

ECS3510-26P L2 Fast Ethernet Switch with PoE



Product Overview

The Edgecore ECS3510-26P is a high-performance Fast Ethernet Layer 2/4 switch featuring 26 ports; 24 10/100Mbps PoE ports and 2 combo Gigabit Ethernet RJ-45/SFP (Small Form Factor Pluggable) ports. It is ideal for desktop Fast Ethernet connectivity and wiring closet installations. This switch is packed with features and is a cost-effective solution that brings continuous availability, enhanced security and advanced QoS to the network edge, while maintaining simplicity of management.

Key Features and Benefits

Performance and Scalability

It's a great entry level managed with 8.8 Gbps switching capacity delivers wire-speed switching performance to take full advantage of existing high-performance on PCs and laptops by significantly improving the responsiveness of applications and file transfer times .

The device also has two Gigabit Ethernet combo ports for uplink flexibility, allowing copper or fiber uplinks port for high speed uplinks to servers or backbones.

Continuous Availability

IEEE 802.1w Rapid Spanning Tree Protocol provides a loop-free network and redundant links to the core network with rapid convergence, to ensure faster recovery from failed links, enhancing overall network stability and reliability.

IEEE 802.1s Multiple Spanning Tree Protocol runs STP per VLAN base, providing Layer 2 load sharing on redundant links up to 8 instances.

Multicast VLAN Registration (MVR) is designed for applications such as Media-on-Demand is using multicast traffic across an Ethernet network.

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

The voice VLAN feature enables access ports to carry IP voice traffic from an IP phone.

The IEEE 802.1Q-in-Q VLAN Tag is purpose to expand the VLAN space by tagging the tagged packets.

Comprehensive QoS

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 allowing maximum control of network resources.

Enhanced Security

Port Security ensures access to switch ports based on MAC address, limits the total number of devices from using a switch port and protects against MAC flooding attacks.

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 dynamic VLAN assignment with RADIUS server by guest VLAN.

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. This is done by hardware, so switching performance is not compromised.

Security Shell (SSHv1.5/v2.0) and Secure Sockets Layer (SSL/HTTPS) encrypt network management information via Telnet and web, providing secure network management.

TACACS+3.0 Authentication for applications such as network access or IP mobility enables centralized control of the switch and restricts unauthorized users from altering the configuration of the switch.

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.

IP Source Guard is enabled on a trunk port with a large number of VLANs that have DHCP snooping enabled, you might run out of ACL.

DHCP snooping provides security by filtering un-trusted DHCP messages and by building and maintaining a DHCP snooping binding table.



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ECS3510-26P Product Specifications

Features Ports Security 24 RJ-45 10/100Base-TX ports Port security (Static/Dynamic) 2 Combo Gigabit (RJ-45/SFP) ports MAC Limitation 1 RJ-45 console port L2/L3/L4 Access Control List RADIUS TACAS+ Performance SSH (v1.5/v2.0) Switching Capability: 8.8 Gbps HTTPS/SSL Packet Buffer Size: 4 Mb Support IEEE 802.1X MAC Address Table: 8 K Port based MAC based L2 Features VLAN Assignment, QoS Assignment, Web authentication, MAC Auto-negotiation for port speed and duplex mode authentication Flow Control: Guest VLAN IEEE 802.3x for full duplex mode Intrusion Lock (Link Detection) Back-Pressure for half duplex mode IP source guard Supports jumbo frames up to 10KB **DoS Protection** Spanning Tree Protocol: **ARP** Inspection IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) Management IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) Switch Management: Fast forwarding CLI via console port or Telnet BPDU Forwarding with STP disable WEB management Auto edge port SNMP v1, v2c, v3 **BPDU** filter/guard Firmware & Configuration: Root Guard Firmware upgrade via TFTP/HTTP Storm Control Multiple configuration files VLANs: Configuration file upload/download via TFTP/HTTP Supports IEEE 802.1Q VLANs Supports RMON (groups 1, 2, 3 and 9), RMON II, MIB I/II Port-based VLANs Supports BOOTP, DHCP client for IP address assignment MAC-based VLANs Supports DHCP Relay, DHCP Snooping IEEE 802.1v Protocol-based VLANs DNS Client, Proxy IP-based Port Mirroring Private VLAN Supports SNTP Voice VLAN Event/Error Log/Syslog, SMTP Guest VLAN Supports LLDP (802.1ab), LLDP-MED **VLAN Aggregation** Remote Ping Auto VLAN assignment **IP** Clustering **GVRP** MAC Flash MVR Dynamic ARP Inspection Supports Q-in-Q IPv6 Management VLAN Translation Link Aggregation: PoE Features Static Trunk IEEE 802.3ad Link Aggregation Control Protocol Total Power Budget: 185 Watts Trunk groups: 5, Trunk links: 2~8 Compliant with IEEE 802.3af IGMP Snooping: Compliant with IEEE 802.3at draft Simultaneously 24 ports can support a maximum of 7.5 W per port IGMP v1/v2/v3 snooping IGMP v1/v2 Querier Simultaneously 12 ports can support a maximum of 15.4 W per port IGMP Filtering/Throtlling Simultaneously 6 ports (1~6) can support a maximum of 30 W per IGMP Immediate Leave port IGMP Snooping Leave Proxy IGMP v1/v2/v3 proxy Mechanical Dimensions: 44 cm x 28 cm x 4.4 cm (17.32 X 11.0 X 1.73 in) QoS Weight: 3.28 kg (7.23 lb) Priority Queues: 4 hardware queues per port LED Indicators: Port, Uplink, System, Diagnostic Traffic classification based on IEEE 802.1p CoS, IP Precedence, DSCP. Safety TCP/UDP port number, IPv6, IP SA/DA, MAC SA/DA UL (CSA 22.2. NO 60950-1 & UL60950-1) Supports DWRR and Strict scheduling

CB (IEC60950-1)

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Rate Limiting (Ingress and Egress, per port base)

IPv4/v6 Diffserv

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ECS3510-26P Product Specifications

Features

Electromagnetic Compatibility

CE Mark FCC Class A VCCI Class A

Environmental Specifications

Temperature:

IEC 68-2-14 0°C to 50°C (32°F to 122°F Standard Operating) -40°C to 70°C (-40°F to 158°F 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

Power Supply

AC Power cord 100 to 240 V, 50-60 Hz, 3.0A Power Supply Internal, auto-ranging transformer: 100 to 240 VAC, 50 to 60 Hz

Warranty

Please check www.edge-core.com for the warranty terms in your country.

For More Information

To find out more about Edgecore Networks Corporation products and solutions, visit www.edge-core.com.

About Edgecore Networks Corporation

Edgecore Networks Corporation is in the business of providing innovative network solutions. In the service provider network, in the data center or in the cloud, Edgecore Networks Corporation delivers the software and systems that transform the way the world connects. Edgecore Networks Corporation serves customers and partners worldwide. Additional information can be found at www.edge-core.com.

Edgecore Networks Corporation is a subsidiary of Accton Technology Corporation, the leading network ODM company. The Edgecore Data Center switches are developed and manufactured by Accton.

To purchase Edgecore Networks solutions, please contact your Edgecore Networks Corporation representatives at +886 3 563 8888 (HQ) or +1 (949)-336-6801 or authorized resellers.

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Ordering Information

Optional Accessories	Product Description
ET3201-FXP	100BASE-FX, Small Form Factor Pluggable (Distance: 2 km; Wavelength:1310 nm)
ET3201-FX20	100BASE-FX, Small Form Factor Pluggable (Distance: 20 km; Wavelength:1310 nm)
ET4201-SX	1Gbps, Small Form Factor Pluggable (Distance: 500 m; Wavelength: 850nm)
ET4201-LX	1Gbps, Small Form Factor Pluggable (Distance: 10 km; Wavelength: 1310 nm)
ET4201-LHX	1Gbps, Small Form Factor Pluggable (Distance: 40 km; Wavelength: 1310 nm)
ECView Pro	SNMP Network Management Software

