

L2+/Lite L3 2.5G Multi-Gig Ethernet Switch ECS4125-10T/ECS4125-10P



TELECOM INFRA PROJECT OpenLAN Switching (OLS)



The Edgecore ECS4125-10T/ECS4125-10P is a robust 2.5 Gigabit Ethernet access switch designed for Small to Medium-sized Businesses (SMBs), enterprises, and campus environments. Featuring two 10G uplink ports, it is ideal for situations that demand high availability, robust security, advanced multicast management, and exceptional Quality of Service (QoS) at the network edge. Additionally, it offers IPv6 management, security capabilities, multicast control, and versatile cloud management options such as eccLOUD or TIP (Telecom Infra Project) OpenLAN Switching.

Key Features and Benefits

PoE++ Support for Wi-Fi 6/6E/7 APs

The ECS4125-10P is a PoE switch that can provide up to 60 W of power to attached devices with a total power budget of 240 W. It can deliver up to 30 W on 8 ports, or 60 W on 4 ports. PoE eliminates the need for individual power sources for devices in the network, saving on costs for power cables and avoiding power outlet availability issues. If the power demand exceeds the switch's maximum power budget, ports can be prioritized to receive power.

Multi-Gig Performance and Scalability

The Edgecore ECS4125-10T/ECS4125-10P is designed to meet the increasing demand for high-speed connectivity in modern networks. With its 2.5 Gigabit Ethernet ports and 80 Gbps switching capacity, it provides a powerful and efficient solution for organizations looking forward to upgrade their network infrastructure. This switch is optimized to support high-performance 2.5 Gigabit 11ax Wi-Fi APs, enabling faster and more responsive connectivity for a wide range of applications. Whether it's improving the performance of wireless access points or enhancing file transfer speeds, the Edgecore ECS4125-10T/ECS4125-10P is a valuable addition to any network environment.

The two 10G SFP+ ports provide uplink flexibility, allowing the insertion of fiber or copper gigabit transceivers, to create up to 20 Gbps high-speed uplinks to service provider, corporate, or campus networks, reducing bottlenecks and increasing the performance of the access network.

Continuous Availability

The 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.

The IEEE 802.1s Multiple Spanning Tree Protocol runs STP per VLAN base, providing Layer 2 load sharing on redundant links up to 64 instances.

The ECS4125-10T/ECS4125-10P supports IEEE 802.3ad Link Aggregation Control Protocol (LACP). It increases bandwidth by automatically aggregating several physical links together as a logical trunk and offers load balancing and fault tolerance for uplink connections.

The ECS4125-10T/ECS4125-10P also supports G.8032 Ethernet Ring Protection Switching with the ability for the network to detect and recover from incidents without impacting users, meeting the most demanding quality and availability requirements. Rapid recovery time when problems do occur is as low as 50 ms.

Enhanced Security

Port security 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. When a user is authenticated, the VLAN, QoS and security policy are automatically applied the port where the user is connected, otherwise the port is grouped in a guest VLAN with limited access.

DHCP snooping allows a switch to protect a network from rogue DHCP servers that offer invalid IP addresses.

IP Source Guard prevents users from using IP addresses that were not assigned to them.

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, or TCP/UDP ports. ACLs are hardware supported, so switching performance is not compromised.



Private VLANs (traffic segmentation per port) isolate edge ports to ensure user privacy.

DAI (Dynamic ARP Inspection) is a security feature that validates Address Resolution Protocol (ARP) packets in a network. DAI allows a network administrator to intercept, log, and discard ARP packets with invalid MAC-to-IP address bindings.

Secure Shell (SSH) and Secure Sockets Layer (SSL/HTTPS) encrypt Telnet and web access to the switch, providing secure network management.

The ECS4125-10T/ECS4125-10P also supports both RADIUS and TACACS+ authentication methods to secure your network.

Comprehensive QoS

The ECS4125-10T/ECS4125-10P offers advanced QoS for marking, classification, and scheduling to deliver best-in-class performance for data, voice, and video traffic at wire speed. Eight egress queues per port enable differentiated management of up to eight traffic types through the switch.

Traffic is prioritized according to 802.1p and DSCP to provide optimal performance for real-time applications. Weighted Round Robin (WRR) and strict priority ensure differential prioritization of packet flows and avoid congestion of ingress and egress queues. Asymmetric bidirectional rate-limiting, per port or per traffic class, preserves network bandwidth and allows maximum control of network resources.

Robust Multicast Control

IGMP snooping prevents the flooding of multicast traffic by dynamically configuring switch ports so that multicast traffic is forwarded to only those ports associated with an IP multicast receiver. IGMP increases the performance of networks by reducing multicast traffic flooding.

IGMP groups allow you to create customer packages for IP-TV channels, making switch configuration easy. IGMP Filtering prevents subscribers seeing unsubscribed IP-TV channels. And, IGMP Throttling allows you to set how many IP-TV channels a subscriber can receive simultaneously.

Multicast VLANs are shared in the network, while subscribers remain in separate VLANs. This increases network security and saves bandwidth on core links. Multicast streams do not have to be routed in core L3 switches, which saves CPU power.

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

IPv6 Support

The switch is equipped with various IPv6 features to support modern networking requirements. These features include IPv6 Management, DHCPv6 Snooping with Option 37, IPv6 Source Guard, and MVR6.

Superior Management

An industry-standard command-line interface (CLI), accessed through the console port or Telnet/SSH, provides a familiar user interface and command set for users to manage the switch.

An embedded user-friendly web interface helps users to quickly and simply configure switches.

The ECS4125-10T/ECS4125-10P supports SNMPv1,2c,3 and four-group RMON. The switch provides a complete private MIB for the configuration of most functions via the SNMP protocol.

Administrators can backup and restore firmware and configuration files via TFTP or FTP. The switch also provides the configuration of auto-provision for ease of use in large deployments.

AAA (Authentication, Authorization and Accounting) via RADIUS, TACACS+, enables centralized control of the switches. Access rights can be authorized per user and account for all actions performed by administrators.

Service Monitoring and Management

The ECS4125-10T/ECS4125-10P supports IEEE 802.1ag and ITU-T Y.1731, allowing service providers to monitor end-to-end services, identify connectivity and performance issues, and isolate problems from a remote location without dispatching an engineer onsite.

The switch also provides the capability to monitor service availability, delay, jitter, and dropped packets for verifying SLA conformance (for billing purposes) and providing advance indication of performance degradation before a service outage occurs.

Virtual Private Networks

The ECS4125-10T/ECS4125-10P supports Layer 2 VPNs by using Q-in-Q functions, where an 802.1Q tag from a customer VLAN (called CE-VLAN ID) is encapsulated in a second 802.1Q tag from a service-provider network (called an SP-VLAN ID). The switch supports rewriting the VLAN tag of egress traffic when the ingress traffic is tagged.

The switch also supports Layer 2 Protocol Tunneling for STP, CDP, VTP, PVST+, with Cisco-proprietary multicast address (01-00-0c-cd-cd-d0) replacement.

Reliability and Energy Efficiency

The design of the ECS4125-10T/ECS4125-10P incorporates high energy efficiency in order to reduce the impact on the environment. The Green Ethernet power-saving features and smart fan design significantly reduce the power consumption. Datasheet L2+/Lite L3 Multi-Gig Ethernet Switch



No. Control Control Control R1-45 Console Port 1 1 terformance Switching Capacity 80 Gpbs 80 Gpbs Forwarding Rate 5952 Mpps 5952 Mpps Flash Memory 64 MB 64 MB MAC Address Table Size 32 K 32 K Jumbo Framas 12 KB 12 KB Auto-negotiation, Auto-MDI/MDIX Yes Yes Latto-negotiation, Auto-MDI/MDIX Yes Yes Auto-negotiation, Auto-MDI/MDIX Yes Yes Polic Ports X 8 Yes		Product Model	ECS4125-10T	ECS4125-10P
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	ecCLOUD/TIP(OLS) Management		Supported	Supported

Datasheet L2+/Lite L3 Multi-Gig Ethernet Switch



L2 Features

- 1/2.5G BASE-T copper interfaces
- Auto-negotiation for port speed and duplex mode
- Auto MDI/MDI-X
- Dual-speed (1G and 10G) fiber interfaces
- SFP+ Ports Support: IEEE 802.3ae changeable (10GBASE-SR/LR) IEEE 802.3z (1000BASE-SX/LX) transceivers, and 10G DAC/AOC
- Digital Diagnostic Monitoring (DDM) on 10G SFP+ port
- Flow Control: IEEE 802.3x for full duplex mode Back-Pressure for half duplex mode
- Jumbo frames 12KB
- Broadcast/Multicast/ Unknown Unicast Storm Control
- 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), 64 instances
 BPDU Guard
 BPDU filtering
 - Root Guard
 - BPDU transparent
 - Loopback detection
- Non-Spanning Tree Loopback detection
- ITU-T G.8032 Ethernet Ring Protection:
- Sub 50 msec convergence Revertive operation mode Multiple-ring network
- VLANs:
 - Supports 4K VLAN Port-based VLAN IEEE 802.1Q VLAN GVRP IEEE 802.1v Protocol-based VLAN IP Subnet-based VLAN MAC-based VLAN Traffic Segmentation
- L2 Virtual Private VLAN:
 - Q-in-Q L2 Protocol tunneling (xSTP, CDP, VTP and PVST+, LLDP) CDP/PVST+ Filtering Selective Q-in-Q
- Link Aggregation: Static Trunk
 IEEE 802.3ad Link Aggregation Control Protocol
 Trunk Groups: 16, up to 8 GE/4 10G ports per group
 Load Balancing: SA+DA, SA, DA, SIP+DIP, SIP, DIP
- IGMP Snooping:
 IGMP v1/v2/v3 snooping
 IGMP Proxy reporting
 IGMP Filtering
 IGMP Throttling
 IGMP Immediate Leave
 IGMP Querier
- MVR (Multicast VLAN Registration): Supports 5 multicast VLANs
- Port mirroring
- Remote port mirror (RSPAN)

QoS Features

- Priority Queues: 8 hardware queues per port
- Traffic classification: IEEE 802.1p CoS
- IP Precedence
- DSCP

MAC Access control list (Source/Destination MAC, Ether type, Priority ID/VLAN ID)

IP standard access control list (Source IP)

IP extended access control list (Source/Destination IP, Protocol, TCP/UDP port number)

- Traffic Scheduling: Strict Priority
 Weighted Round Robin Strict + WRR
- Ingress policy map (police rate, remark CoS)
- Egress policy map (police rate, remark CoS/DSCP)
- Rate Limiting (Ingress and Egress, per port base)
 GE: Resolution 64 Kbps ~ 1,000 Mbps
 10G: Resolution 64 Kbps ~ 10,000 Mbps
- Auto Traffic Control

Security

- Port security
- IEEE 802.1X port based and MAC based authentication
- Dynamic VLAN Assignment, Auto QoS
- MAC authentication
- Web authentication
- Voice VLAN
- Guest VLAN
- L2/L3/L4 Access Control List: MAC Access control list (Source/Destination MAC, Ether type, Priority ID/VLAN ID)
 IP standard access control list (Source IP)
 IP subard access control list (Source IP)
 - IP extended access control list (Source/Destination IP, Protocol, TCP/UDP port number)
- IPv6 ACL
- DHCP Snooping
- DHCP Option 82
- DHCP Option 82 Relay
- IP Source Guard
- PPPoE IA
- Dynamic ARP Inspection
- Denial of Service
- Login Security
- RADIUS authentication
- RADIUS accounting
- TACACS + authentication
- TACACS + accounting
- TACACS + authorization
- Management Interface Access Filtering (SNMP, Web, Telnet)
- SSH (v2) for secure Telnet
- SSL for HTTPS
- SNMPv1/v2c/v3

Green Ethernet

■ IEEE 802.3az Energy-Efficient Ethernet (EEE)

Datasheet L2+/Lite L3 Multi-Gig Ethernet Switch



IPv6 Features

- IPv4/IPv6 Dual Protocol stack
- IPv6 Address Types Stack: Unicast
- IPv6 Neighbor Discovery: Duplicate address Address resolution Unreachable neighbor detection
- Stateless auto-configuration
- Manual configuration
- Remote IPv6 ping
- IPv6 Telnet support
- HTTP over IPv6
- SNMP over IPv6
- IPv6 Syslog support
- IPv6 TFTP support
- MLD Snooping v1/v2
- IPv6 source guard
- DHCPv6 snooping
- MVR6

Management

- Switch Management: CLI via console port or Telnet/SSH Web management SNMP v1, v2c, v3
- Firmware and Configuration:
 Firmware upgrade via TFTP/HTTP/FTP/SFTP server
 Multiple configuration files
 Configuration file upload/download via TFTP/HTTP/FTP/SFTP server
- RMON (groups 1, 2, 3 and 9)
- BOOTP, DHCP client for IP address assignment
- DHCP dynamic provision option 66,67
- SNTP
- Syslog (local flash)
- Remotelog (RFC3164)
- SMTP (E-mail Notification)
- Support LLDP (802.1ab)
- sFlow v4, v5

Routing

- IPv4/IPv6 Static Route
- RIP v1/v2

Dying Gasp

Safety

- UL (CSA 22.2 NO. 62368-1 and UL 62368-1)
- CB (IEC/EN 62368-1)

Power Supply

Power input: 100 to 240 VAC, 50/60 Hz

Electromagnetic Compatibility

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

Environmental Specifications

- Temperature:
 - 0°C to 50°C standard operation -40°C to 70°C (non-Operating)
- Humidity: 10% to 90% (non-condensing)

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		
ET4202-SX	1Gbps, (Distance: 500 m; Wavelength: 850 nm, DDM)		
ET4202-LX	1Gbps, (Distance: 10 km; Wavelength: 1310 nm, DDM)		
ET4202-EX	1Gbps, (Distance: 40 km; Wavelength: 1310 nm, DDM)		
ET4202-ZX	1Gbps, (Distance: 80 km; Wavelength: 1550 nm, DDM)		
ET4202-RJ45	1Gbps , (Distance:100 m)		
ET5402-SR	10Gbps, (Distance: 3000 m; Wavelength: 850 nm, DDM)		
ET5402-LR	10Gbps, (Distance: 10 km; Wavelength: 1310 nm, DDM)		
ET5402-ER	10Gbps, (Distance: 40 km; Wavelength: 1550 nm, DDM)		
ET5402-ZR	10Gbps, (Distance: 80 km; Wavelength: 1550 nm, DDM)		
ET5402-DAC-xM	10G to 10G DAC cable,10G SFP+ DAC cable, 1-5 m		
ET5402-AOC-xM	10G to 10G AOC cable,10G SFP+ AOC cable, 5-100 m		
ecCLOUD Network Management Software	ecCLOUD Network Management Software		

• Note: More optics and detailed cabling information can be found at www.edge-core.com.