

ECS4110 Series L2 Gigabit Ethernet Standalone Switch



Product Overview

E d g e - c o r E

The Edge-Core ECS4110 Series is a family of Layer 2 switches featuring 28 or 52 ports; with 24/48 10/100/1000BASE-T ports, and 4 SFP uplink ports. The switches support enterprise-class Layer 2 switching features including advanced QoS, security, and intuitive management, allowing network administrators to build high-performing robust networks affordably.

Key Features and Benefits Performance and Scalability

The ECS4110 Series includes high-performance Gigabit Ethernet L2 access switches with 56/104 Gbps switching capacity. The switches deliver wire-speed switching performance on all Gigabit ports, taking full advantage of existing high-performance PCs by significantly improving the responsiveness of applications and file transfer times.

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, ensuring a faster recovery from failed links and 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.

The ECS4110 Series 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.

Comprehensive QoS

The ECS4110 Series offers advance QoS for marking, classification, and scheduling to deliver best-in-class performance for data, voice, and video traffic at wire speed. Four egress queues per port enable differentiated management of up to four traffic types across the network.

Traffic is prioritized according to 802.1p, DSCI, IP precedence and TCP/UDP to provide optimal performance for real-time applications such as voice and video.

Weight Round Robin (WRR) and strict priority ensure differential prioritization of packet flows and avoid congestion of ingress and egress queues.

PoE Features

The ECS4110-52P can provide up to 30 Watts of power to attached devices, such as VoIP phones, wireless access points, surveillance cameras, etc, all over existing Cat. 5 cables. The switch can deliver up to 30 Watts on 13 ports, 15.4 Watts on 25 ports, or 7.5 Watts on 48 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.

Enhanced Security

Port Security limits the total number of devices 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 to 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.

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.

Secure Shell (SSHv1.5/v2.0) and Secure Sockets Layer (SSL/HTTPS) encrypt Telnet and web access to the switch, providing secure network management.

Dynamic ARP Inspection (DAI) 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.

Simple Management

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

Green Ethernet

The ECS4110 Series incorporates a range of green Ethernet technologies to help you save energy costs for your network. The switches do not only use the latest Energy Efficient Ethernet standard to make efficient use of the Ethernet ports, they also detect link status and cable length, powering down when a port is not connected and reducing power for shorter cables.

* IPv6 Ready Logo for ECS4110-28P/ECS4110-52P under certification process.

www.edge-core.com

Features

PoductingaCanadaCanadaCanadaCanadaPartR-16 (10/01/000 Ports0.40.40.40.4SP Lank PortsR-16 (10/01/000 Ports0.40.40.40.4Part PortsR-16 (10/01/000 Ports0.100.40.40.4R-16 (10/01/000 Ports0.100.100.40.40.4Part PortsR-16 (10/01/000 Ports0.100.100.100.10Part PortsR-16 (10/01/000 Ports0.100.100.100.10Part PortsR-16 (10/01/000 Ports0.100.100.100.10R-16 (10/01/01/01/01/01/01/010.100.100.100.100.10Part PortsR-16 (10/01/01/01/01/01/010.100.100.100.10Part PortsR-16 (10/01/01/01/01/01/01/010.100.100.100.10Part Port PortsR-16 (10/01/01/01/01/010.100.100.100.10Part Port PortsR-16 (10/01/01/01/010.100.100.100.10Part Port PortsR-16 (10/01/01/01/010.100.100.100.10Part Port PortsR-16 (10/01/01/01/01/010.100.100.100.10Part Port PortsR-16 (10/01/01/01/01/010.100.100.100.10Part Port Port Port Port Port Port Port Po		Product Model	ECS4110-28T	ECS4110-28P	ECS4110-52T	ECS4110-52P
Performance Part Park Park Park Park BPP Upliek Ports Ad Ad Ad Ad Performance Butholing Capacity SG Gops SG Cops SG Cops 104 Cops 77.4 Mpps Preformance Butholing Capacity SG Cops SG Cops SG Cops 77.4 Mpps 77.4 Mpps Pash Memory 32 MB S2 MB 32 MB 32 MB 32 MB 32 MB 32 MB 128 MB		Product Image	-	-		
PerformanceInclNo24No48R4-B Console PortYusYusYusYusYusYusBottching Capacity56 Obps56 Obps56 Obps77.4 Mpps77.4 MppsFowarding Rate41.7 Mpps41.7 Mpps32 MB32 MB32 MBPerformanceFash Marrory32 MB32 MB32 MB32 MBDPAM128 MS128 MS128 MS128 MS128 MSAdd datase Table16 K16 K16 K16 K16 KAuto Erames10 K10 K10 K10 K10 KAuto adgubtion Auto MDI/DIXYesYesYesYesPoetSupport on all Gigabil ports based on IEEE 802.3 atNoYesNoYesPoet based on IEEE 802.3 atNoYesNoYesYesAuto adgubtio after exceeding power budgetNoYesNoYesPoet BudgetNoYesNoYesYesMorti databa after exceeding power budgetNoYesNoYesPoet BudgetNoYesNoYesYesMorti databa after exceeding power budgetNoYesNoYesPoet BudgetNoYesNoYesYesMorti databaYesYesYesYesYesPoet BudgetYesYesYesYesYesPoet BudgetYesYesYesYesYesPoet BudgetYesYes <t< th=""><th rowspan="4">Port</th><th>RJ-45 10/100/1000 Ports</th><th>24</th><th>24</th><th>48</th><th>48</th></t<>	Port	RJ-45 10/100/1000 Ports	24	24	48	48
PerformanceR445 Console PortYesYesYesYesSoliching CapacityMG GlupsMG GlupsMG Glups104 Glups104 GlupsFowarding RaioA11.7 MppsJ2.4 MpJ2.4 MpJ2.4 MpJ2.4 MpFach MemoryJ2.0 MBJ2.2 MBJ2.2 MBJ2.2 MBJ2.2 MpFACA dorses TableI10 KMJ10.6 KJ10.6 KJ10.6 KJ10.6 KAuto-negoliation, Auto-MDI/MDIXYesYesYesYesPoerSupport on all Gligabit ports based on IEEE 802.3 atNoYesYesPoer based on IEEE 802.3 atNoYesNoYesAuto-negoliation, Auto-MDI/MDIXNoYesNoYesPoer based on IEEE 802.3 atNoYesNoYesPoer based on IEEE 802.3 atNoYesNoYesAuto-negoliation Auto-MDI/MDIXNoYesNoYesPoer BadgetNoYesNoYesYesMach Space Niller BrozeNoYesNoYesPoer Badget19'19'19'19'19'Monnol (V x D xH) cmAl 4 x 28 x 4444 x 28 x 4444 x 37 x 44Poer SuppMary Space Niller Glup (Waits)Al 10'YesPoer SuppMary Space Niller Glup (Waits)Al 10'YesYesPoer SuppMary Space Niller Glup (Waits)Al 10'YesYesPoer SuppMary Space Niller Glup (Waits)Al 10'YesYesPoer Supp<		SFP Uplink Ports	4	4	4	4
PerformanceSwitching Capacity606 Gbps606 Gbps104 Gbps104 Gbps104 GbpsForwarding Rac41.7 Mpps41.7 Mpps77.4 Mpps77.4 MppsFash Menory32 MB32 MB32 MB32 MB32 MBFash Menory32 MB128 MB128 MB128 MB128 MBMAC Address Table10 K10 K10 K10 K10 KJundo Frames10 K10 K10 K10 K10 KAuto-regulation, Auto-MDIMDIXYesYesYesYesPostSupport on all Gigabit ports based on IEEE 802.3atNoYesNoYesAuto disable after exceeding power budgetNoYesNoYesPore BudgetNoYesNoYes101 KUPore Budget19 Y19 Y19 Y19 Y19 YImmasion (W X D XH) cm26 kg38 kg314 kg52 KgPower Stupt100 400 VAC, SQO Hz20 Kg31 W40 x 70 C40 x 70 CMax System Fower Consumption (Wattis)31 W40 NO65 cu30 WAux System Fower Consumption (Wattis)10% 10% 10%10% 10% 10% 10% 10% 10% 10% 10% 10% 10%		PoE Ports	No	24	No	48
Switching CablecitySolicity		RJ-45 Console Port	Yes	Yes	Yes	Yes
Pash Memory32 MB32 MB <td rowspan="6">Performance</td> <td>Switching Capacity</td> <td>56 Gbps</td> <td>56 Gbps</td> <td>104 Gbps</td> <td>104 Gbps</td>	Performance	Switching Capacity	56 Gbps	56 Gbps	104 Gbps	104 Gbps
PAM128 MB128 MB128 MB128 MB128 MB128 MBMAC Address Table16 K16 K16 K16 K16 KJunbo Frames10 K10 K10 K10 K10 KAuto-negotiation, Auto-MDI/MDIXYesYesYesYesPerSupport on all Gigabit ports based on IEEE 802.3aNoYesNoYesAuto-depotiation exceeding power budgetNoYesNoYesInter Rower AllocationNoYesNoYesposer BudgetNoYesNoYesposer BudgetNoYesNoYesposer Budget19'19'19'19'poser Budget268 kg358 kg314 kg527 kgposer Stor MarkYesYesYesYesposer Stor Mark268 kg358 kg314 kg527 kgposer Stor MarkStorage Temperature0 - 50°C0 - 50°C0 - 50°Cportaing Temperature0 - 50°C0 - 50°C0 - 50°C0 - 50°Cportaing Temperature0 - 50°C0 - 50°C0 - 50°C0 - 50°Cportaing Temperature (non-condensing)10% to 90%10% to 90%10% to 90%privionmental Regulation compliance: WEEEYesYesYesYesprivionmental Regulation compliance: RoHSYesYesYesYesportaing Temperature (non-condensing)10% to 90%10% to 90%10% to 90%Yesprivionmental Regulation compliance: RoHS <td>Forwarding Rate</td> <td>41.7 Mpps</td> <td>41.7 Mpps</td> <td>77.4 Mpps</td> <td>77.4 Mpps</td>		Forwarding Rate	41.7 Mpps	41.7 Mpps	77.4 Mpps	77.4 Mpps
MAC Address Table16 K16 K16 K16 KMAC Address Table10 K10 K10 K10 KJunbo Frames10 K10 K10 K10 KAuto-negoliation, Auto-MDU/MDIXYesYesYesYesBupport on all Gigabit ports based on IEEE 802.3atNoYesNoYesAuto disable after exceeding power budgetNoYesNoYesDynamic Power AllocationNoYesNoYesPoet BudgetNo390 WNo410 WMechanicatAck Space19 Y19 Y19 YPower Study268 kg3.84 kg3.14 kg5.27 kgPower StudyOx40 VAC, 50/60 HzYesYesYesYesPower StudyOx40 VAC, 50/60 Hz31 W4450 W4450 W5.30 WPower StudyOx40 VAC, 50/60 HzO<50°C		Flash Memory	32 MB	32 MB	32 MB	32 MB
Junibo Frames10 K10 K10 K10 KAuto-negotiation, Auto-MDI/MDIXYesYesYesYesBupport on all Gigabit ports based on IEEE 802.3atNoYesNoYesPoE-based on IEEE 802.3atNoYesNoYesAuto disable after exceeding power budgetNoYesNoYesQuarnic Power AllocationNoYesNoYesPoE Fower BudgetNo390 WNo410 WMechaniceAck Space19"19"19"Might268 kg3.58 kg3.14 kg5.27 kgPower Stupp10.240 VAC, 50/60 HzYesYesYesAck Space19"10%5.27 kgYesPower Stupp10.240 VAC, 50/60 HzYesYesYesAck Space19 Yes10%0.50°C0.50°C0.50°CPower Stupp10.240 VAC, 50/60 Hz10% to 90%10% to 90%10% to 90%Ack Space10%31 W4450 XH4452 XH4452 XHPower Stupp10.240 VAC, 50/60 Hz0.50°C0.50°C0.50°CActing Temperature0.70°C10% to 90%10% to 90%10% to 90%Ack Space10% to 90%10% to 90%10% to 90%10% to 90%Actin Temperature10% to 90%10% to 90%10% to 90%10% to 90%Actin TemperatureYesYesYesYesActin TemperatureYesYesYesYesActin TemperatureYes </td <td>DRAM</td> <td>128 MB</td> <td>128 MB</td> <td>128 MB</td> <td>128 MB</td>		DRAM	128 MB	128 MB	128 MB	128 MB
PoeAuto-negotiation, Auto-MDI/MDIXYesYesYesYesBupport on all Gigabit ports based on IEEE 802.3aNoYesNoYesPoE-based on IEEE 802.3aNoYesNoYesAuto disable after exceeding power budgetNoYesNoYesMach Gigabit ports based on IEEE 802.3aNoYesNoYesAuto disable after exceeding power budgetNoYesNoYesPower BudgetNoYesNoYesYesMach Space19'19'19'19'19'Ibinansion (W x D x H) cm248 kg3.58 kg3.14 kg5.27 kgYesYesYesYesYesYesYesMach System Power Consumption (Watts)31 W4450 W465 W5.30 WFortramentaYesYes10% to 90%10% to 90%10% to 90%FortramentaYes10% to 90%10% to 90%10% to 90%10% to 90%FortramentaYesYesYesYesYesFortramentaYesYesYesYesYesFortramentaYesYesYesYesYesFortramentaYesYesYesYesYesFortramentaYesYesYesYesYesFortramentaYesYesYesYesYesFortramentaYesYesYesYesYesFortramentaYesYesYesYesYe		MAC Address Table	16 K	16 K	16 K	16 K
PoESupport on all Gigabit ports based on IEEE 802.3a1NoYesNoYesPoE+ based on IEEE 802.3a1NoYesNoYesAuto disable after exceeding power budgetNoYesNoYesDynamic Power AllocationNoYesNoYesPoE Power BudgetNo390 WNo410 WMechanicalRack Space19'19'19'19'Jonension (W x D x H) cm44 x 28 x 4.4444 x 28 x 4.4444 x 28 x 4.4444 x 37.9 x 4.4Weight2.68 kg3.58 kg3.14 kg5.27 kgYover Supply100-240 VAC, 50/60 HzYesYesYesYesIou-240 VAC, 50/60 HzYesYes0 - 50'C0 - 50'C0 - 50'CMax System Power Consumption (Watts)31 W450 W65 W530 WEnvironmentalOperating Temperature0 - 50'C0 - 50'C0 - 50'C-40 - 70'CQorating Temperature (non-condensing)10% to 90%10% to 90%10% to 90%10% to 90%10% to 90%Environmental Regulation compliance: WEEEYesYesYesYesYesCer Class AYesYesYesYesYesYesKet Upcupliance: CBYesYesYesYesYesSafety Compliance: CBYesYesYesYesYes		Jumbo Frames	10 K	10 K	10 K	10 K
Support on all Gigabit ports based on IEEE 802.3atNoYesNoYesPOE+ based on IEEE 802.3atNoYesNoYesAuto disable after exceeding power budgetNoYesNoYesDynamic Power AllocationNoYesNoYesPoE Power BudgetNo390 WNoYesImmediationNoYesYesYesPoer Subget19'19'19'19'Immediation (W x D x H) cm44 x 28 x 4.444 x 28 x 4.444 x 28 x 4.444 x 37.9 x 4.4Yeight2.68 kg3.58 kg3.14 kg5.27 kgYeight0.0-240 VAC, 50/60 HzYesYesYesYesYeight0.0-240 VAC, 50/60 Hz31 W450 W65 W530 WYeight0.0-250 C0.750 C0.750 C0.50 C0.50 CYeight0.0-50 YC10% to 90%10% to 90%10% to 90%10% to 90%Yeight10% to 90 M10% to 90 M10% to 90 M10% to 90 M10% to 90 MYeight10% to 90 M10% to 90 M10% to 90 M10% to 90 M10% to 90 MYeight10% to 90 M10% to 90 M10% to 90 M10% to 90 M10% to 90 MYeightYeightYeightYeightYeightYeightYeight10% to 90 M10% to 90 M10% to 90 M10% to 90 M10% to 90 MYeightYeight10% to 90 M10% to 90 M10% to 90 M10% to 90 MYeightYeight		Auto-negotiation, Auto-MDI/MDIX	Yes	Yes	Yes	Yes
Auto disable after exceeding power budgetNoYesNoYesDynamic Power AllocationNoYesNoYesPoE Power BudgetNo390WNo410WMechanicalRack Space19'19'19'19'Imension (W x D x H) cm44 x 28 x 4.444 x 28 x 4.444 x 28 x 4.444 x 37.9 x 4.4Weight2.68 kg3.58 kg3.14 kg5.27 kgNo102-20 VAC, 50/60 HzYesYesYesYesMax System Power Consumption (Watts)3.1 W450 W65 W5.30 WEnvironmental Operating Temperature0~50°C0~50°C0~50°C0~50°CStorage Temperature (non-condensing)10% to 90%10% to 90%10% to 90%10% to 90%Environmental Regulation compliance: WEEEYesYesYesYesEnvironmental Regulation compliance: RMESYesYesYesYesEnvironmental Regulation	PoE	Support on all Gigabit ports based on IEEE 802.3af	No	Yes	No	Yes
Dynamic Power AllocationNoYesNoYesPoE Power BudgetNo330 WNo410 WRack Space19'19'19'19'Dimension (W x D x H) cm44 x 28 x 4.444 x 28 x 4.444 x 28 x 4.444 x 37.9 x 4.4Weight2.68 kg3.58 kg3.14 kg5.27 kgPower Supp100-240 VAC, 50/60 HzYesYesYesYesMax System Power Consumption (Watts)31 W450 W65 W5.30 WEnvironmentalOperating Temperature0~50°C0~50°C0~50°C0~50°COperating Temperature-40~70°C-40~70°C-40~70°C-40~70°COperating Temperature (non-condensing)10% to 90%10% to 90%10% to 90%10% to 90%Environmental Regulation compliance: RMESYesYesYesYesCer Life Cass AYesYesYesYesYesCe Life Compliance: CBYesYesYesYesYes		PoE+ based on IEEE 802.3at	No	Yes	No	Yes
Pec Power BudgetNo390 WNo410 WRack Space19'19'19'19'19'19'Dimension (W x D x H) cm44 x 28 x 4.444 x 28 x 4.444 x 28 x 4.444 x 37.9 x 4.4Weight2.68 kg3.58 kg3.14 kg5.27 kgPower Supp100-240 VAC, 50/60 HzYesYesYesYesMax System Power Consumption (Watts)31 W450 W65 W5.30 WEnvironmentel0.0 r 50°C0.0 r 50°C0.0 r 50°C0.0 r 50°CQoerating Temperature-40 - 70°C-40 - 70°C-40 - 70°C-40 - 70°CQoerating Humidity (non-condensing)10% to 90%10% to 90%10% to 90%10% to 90%Environmental Regulation compliance: WEEEYesYesYesYesFortionmental Regulation compliance: RMSYesYesYesYesFCC Class AYesYesYesYesYesKettifficationYesYesYesYesYesAlety Compliance: CBYesYesYesYesYesKettifficationYesYesYesYesYesKettifficationYesYesYesYesYesKettifficationYesYesYesYesYesKettifficationYesYesYesYesYesKettifficationYesYesYesYesYesKettifficationYesYesYesYesYesKettiffication </td <td>Auto disable after exceeding power budget</td> <td>No</td> <td>Yes</td> <td>No</td> <td>Yes</td>		Auto disable after exceeding power budget	No	Yes	No	Yes
Mechanical Pack SpaceRack Space19'19'19'19'19'19'Dimension (W x D x H) cm44 x 28 x 4.444 x 28 x 4.444 x 28 x 4.444 x 37.9 x 4.4Weight2.68 kg3.58 kg3.14 kg5.27 kgPower Suppi100-240 VAC, 50/60 Hz74074s74s74sMax System Power Consumption (Watts)31 W450 W65 W530 WEnvironmentel0perating Temperature00 ~ 50°C0 ~ 50°C0 ~ 50°C0 ~ 50°CStorage Temperature10% to 90%10% to 90%10% to 90%10% to 90%10% to 90%Furionmental Regulation compliance: WEEEYesYesYesYesFurionmental Regulation compliance: ROHSYesYesYesYesFC Class AYesYesYesYesYesCetClass AYesYesYesYesYesSafety Compliance: CBYesYesYesYesYesSafety Compliance: CBYesYesYesYesYesKSafety Compliance: CBYesYesYesYesSafety Compliance: CBYesYesYesYesYesSafety Compliance: CBYesYesYesYesYesSafety Compliance: CBYesYesYesYesYesSafety Compliance: CBYesYesYesYesYesSafety Compliance: CBYesYesYesYesYesSafety Compl		Dynamic Power Allocation	No	Yes	No	Yes
Hack Space1919'19'19'19'19'19'Dimension (W x D x H) cm44 x 28 x 4.444 x 28 x 4.444 x 28 x 4.444 x 37.9 x 4.4Veight2.68 kg3.58 kg3.14 kg5.27 kgPower Suppi100-240 VAC, 50/60 HzYesYesYesYesMax System Power Consumption (Watts)31 W450 W65 W530 WEnvironmental0 ~ 50°C0 ~ 50°C0 ~ 50°C0 ~ 50°CQperating Temperature-40 ~ 70°C-40 ~ 70°C-40 ~ 70°C-40 ~ 70°CQperating Humidity (non-condensing)10% to 90%10% to 90%10% to 90%10% to 90%Environmental Regulation compliance: WEEEYesYesYesYesFCC Class AYesYesYesYesYesEquip Compliance: CBYesYesYesYesYesYes Query Consumption:		PoE Power Budget	No	390 W	No	410 W
Neight2.68 kg3.58 kg3.14 kg5.27 kgPower Supply100-240 VAC, 50/60 HzYesYesYesYesMax System Power Consumption (Watts)31 W450 W65 W530 WEnvironmental0perating Temperature0~50°C0~50°C0~50°C0~50°CStorage Temperature-40~70°C-40~70°C-40~70°C-40~70°COperating Humidity (non-condensing)10% to 90%10% to 90%10% to 90%10% to 90%Storage Temperature (non-condensing)10% to 90%10% to 90%10% to 90%10% to 90%Environmental Regulation compliance: WEEEYesYesYesYesCertificationCC Class AYesYesYesYesCet Class AYesYesYesYesYesStafty Compliance: CBYesYesYesYesYesStafty Compliance: CBYesYesYesYesYes	Mechanical	Rack Space	19"	19"	19"	19"
Power Supply100-240 VAC, 50/60 HzYesYesYesYesYesMax System Power Consumption (Watts)31 W450 W65 W530 WEnvironmentalOperating Temperature0~50°C0~50°C0~50°C0~50°CStorage Temperature-40~70°C-40~70°C-40~70°C-40~70°C-40~70°COperating Humidity (non-condensing)10% to 90%10% to 90%10% to 90%10% to 90%10% to 90%Storage Temperature (non-condensing)10% to 90%10% to 90%10% to 90%10% to 90%10% to 90%Environmental Regulation compliance: WEEEYesYesYesYesEnvironmental Regulation compliance: RoHSYesYesYesYesCertificationCEYesYesYesYesStafuy Compliance: CBYesYesYesYesYes		Dimension (W \times D \times H) cm	44 x 28 x 4.4	44 x 28 x 4.4	44 x 28 x 4.4	44 x 37.9 x 4.4
Not 240 (Not, 5000 N2NoteNoteNoteMax System Power Consumption (Watts)31 W450 W65 W530 WEnvironmental Operating Temperature0 ~ 50°C0 ~ 50°C0 ~ 50°C0 ~ 50°CStorage Temperature-40 ~ 70°C-40 ~ 70°C-40 ~ 70°C-40 ~ 70°COperating Humidity (non-condensing)10% to 90%10% to 90%10% to 90%10% to 90%Storage Temperature (non-condensing)10% to 90%10% to 90%10% to 90%10% to 90%Environmental Regulation compliance: WEEEYesYesYesYesFCC Class AYesYesYesYesYesCEYesYesYesYesYesYesStafety Compliance: CBYesYesYesYesYes		Weight	2.68 kg	3.58 kg	3.14 kg	5.27 kg
Environmental Poperating TemperatureOne Add and the actionOne Add and the actionOne Add and the actionStorage Temperature-400 - 70°C-400 - 70°C-400 - 70°C-400 - 70°COperating Humidity (non-condensing)10% to 90%10% to 90%10% to 90%10% to 90%Storage Temperature (non-condensing)10% to 90%10% to 90%10% to 90%10% to 90%Environmental Regulation compliance: WEEEYesYesYesYesFCC Class AYesYesYesYesYesCEYesYesYesYesYesStaty Compliance: CBYesYesYesYesYesYesYesYesYesYesYesYesStaty Compliance: CBYes	Power Supply	100-240 VAC, 50/60 Hz	Yes	Yes	Yes	Yes
CertificationOperating TemperatureO ~ 50°CO ~ 50		Max System Power Consumption (Watts)	31 W	450 W	65 W	530 W
Production Production <td>Environmental</td> <td>Operating Temperature</td> <td>0 ~ 50°C</td> <td>0 ~ 50°C</td> <td>0 ~ 50°C</td> <td>0 ~ 50°C</td>	Environmental	Operating Temperature	0 ~ 50°C	0 ~ 50°C	0 ~ 50°C	0 ~ 50°C
Storage Temperature (non-condensing) 10% to 90% 10% to 90% 10% to 90% Environmental Regulation compliance: WEEE Yes Yes Yes Environmental Regulation compliance: RoHS Yes Yes Yes FCC Class A Yes Yes Yes Yes CE Safety Compliance: CB Yes Yes Yes Yes		Storage Temperature	-40 ~ 70°C	-40 ~ 70°C	-40 ~ 70°C	-40 ~ 70°C
Environmental Regulation compliance: WEEE Yes Yes Yes Environmental Regulation compliance: RoHS Yes Yes Yes FCC Class A Yes Yes Yes CE Yes Yes Yes Safety Compliance: CB Yes Yes Yes		Operating Humidity (non-condensing)	10% to 90%	10% to 90%	10% to 90%	10% to 90%
Certification Environmental Regulation compliance: RoHS Yes Yes Yes Yes FCC Class A Yes Yes Yes Yes Yes Yes CE Safety Compliance: CB Yes Yes Yes Yes Yes		Storage Temperature (non-condensing)	10% to 90%	10% to 90%	10% to 90%	10% to 90%
Certification FCC Class A Yes Yes Yes Yes CE Yes Yes Yes Yes Yes Safety Compliance: CB Yes Yes Yes Yes		Environmental Regulation compliance: WEEE	Yes	Yes	Yes	Yes
PCC Class A Pes Pes Pes CE Yes Yes Yes Safety Compliance: CB Yes Yes Yes		Environmental Regulation compliance: RoHS	Yes	Yes	Yes	Yes
Safety Compliance: CB Yes Yes Yes	Certification	FCC Class A	Yes	Yes	Yes	Yes
		CE	Yes	Yes	Yes	Yes
Safety Compliance: UL Yes Yes Yes		Safety Compliance: CB	Yes	Yes	Yes	Yes
		Safety Compliance: UL	Yes	Yes	Yes	Yes

TEL: +886-3-5638888 FAX: +886-3-6686111 No.1, Creation Rd. III, Hsinchu Science Park, Taiwan 30077 sales@edge-core.com www.edge-core.com TEL: +1 (949)-336-6801 20 Mason Irvine, CA 92618

Features

L2 Features

Auto-negotiation for port speed and duplex mode Flow Control:

- IEEE 802.3x for full-duplex mode
- Back-pressure for half-duplex mode

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)
- BPDU Guard
- BPDU filtering
- Root Guard
- Spanning Tree Fast Forwarding
- Loopback Detection
- Auto EdgePort

BPDU Forward

Storm Control (broadcast/multicast/unknown unicast) VLANs:

- IEEE 802.1Q tagged-based VLANs
- Port-based VLANs
- MAC-based VLANs
- IP subnet-based VLANS
- Private VLANs (community)
- Traffic segmentation (port isolated)
- GVRP/GARP
- IEEE 802.1v protocol-based VLANs
- IPv6 VLANs
- VLAN trunking
- Link Aggregation:
- Static trunk
- IEEE 802.3ad Link Aggregation Control Protocol
- Trunk groups: 16
- Maximum number of members per group: 8
- IGMP Snooping:
 - IGMP v1/v2/v3 Snooping
- IGMP Filtering
- IGMP Throttling
- IGMP Immediate Leave
- IGMP v1/v2 Querier
- IGMP SNP Proxy (V1/V2/V3)
- IGMP Authentication

MVR (Multicast VLAN Registration) Supports Q-in-Q Supports select Q-in-Q G.8032v2 (ERPS) Non-STP loopback detection UDLD

Digital Diagnostic Monitoring (DDM) L2 Protocol Tunneling (CDP,PVST,STP,LLDP) Packet filtering of L2 control CDP/PVST

QoS Features

Priority Queues: 4 hardware queues per port 802.1p-based COS IP DSCP-based COS TCP/UDP Port-based COS PHB (Per Hop Behavior – internal priority) Port-based default priority WRR priority scheduling Strict piority scheduling Hybrid (WRR +Strict) Rate limiting (ingress and egress, per port base) DiffServ

Security Features

Port security IEEE 802.1X

- Port-based Authentication
- MAC-based Authentication
- Guest VLAN

 EAPOL frames pass-through MAC authentication
Web authentication
802.1X supplicant support
Dynamic VLAN assignment
Dynamic QoS assignment
Intrusion Lock (link detection)
MAC filter
Access Control List
Dynamic ARP Inspection
AAA

- RADIUS authentication
- RADIUS accounting
- TACACS+ authentication
- TACACS+ authorization
- TACACS+ accounting
- HTTPS and SSL

SSH (v1.5/v2.0)

IPv6 Features

IPv4/IPv6 dual protocol stack IPv6 address type Unicast Multicast ICMPv6 ICMPv6 Redirect (Host) IPv6 Path MTU Discovery IPv6 Neighbor Discovery Router discovery Duplicate address Parameter discovery Address resolution Unreachable neighbor detection Stateless autoconfiguration Manual configuration SNMP over IPv6 HTTP over IPv6 SSH over IPv6 IPv6 Telnet support IPv6 DNS resolver IPv6 Syslog support IPv6 SNTP support IPv6 TFTP support Remote IPv6 Ping Ping over IPv6 Traceroute over IPv6 DHCPv6 Client Snooping MVR6 IPv6 Source Guard RA Guard MLD Snooping v1/v2 IPv6 ND Snooping IPv6 ACL IPv6 Diffserv

*Future Release

Features Management Switch Management: CLI via console port or Telnet Web management ■ SNMP v1, v2c, v3 Telnet Client Server Software download/upgrade ■ TFTP ■ FTP ■ HTTP **Dual Images** Configuration download/upload ■ TFTP ■ HTTP ■ FTP Auto Upgrade ■ TFTP FTP SNMP ■ v1 ■ v2c v3 RMON1 (1,2,3,9 group) BOOTP DHCP Client Relay Snooping Snooping option 82 Dynamic provision (via Option 66,67) IP source guard Port mirroring VLAN mirror MAC-based mirror ACL mirror Remote port mirror (RSPAN) Even/error logging Syslog Remote log SMTP (E-mail notification) OAM IEEE 802.3ah ■ IEEE 802.1ag (CFM) ■ Y.1731 DNS Client Proxy Remote Ping SNTPv4 NTP **IP** Clustering LLDP (802.1ab) Link Layer Discovery Protocol (LLDP) LLDP-MED (VoIP related) IEEE 802.3at

Management-continued

MAC flush Dynamic ARP Inspection (DAI) Auto Traffic Control (ATC) (software rate limit) PPPoE intermediate agent Delay reload Cable diagnostic/TDR Green Ethernet Traceroute Denial of Service Protection (DoS) Support MIB Support 24 Static Route Entries with 8 IP Interface

IEEE Standards

IEEE 802.1p priority tags IEEE 802.1X port authentication IEEE 802.3x Ethernet frame start and stop requests and timers used for flow control on full-duplex links IEEE 802.3u CSMA/CD access method and physical layer specifications for 100BASE-TX Fast Ethernet IEEE 802.3z CSMA/CD access method and physical layer specifications for 1000BASE Gigabit Ethernet IEEE 802.1q Virtual LAN IEEE 802.1d Spanning Tree Protocol IEEE 802.3ad Link Aggregation Control Protocol IEEE 802.1s Rapid Spanning Tree Protocol IEEE 802.1w Multiple Spanning Tree Protocol

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.

© Copyright 2017 Edgecore Networks Corporation. The information contained herein is subject to change without notice. This document is for informational purposes only and does not set forth any warranty, expressed or implied, concerning any equipment, equipment feature, or service offered by Edgecore Networks Corporation. Edgecore Networks Corporation shall not be liable for technical or editorial errors or omissions contained herein.

Ordering Information

Optional Accessories	Product Description
ET4201-SX	1Gbps, Small Form Factor Pluggable (Distance: 500 m; Wavelength: 850 nm)
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)
ET4201-ZX	1Gbps, Small Form Factor Pluggable (Distance: 80 km; Wavelength: 1550 nm)
ET4202-SX	1Gbps, Small Form Factor Pluggable (Distance: 500 m; Wavelength: 850 nm, DDM)
ET4202-LX	1Gbps, Small Form Factor Pluggable (Distance: 10 km; Wavelength: 1310 nm, DDM)
ECView Pro	SNMP Network Management Software