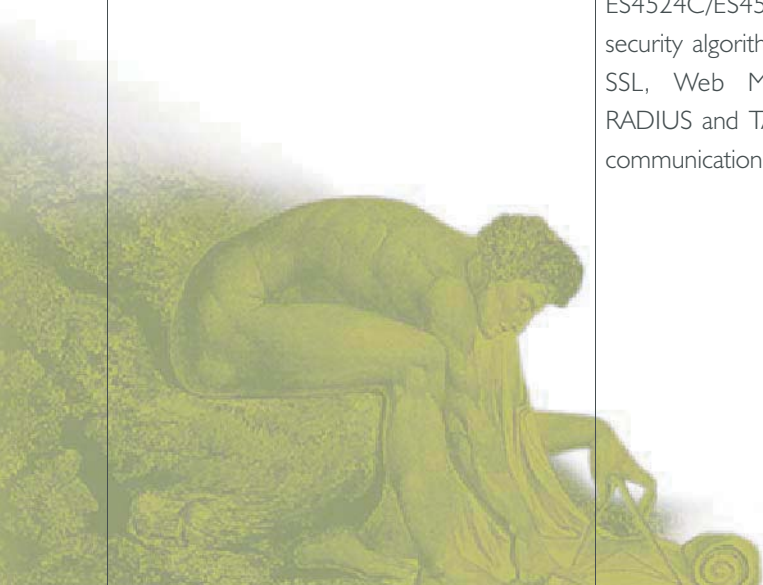
Instead of providing lots of expansion modules options, the Edge-Core ES4524C/ES4548C offers SFP for covering great cabling and distance requests based on customers' need. One of great advantages for vendors is that it saves module inventory management.

Eliminate Network's Bottleneck

To secure the bandwidth for highly bandwidth demanded traffic, the Edge-Core ES4524C/ES4548C offers not only basic IEEE 802.3ad compliant Link Aggregation, but also Cisco's EtherChannel for static trunk. Users can choose the way they prefer or used to configure the system. This is a user-friendly design to meet customer's preference.

Great Performance

The Edge-Core ES4524C/ES4548C offers high performance at a very attractive price. It boosts complete L2/L4 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 secures the whole network communication.



Specification

Physical Ports

- 20/44 Giga RJ-45 ports
- 4 Giga combo port (RJ-45/ SFP)
- 1 RS232 port
- 1 Redundant Power (DC) connector

L2 Features

- 10/100/1000BASE-TX ports support auto-sensing, auto-negotiation.
- Supports Jumbo frame up to 9KB
- Supports up to 16K MAC address entries
- Supports 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
- Supports IGMP snooping v1/v2
- Supports IGMP querier
- Link Aggregation
 - Complies to IEEE 802.3ad (LACP)
 - Cisco Ether-Channel compatible (Static Trunk)
 - Up to 6 trunks
 - 2 ~ 8 ports per trunk
 - Support Load Balance for both Unicast and Multicast traffic
- Spanning Tree
 - Supports IEEE 802.1D Spanning Tree Protocol
 - Supports IEEE 802.1s Multiple Spanning Tree
 - Supports IEEE 802.1w Rapid Spanning Tree
 - Supports Accton proprietary per-port based Fast Forwarding mode
- VLAN functions
 - IEEE 802.3ac frame extension for VLAN tagging
 - IEEE 802.1Q tagging VLAN
 - Up to 255 VLAN entries
 - Supports Port-based VLAN
 - Private VLAN
 - GVRP protocol for dynamic VLAN management

Security

- User/Password protected system management terminal
- Static port security (MAC-based)
- L2/L3/L4 access control list
- RADIUS
- TACACS+
- SSH/Secure Telnet (v1.5/2.0) port based security
- HTTPS/SSL
- IEEE 802.1x

Quality of Service

- 802.1p based CoS
- 8 priority queues per port
- WRR for priority queue
- Strict Scheduling priority queue
- IP TOS/Precedence based CoS
- DSCP based CoS
- TCP/UDP port-based CoS
- Bandwidth Management: both Ingress and Egress.
- DiffServ*

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
- Support Port Mirroring
- Supports BOOTP/DHCP client for IP address assignment
- Supports Remote Ping
- Supports dual copies of Firmware image
- Supports multiple copies of configuration
- Supports System/Crash/Error log
- Supports SNMP (RFC 2030)
- Supports SNMPv1/v2c/v3*
- Supports RFC 2819 RMON group (1,2,3 & 9)
- Supports MIBs

Mechanical

- Dimension (D x W x H): 35.4cm x 44cm x 4.4cm

Performance

- Switch Fabric: 24Gbps/ 48 Gbps
- MAC addresses: 16K

Electrical 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 [1]
- IEEE 802.3u 100BASE-TX and 100BASE-FX [2]
- IEEE 802.3z[3] 1000BASE-SX
- IEEE 802.3x flow control support
- IEEE 802.1D (Bridging), 1993
- IEEE 802.1Q (Virtual LAN) 1998
- IEEE 802.3ad (LACP)
- IEEE 802.1s
- IEEE 802.1w

Ordering Information

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

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