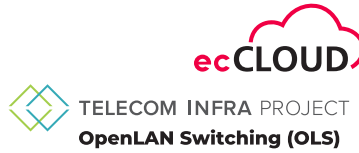


L2+/Lite L3 Gigabit Ethernet Switch

ECS4150 Series



Product Highlights:

- 10°C to 65°C (ECS4150-28F), -5°C to 45°C (except ECS4150-28F)
- 6KV surge protection
- Fanless and noiseless design (ECS4150-28T)
- 24-port 1GE and 4-port 10G SFP+ uplink (28-port models)
- 48-port 1GE and 6-port 25G SFP28 uplink (54-port models)
- IEEE 802.3 af/at support with 370 W budget (ECS4150-28P)
- IEEE 802.3 af/at/bt support with 740 W budget (ECS4150-54P)
- Packet buffer size (1.5 MB for 28-port models, 3 MB for 54-port models)
- Web/CLI/SNMP/Cloud multi-management
- 3-years warranty

The Edgecore ECS4150 Series is a comprehensive portfolio of L2+/Lite L3 Gigabit Ethernet access and fiber switches featuring advanced 10G SFP+ or 25G SFP28 uplinks. Designed with enterprise connectivity and managed services in mind, the series empowers System Integrators (SIs) and Managed Service Providers (MSPs) to deliver robust, scalable, and cloud-managed networking solutions. Positioned perfectly as cloud-edge access switches, they provide the ultimate Gigabit networking foundation for SMBs, large enterprise campuses, and smart building infrastructures, seamlessly connecting modern IoT, Wi-Fi, and diverse edge devices.

To address diverse enterprise deployment scenarios, the ECS4150 Series offers highly versatile models that significantly simplify SI rollouts. The powerful PoE variants (ECS4150-28P and ECS4150-54P) deliver scalable power budgets with up to 30 Watts (PoE+) or 90 Watts (PoE++) per port. This provides a turnkey infrastructure to power high-demand devices such as Wi-Fi 6/6E access points, VoIP systems, PTZ surveillance cameras, and high-density IoT sensors over standard Cat 5 UTP cables, drastically reducing cabling complexity and installation costs for system integrators. For smart factories, warehouses, or environmentally demanding edge locations, the temperature-hardened ECS4150-28F serves as a highly resilient fiber switch.

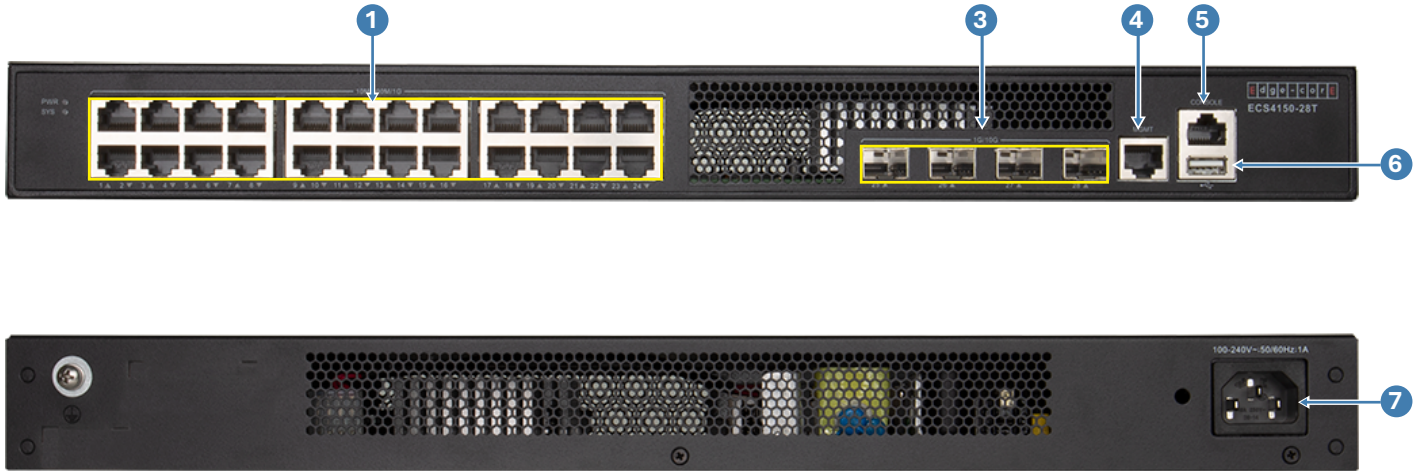
Beyond hardware flexibility, the entire ECS4150 Series is engineered to minimize operational overhead for MSPs while ensuring high availability for enterprise clients. Packed with advanced L2+/Lite L3 routing functionality, comprehensive security protocols, and advanced QoS, the series guarantees optimal traffic flow for mission-critical applications. Crucially for managed services, the switches support Zero-Touch Provisioning (ZTP) to accelerate deployments. They also offer versatile multi-management interfaces—including ecCLOUD, standard Web/CLI/SNMP, and complete Private MIB integration—allowing MSPs to fully monitor and control client networks via their own Element Management Systems (EMS). Combined with forward-looking IPv6 capabilities, the ECS4150 Series provides a future-proof, highly secure, and centrally manageable access solution.

Key Features and Benefits

- **High-Speed Enterprise Access:** Delivers versatile copper or fiber Gigabit access with powerful 10G or 25G uplinks.
- **High Availability:** Features ITU-T G.8032 ERPS L2 ring protection with sub-50 ms convergence time.
- **L2+/Lite L3 Routing:** Upgrades network efficiency with essential routing functions including IPv4/IPv6 Static Route and RIPv1/v2.
- **Robust Security and QoS:** Comprehensive security protocols, hardware queues, and extensive IPv6 capabilities to safeguard mission-critical traffic.
- **MSP-Optimized Management:** Accelerates rollouts with Zero-Touch Provisioning (ZTP) and offers deep integration via ecCLOUD and complete Private MIB for custom EMS platforms

Interfaces

ECS4150-28T



ECS4150-28P

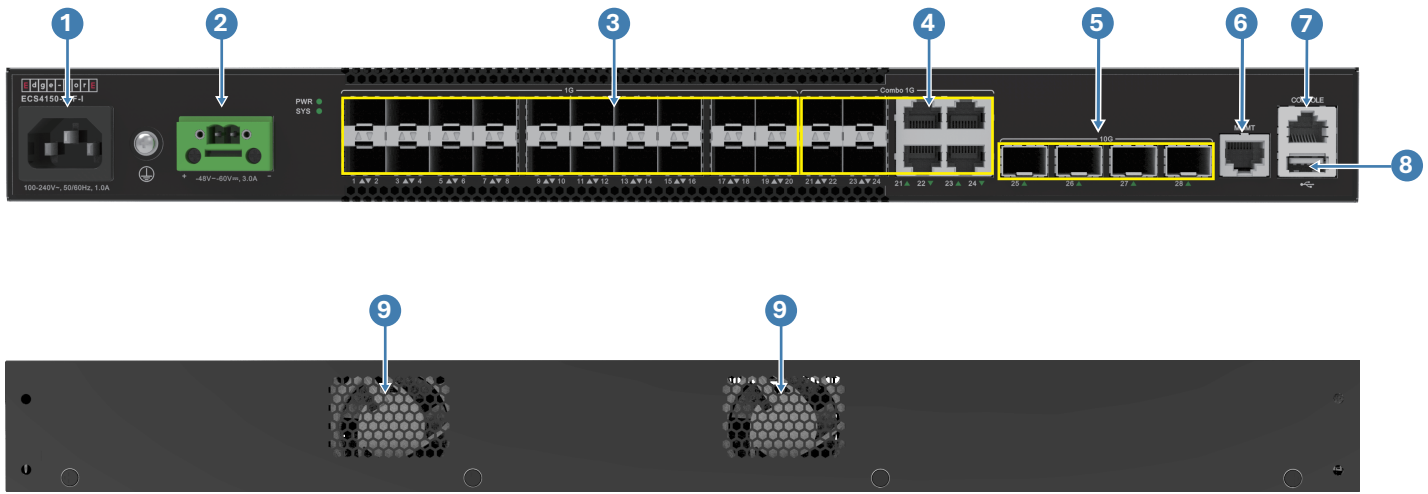


Description

- | | |
|--|------------------------|
| 1. 24 x RJ-45 10/100/1000BASE-T ports (ECS4150-28T) | 5. RJ-45 console port |
| 2. 24 x RJ-45 10/100/1000BASE-T PoE+ ports (ECS4150-28P) (max. 30 W) | 6. USB management port |
| 3. 4 x SFP+ 10 Gigabit uplink ports | 7. AC power input |
| 4. RJ-45 management port | |

Interfaces

ECS4150-28F

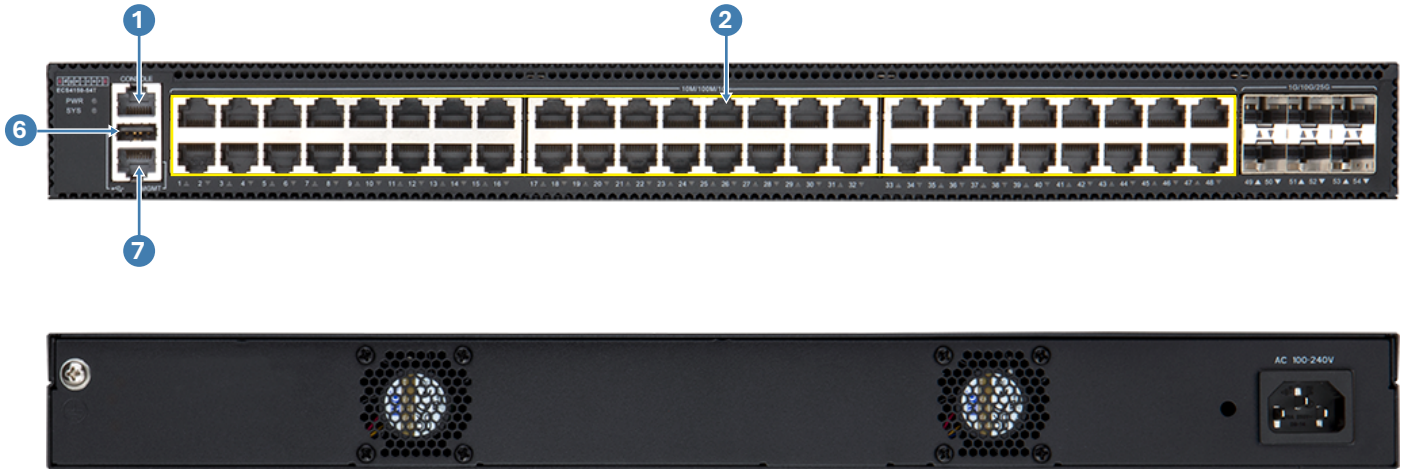


Description

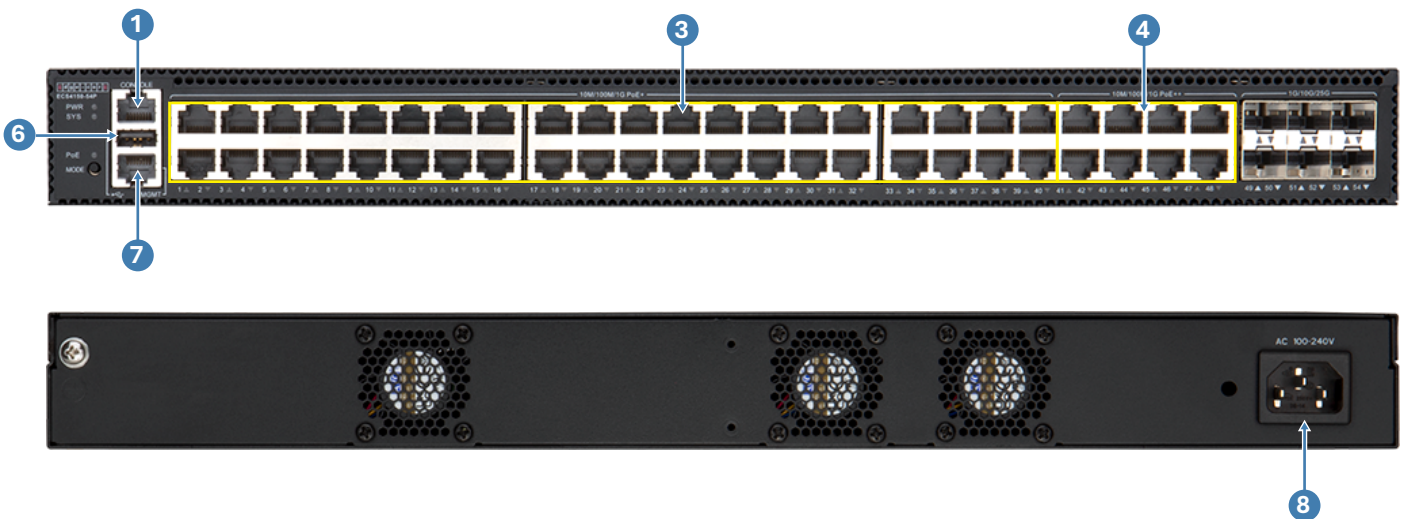
- | | |
|--|--------------------------|
| 1. AC power input | 6. RJ-45 management port |
| 2. DC power input | 7. RJ-45 console port |
| 3. 20 x 100/1000BASE-X SFP Ports | 8. USB management port |
| 4. 4 x Combo Gigabit (RJ-45/SFP) Ports | 9. Fans |
| 5. 4 x SFP+ 10 Gigabit uplink ports | |

Interfaces

ECS4150-54T





ECS4150-54P



Description

- | | |
|---|-------------------------------|
| 1. RJ-45 console port | 5. 6 x SFP28 25G uplink ports |
| 2. 48 x RJ-45 10/100/1000BASE-T ports (ECS4150-54T) | 6. USB management port |
| 3. 40 x RJ-45 10/100/1000BASE-T PoE ports (ECS4150-54P)
Port 1~40: PoE+ (max. 30 W) | 7. RJ-45 management port |
| 4. 8 x RJ-45 10/100/1000BASE-T PoE ports (ECS4150-54P)
Port 41~48: PoE++ (max. 90 W) | 8. AC power input |

Product Model		ECS4150-28T	ECS4150-28P
Product Image			
Port	RJ-45 10/100/1000BASE-T Ports	24	24
	SFP+ 10 Gigabit Uplink Ports	4	4
	RJ-45 Console Port	1	1
	RJ-45 Out-of-Band Management Port	1	1
	USB Port	1	1
Performance	Switching Capacity	128 Gbps	128 Gbps
	Forwarding Rate	95 Mpps	95 Mpps
	NAND Flash Memory	256 MB	256 MB
	DRAM	1 GB	1 GB
	Packet Buffer	1.5 MB	1.5 MB
	MAC Address Table	16 K	16 K
	Jumbo Frames	10 KB	10 KB
	Auto-negotiation, Auto-MDI/MDIX	Yes	Yes
	Surge Protection	6KV (RJ-45), 6KV (Power)	6KV (RJ-45), 6KV (Power)
	MTBF (at 25°C)	655,028 hrs	449,388 hrs
	Heat Dissipation (BTU/hr)	86	1536
	Acoustic Noise (at 25°C)	0 dBA	< 40 dBA
Mechanical	Dimension (W x D x H) cm	44 x 22 x 4.4 cm	44 x 28 x 4.4 cm
	Weight	3.05 kg (6.72 lb)	4.75 kg (10.47 lb)
Power Supply	AC 100-240 VAC, 50/60 Hz	Yes	Yes
	Max System Power Consumption (Watts)	25 Watts	450 Watts
PoE	IEEE 802.3af	X	Yes
	IEEE 802.3at	X	Yes
	Power Budget	X	370 W
	Auto Disable Exceeding Power Budget	X	Yes
	Dynamic Power Allocation	X	Yes
Environmental	Operating Temperature	-5 ~ 45°C	-5 ~ 45°C
	Storage Temperature	-40 ~ 70°C	-40 ~ 70°C
	Operating Humidity (non-condensing)	5% to 95%	5% to 95%
	Storage Humidity (non-condensing)	5% to 95%	5% to 95%
	Environmental Regulation Compliance: WEEE	Yes	Yes
	Environmental Regulation Compliance: RoHS	Yes	Yes
Certification	FCC Class A	Yes	Yes
	CE	Yes	Yes
	Safety Compliance: CB (IEC/EN 62368-1)	Yes	Yes
	Safety Compliance: UL (CSA 22.2 No 62368-1 & UL62368-1)	Yes	Yes
ecCLOUD Management		Supported	Supported
TIP (OLS) Management			



Product Model

ECS4150-28F

Product Image



Port	100/1000BASE-X SFP Ports	20
	Combo Gigabit (RJ-45/SFP) Ports	4
	SFP+ 10 Gigabit Uplink Ports	4
	RJ-45 Console Port	1
	RJ-45 Out-of-Band Management Port	1
	USB Port	1
Performance	Switching Capacity	128 Gbps
	Forwarding Rate	95 Mpps
	NAND Flash Memory	256 MB
	DRAM	1 GB
	Packet Buffer	1.5 MB
	MAC Address Table	16 K
	Jumbo Frames	10 KB
	Auto-negotiation, Auto-MDI/MDIX	Yes
	Surge Protection	6KV (RJ-45), 6KV (AC), 4KV (DC)
	MTBF (at 25°C)	332,552 hrs
	Heat Dissipation (BTU/hr)	205 Btu/hr
Acoustic Noise (at 25°C)	41 dBA	
Mechanical	Dimension (W x D x H) cm	44 x 22 x 4.4 cm
	Weight	2.98 kg (6.57 lb)
Power Supply	AC 100-240 VAC, 50/60 Hz	Yes
	DC Power Input (-48 – -60 V)	Yes
	Max System Power Consumption (Watts)	60 Watts
Environmental	Operating Temperature	-10 – 65°C
	Storage Temperature	-40 – 70°C
	Operating Humidity (non-condensing)	5% – 95%
	Storage Humidity (non-condensing)	5% – 95%
	Environmental Regulation Compliance: WEEE	Yes
	Environmental Regulation Compliance: RoHS	Yes
Certification	FCC Class A	Yes
	CE	Yes
	Safety Compliance: CB (IEC/EN 62368-1)	Yes
	Safety Compliance: UL (CSA 22.2 No 62368-1 & UL62368-1)	Yes
	ecCLOUD Management TIP (OLS) Management	Supported

Product Model		ECS4150-54T	ECS4150-54P
Product Image			
Port	RJ-45 10/100/1000BASE-T Ports	48	48
	SFP28 25G Uplink Ports	6	6
	RJ-45 Console Port	1	1
	RJ-45 Out-of-Band Management Port	1	1
	USB Port	1	1
Performance	Switching Capacity	396 Gbps	396 Gbps
	Forwarding Rate	295 Mpps	295 Mpps
	NAND Flash Memory	256 MB	256 MB
	DRAM	1 GB	1 GB
	Packet Buffer	3MB	3MB
	MAC Address Table	16 K	16 K
	Jumbo Frames	10 KB	10 KB
	Auto-negotiation, Auto-MDI/MDIX	Yes	Yes
	Surge Protection	6KV (RJ-45), 6KV (Power)	6KV (RJ-45), 6KV (Power)
	MTBF (at 25°C)	516,924 hrs	361,493 hrs
	Heat Dissipation (BTU/hr)	177	2849
Acoustic Noise (at 25°C)	< 16 dBA	< 36 dBA	
Mechanical	Dimension (W x D x H) mm	442 x 420 x 43.6	442 x 420 x 43.6
	Weight	4.7 kg (10.36 lb)	5.5 kg (12.13 lb)
Power Supply	AC 100-240 VAC, 50/60 Hz	Yes	Yes
	Max System Power Consumption (Watts)	52 W	835 W
PoE	IEEE 802.3af	X	Yes
	IEEE 802.3at	X	Yes
	IEEE 802.3bt	X	Yes
	Power Budget	X	740 W
	Auto Disable Exceeding Power Budget	X	Yes
	Dynamic Power Allocation	X	Yes
Environmental	Operating Temperature	-5 ~ 45°C	-5 ~ 45°C
	Storage Temperature	-40 ~ 70°C	-40 ~ 70°C
	Operating Humidity (non-condensing)	5% to 95%	5% to 95%
	Storage Humidity (non-condensing)	5% to 95%	5% to 95%
	Environmental Regulation Compliance: WEEE	Yes	Yes
	Environmental Regulation Compliance: RoHS	Yes	Yes
Certification	FCC Class A	Yes	Yes
	CE	Yes	Yes
	Safety Compliance: CB (IEC/EN 62368-1)	Yes	Yes
	Safety Compliance: UL (CSA 22.2 No 62368-1 & UL62368-1)	Yes	Yes
	ecCLOUD Management TIP (OLS) Management	Supported	Supported

L2 Features

- 10/100/1000BASE-T copper interfaces
- Auto-negotiation for port speed and duplex mode
- Auto MDI/MDI-X
- Multi-speed (1G, 10G, 25G) fiber interfaces
- SFP28 Ports Support:
 - IEEE 802.3ae (10GBASE-SR/LR)
 - IEEE 802.3ay (25GBASE-SR)
 - IEEE 802.3cc (25GBASE-LR)
 - IEEE 802.3z (1000BASE-SX/LX) transceivers, and 10G/25G DAC/AOC
- 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 25G SFP28 port
- Flow Control:
 - IEEE 802.3x for full-duplex mode
 - Back-Pressure for half-duplex mode
- Jumbo frames 10KB
- 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.8032v2 Ethernet Ring Protection Switch
 - 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: 28, up to 8 GE/6 25GE ports per group
 - Load Balancing: SA+DA, SA, DA, SIP+DIP, SIP, DIP
- Multi-chassis Link Aggregation
- Static LACP
- IGMP Snooping:
 - IGMP Authentication
 - 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
 - VLAN Mirror/Mac Based Mirror/ACL Mirror
- 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
 - 25GE: Resolution 64 Kbps ~ 25,000 Mbps (54-port models)
- Auto Traffic Control

Security

- Port security
- IEEE 802.1X port based and MAC based authentication
- IEEE 802.1X Supplicant
- 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 extended access control list (Source/Destination IP, Protocol, TCP/UDP port number)
- IPv6 ACL
- DHCP Snooping
- DHCP Info
- 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 security Telnet
- SSL for HTTPS
- SNMP v1/v2c/v3

Green Ethernet

- IEEE 802.3az Energy-Efficient Ethernet (EEE)

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

- Zero Touch provisioning
- mDNS
- Switch Management:
 - CLI via console port or Telnet
 - 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)
- DHCP client for IP address assignment
- DHCP dynamic provision Option 66,67
- SNTP
- Syslog (local Flash)
- Remotelog (RFC3164)
- SMTP (E-mail Notification)
- Supports LLDP (802.1ab)
 - sFlow v4, v5
 - IPv6 sFlow

OAM

- IEEE 802.3ah EFM (Ethernet in the First Mile)
- IEEE 802.1ag Connectivity Fault Management
 - Cross check
 - Link Trace
 - Loopback
- ITU-T Y.1731 ETH OAM Performance Monitor

Dying Gasp

Safety

- UL (CSA 22.2 NO 62368-1 and UL62368-1)
- CB (IEC/EN 62368-1)
- BSMI (CNS 15598-1)

Power Supply

- Power Input: 100 to 240 VAC, 50/60 Hz

Supported Transceivers and Cables

- 1000BASE-SX/LX/EX/ZX/RJ45
- 10GBASE-SR/LR/ER/RJ45
- 10GBASE-DAC/AOC Cable
- 25GBASE-SR/LR (54-port models)
- 25GBASE-DAC/AOC Cable (54-port models)
- Note: More optics and detailed cabling information can be found at www.edge-core.com.

Routing

- L3 Features
 - IPv4 Multi-netting
 - CIDR (Classless Inter-Domain Routing)
 - Unicast Routing
 - Static Routes
- L3 Features IPv6
 - IPv6 Unicast Routing
 - Static Routes
- RIPv1/v2

Electromagnetic Compatibility

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

Environmental Specifications

- Temperature:
 - -10°C to 65°C (Standard Operating): ECS4150-28F
 - -5°C to 45°C (Standard Operating): Other models
 - -40°C to 70°C (Non-Operating)
- Humidity: 5% to 95% (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 (ECS4150 all Series)	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)
ET4202-BD43-x0-l	1Gbps, SFP BIDI TX 1490 nm/RX 1310 nm, 10/20/40 km, I-temp (x=1, 2, 4)
ET4202-BD34-x0-l	1Gbps, SFP BIDI TX 1310 nm/RX 1490 nm, 10/20/40 km, I-temp (x=1, 2, 4)
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-RJ45	10Gbps, (Distance:100 m)
ET5402-DAC-xM	10Gbps, SFP+ DAC xM cable (x=1, 3, 5)
ET5402-AOC-xM	10Gbps, SFP+ AOC xM cable (x=3, 5, 7, 10)

ecCLOUD/TIP (OLS) Network Management Software

Optional Accessories (ECS4150-54T/ECS4150-54P)	Product Description
ET7302-SR	25Gbps, SFP28 Short Reach Transceiver
ET7302-LR	25Gbps, SFP28 Long Reach Transceiver
ET7302-DAC-xM	25Gbps, SFP28 DAC cable with xM (x= 1, 3, 5)
ET7302-AOC-xM	25Gbps, SFP28 AOC cable with xM (x= 5, 7, 10)