# GIGABIT ETHERNET ACCESS SWITCH WITH 1G OR 10G UPLINK OPTIONS

FOR INTERNET SERVICE PROVIDERS (ISPs),
MULTIPLE SYSTEM OPERATORS (MSOs)
AND SMB/ENTERPRISE NETWORKS



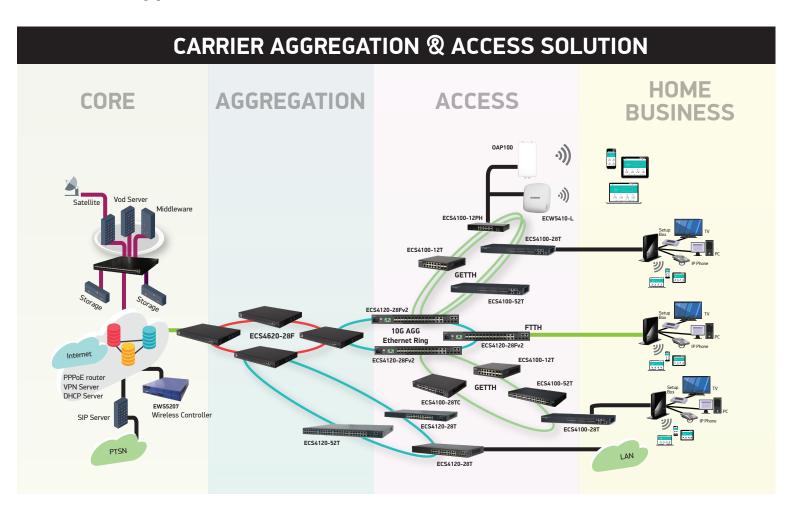
#### **Overview**

The Edgecore ECS4100-28T/52T switch is a Gigabit Ethernet access switch with four 1G uplink ports. These ECS4100 series switch is ideal for Internet Service Providers (ISPs) and Multiple System Operators (MSOs) to provide home users triple-play services with up to a Gigabit of bandwidth while ECS4120 series offer the options of 4 x 10G uplink bandwidth. It is also an ideal Gigabit access switch for SMB, enterprise, and campus networks. The ECS4100 series switch is packed with features that bring high availability, comprehensive security, robust multicast control, and advance QoS to the network edge, while maintaining simple management. The switch also supports the most advanced IPv6 management, IPv6 security, and IPv6 multicast control in accordance with the growth of IPv6 deployment. ISPs can expand their services from home to business users by providing a more reliable and resilient network (ITU-T G.8032 ERPS), L2 VPNs, and advanced OAM (Operations, Administration, and Maintenance) functions to ensure service-level agreements.

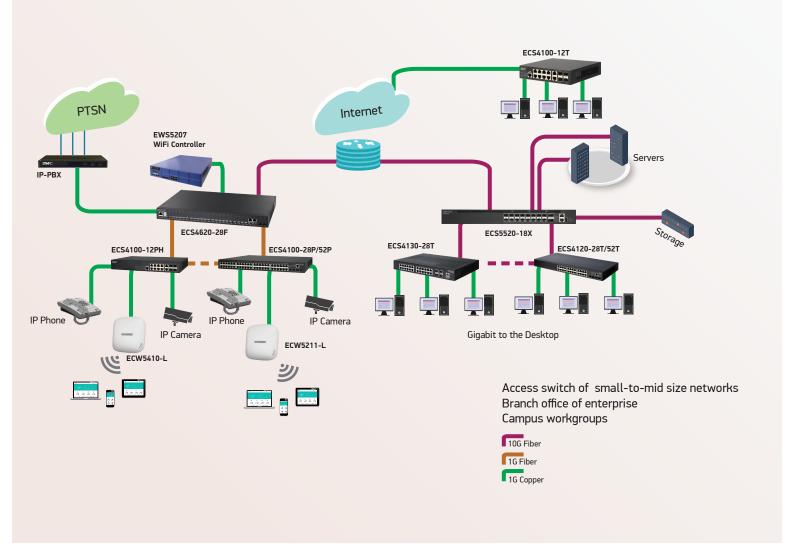
### **Features and Benefit**

- ◆ Enhance robustness of multicast control to provide high quality IP-TV service via IGMP snooping, IGMP Immediate Leave, Leave Proxy, Multicast VLAN Registration (MVR)
- ♦ Ensure fully security of the services provider's network against attack, offering port security, IEEE802.1X port-based or MAC-based access control, DHCP Snooping, IP Source Guard, Access Control List (ACL), Guest VLAN, Dynamic ARP Inspection (DAI), and SSHv2 for secure Telnet and SSL/HTTPS encrypt Web access.
- ◆ Ease the management and troubleshooting with superior management, including industry-standard CLI, web interface, and SNMPv1, 2c, 3 and 4-group RMON.
- ◆ Differentiate network traffic and service with the advanced QoS features, such as Priority Queues, Traffic classification, Traffic scheduling, Rate Limiting
- ◆ Service providers can expand their business from home users to business users by providing more reliable and resiliency network (ITU-T G.8032 ERPS), Connectivity Fault Management (802.1ag, Y.1731) and ensuring SLA

## **Network Application**



## **GE WITH GE/10G UPLINK ACCESS SWITCH APPLICATION**





## ECS4100 and ECS4120 Series Feature Matrix Table

## High Performance Cost-effective.

Risked Profit   See   Social Profit   See   Se	Product Model	ECS4100-12T	ECS4100-12PH	ECS4100-28T	ECS4100-28TC	ECS4100-28P	ECS4100-52T	ECS4100-52P			
Risk   1000/1000 BASE 1 Provis   8   8   24   24   24   48   48   48		LC34100 1L1	EC34100 1E/ 11	203-1200 201	2034200 2010	203-100 201	203-100 321	203-1200 321			
Prof.   Prof		8	8	2/	2/1	24	ΔQ	ΔQ			
100/1009-855X-XPP PORTS						-		<del>                                     </del>			
Combo Signate (144-65/SFF) Ports					-						
SPF 10   10   0   0   0   0   0   0   0   0					-						
Security Features	_ , , ,										
### PAS Console Port						_		_			
No											
Prover to the Prince   Prover Ethernet						-		1			
## REPORT NOT STATE AND STATE OF THE BOOK NO NO YES NO PYES  ## PROVISED CONTRIBUTION  ## PROVIS		No	Yes	No	No	No	No	No			
Power Budget							I				
Physical Configuration											
Flash Memory   32 M8		N/A	180W	N/A	N/A	190W	N/A	370W			
Packet Buffer   1.5MB   1.5MB											
Familes											
Operating   Temperature   Operator   Oper	Packet Buffer	1.5MB	1.5MB	1.5MB	1.5MB	1.5MB	1.5MB	1.5MB			
Performance	FAN/FANLESS	Fanless	Fan,48 dB (A)	Fanless	Fanless	Fan,53 dB (A)	Fanless	Fan,51.1 dB (A)			
Switching Capability	Operating Temperature	0°c to 50°c	0°c to 50°c	0°c to 50°c	0°c to 50°c	0°c to 50°c	0°c to 45°c	0°c to 50°c			
17.85 Mopps	Performance										
17.85 Mopps	Switching Capability	24 Gbps	24 Gbps	56 Gbps	56 Gbps	56 Gbps	104 Gbps	104 Gbps			
Management and Maintenance  Management Interface RJAS Console Port, IPv6 Management, Telnet/SSHv2, HTTP/HTTPs, SNMPv1/v2c/v3, RMON (groups 1, 2, 3, 9)  Interface RJAS Console Port, IPv6 Management, Telnet/SSHv2, HTTP/HTTPs, SNMPv1/v2c/v3, RMON (groups 1, 2, 3, 9)  Interface RJAS RJAS RJAS RJAS RJAS RJAS RJAS RJAS	- ' '			·			·				
Management Interface		17.85 Mpps	17.85 IVIPPS	41.6 lvipps	41.6 lvipps	41.6 lvipps	77.4 IVIPPS	77.4 IVIPPS			
Firmware Configuration  Dual Images, Zero Touch Provision, Upload/Download: FTP, FTP, HTTP  OAM  IEEE 802.3ah OAM, IEEE 802.1ag CFM, 1731  Monitoring  Stecking Feature  Layer 24 Feature  19 Routing  19 Nothing	Management and Maintenance										
	Management Interface	RJ45 Con	sole Port, IPv6 M	anagement, Telne	t/SSHv2, HTTP/HTTP	s, SNMPv1/v2c/v3	RMON (groups	1, 2, 3, 9)			
Monitoring   Port Mirror, RSPAN, sFlow   Stacking FeAture   Software stacking: IP Clustering   Layer 2+ Feature   IP val/IP v6 Static Route   RIP v1/V2   VAN	Firmware Configuration		Dual Im	nages, Zero Touch	Provision, Upload/D	ownload: FTP, TFTF	, HTTP				
	OAM			IEEE 802.3ah	OAM, IEEE 802.1ag (	CFM, Y.1731					
	Monitoring			Port	Mirror, RSPAN, sF	low					
PRouting	Stacking Feature			Softw	are stacking: IP Clust	ering					
P Routing											
VILAN  AK VILANS, VILAN Trunking, Port-Base VILAN, MAC-Base VILAN, IP Subnet VILAN, VILAN Translation  GVRP, IEEE802.1Q, Q-in-Q, Selective Q-in-Q  OHCP Server  Support  Ring Protection  (*) STP (IEEE802.1D) RSTP (IEEE802.1W), MSTP (IEEE802.1S), ERPSv1/v2 (ITU-T G.8032), UDLD, Spanning-Tree, Loopback Detection and Non-Spanning-Tree Loopback Dection  Uink Aggregation  Static Trunk, IEEE802.3ad LACP, Traffic Load balance  Layer 2 Multicast Control  IGMP Snooping v1/v2/v3, IGMP Querier v1/v2, IGMP Filtering and Throttling, IGMP Immediate Leave, IGMP Snooping Leave Proxy  MVR, MVR Proxy, MLD v1/v2 Snooping  Security Features  IEEE 802.1x  Web Authentication, Port-Base, Guest VLAN, Mac-Base VLAN Assignment, QoS Assignment  LAN Protection  IPv4/IPv6 DHCP Snooping, IPv4/IPv6 Source Guard  AAA  Radius, Tacas+  Switch Protection  Ipv4/IPv6 DHCP Snooping, IPv4/IPv6 Source Guard  AAA  Radius, Tacas+  Switch Protection  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP, SP, WRR, SP+WRR Queue Scheduling Algorithms  Dimensions (W x D x H) cm  18x 16x 4x 3x x 4 4x 2x x 4 4x 2x x 4 4 4x 2x x 4 4 4x 3x x 4 4 4x 3x x 4 4 4x 2x x 4 4 4x 3x x 4 4 4x 3x x 4 4 4x 3x x 4 4 4x 2x x 4 4 4x 3x x 4 4 4x				ll l	Pv4/IPv6 Static Route	<u> </u>					
VEAN  AK VLANS, VLAN Trunking, Port-Base VLAN, MAC-Base VLAN, IP Subnet VLAN, VLAN Translation  GVRP, IEEE802.1Q, Q-in-Q, Selective Q-in-Q  BATTER SUPPORT  (*) STP (IEEE802.1D) RSTP (IEEE802.1W), MSTP (IEEE802.1S), ERPSv1/v2 (ITU-T G.8032), UDLD, Spanning-Tree, Loopback Detection and Non-Spanning-Tree Loopback Decton  Link Aggregation  Link Aggregation  GMP Snooping v1/v2/v3, IGMP Querier v1/v2, IGMP Filtering and Throttling, IGMP Immediate Leave, IGMP Snooping Leave Proxy  MVR, MVR Proxy, MLD v1/v2 Snooping  Security Features  IEEE 802.1x Web Authentication, Port-Base, Guest VLAN, Mac-Base VLAN Assignment, QoS Assignment  Port Security  Static /Dynamic MAC-Authentication Limit on the number of learned MAC Address, MAC Address Filter  Access Control List Leave Static /Dynamic MAC-Authentication Limit on the number of learned MAC Address, MAC Address Filter  ARAA Radius, Tacas:  Switch Protection DoS Protection, CPU Protection  BPDU/ Root Guard, BPDU Filter  Link Protection Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP, SP, WRR, SP+WRR Queue Scheduling Algorithms  Dimensions (Wx Dx H) cm 18x16.4x 3.75 28 x 22 x 4. 44 x 22 x 4.4 44 x 33 x 4.4 3 3 x 23 x 4.4 44 x 22 x 4.4 44 x 33 x 4.4 Power Supply Unit	IP Routing										
AK VLANS, VLAN Trunking, Port-Base VLAN, MAC-Base VLAN, IP Subnet VLAN, VLAN Translation    GVRP, IEEE802.1Q, Q-in-Q, Selective Q-in-Q	VIAN				1111 11/12						
DHCP Server    Support	VEAN										
DHCP Server    Support   S		4K	VLANs, VLAN Tru	inking, Port-Base V	LAN, MAC-Base VLA	N,IP Subnet VLAN	I, VLAN Translati	on			
DHCP Server    Support   S											
Support				GVRP, IEEE8	302.1Q, Q-in-Q, Sele	ective Q-in-Q					
Ring Protection  (*) STP (IEEE802.1D) RSTP (IEEE802.1W), MSTP (IEEE802.1S), ERPSv1/v2 (ITU-T G.8032), UDLD, Spanning-Tree, Loopback Detection and Non-Spanning-Tree Loopback Dection  Link Aggregation  Static Trunk, IEEE802.3ad LACP, Traffic Load balance  Layer 2 Multicast Control  IGMP Snooping v1/v2/v3, IGMP Querier v1/v2, IGMP Filtering and Throttling, IGMP Immediate Leave, IGMP Snooping Leave Proxy  MVR, MVR Proxy, MLD v1/v2 Snooping  Security Features  IEEE 802.1x  Web Authentication, Port-Base, Guest VLAN, Mac-Base VLAN Assignment, QoS Assignment  Port Security  Static /Dynamic MAC-Authentication Limit on the number of learned MAC Address, MAC Address Filter  Access Control List  LAN Protection  Prov4/IPv6 DHCP Snooping, IPv4/IPv6 Source Guard  AAA  Radius, Tacas+  Switch Protection  BPDU/ Root Guard, BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP, SP, WRR, SP+WRR Queue Scheduling Algorithms  Dimensions (W x D x H) cm  18x 16.4x 3.75  28 x 22 x 4.4  44 x 22 x 4.4  44 x 23 x 4.4  33 x 23 x 4.4  44 x 22 x 4.4  44 x 33 x 4.4  44 x 23 x 4.4  44 x 33 x 4.4  44 x 22 x 4.4  44 x 33 x 4.4  44 x 22 x 4.4  44 x 33 x 4.4  44 x 33 x 4.4  44 x 22 x 4.4  44 x 33 x	DHCP Server										
Comparison   Com					Support						
Comparison   Com	Ring Protection										
Spanning-Tree, Loopback Detection and Non-Spanning-Tree Loopback Dection	9										
Spanning-Tree, Loopback Detection and Non-Spanning-Tree Loopback Dection			(*) STP (IFFF802 11	O) RSTP (IFFF802 1	W) MSTP (IFFF802 <sup>-</sup>	1S) FRPSv1/v2 (ITI	I-T G 8032) LIDI D				
Link Aggregation  Static Trunk, IEEE802.3ad LACP, Traffic Load balance  Layer 2 Multicast Control  IGMP Snooping v1/v2/v3, IGMP Querier v1/v2, IGMP Filtering and Throttling, IGMP Immediate Leave, IGMP Snooping Leave Proxy  MVR, MVR Proxy, MLD v1/v2 Snooping  Security Features  IEEE 802.1x Web Authentication, Port-Base, Guest VLAN, Mac-Base VLAN Assignment, QoS Assignment  Port Security Static / Dynamic MAC-Authentication Limit on the number of learned MAC Address, MAC Address Filter  Access Control List L2 MAC Address ACL, L3IPv4 and IPv6 ACL, L4 UDP/TCP port  LAN Protection   IPv4/IPv6 DHCP Snooping, IPv4/IPv6 Source Guard  AAA Radius, Tacaes+  Switch Protection   DoS Protection, CPU Protection  BPDU/ Root Guard, BPDU Filter   BPDU Guard, Root Guard, and BPDU Filter  QoS Features   Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP, SP, WRR, SP+WRR Queue Scheduling Algorithms  Dimensions (W x D x H) cm   18 x 16.4 x 3.75   28 x 22 x 4.4   44 x 22 x 4.4   44 x 33 x 4.4   33 x 23 x 4.4   44 x 22 x 4.4   44 x 33 x											
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IGMP Snooping v1/v2/v3, IGMP Querier v1/v2, IGMP Filtering and Throttling, IGMP Immediate Leave, IGMP Snooping Leave Proxy  MVR, MVR Proxy, MLD v1/v2 Snooping  Security Features  IEEE 802.1x Web Authentication, Port-Base, Guest VLAN, Mac-Base VLAN Assignment, QoS Assignment  Port Security Static / Dynamic MAC-Authentication Limit on the number of learned MAC Address, MAC Address Filter  Access Control List L2 MAC Address ACL, L3IPv4 and IPv6 ACL, L4 UDP/TCP port  LAN Protection IPv4/IPv6 DHCP Snooping, IPv4/IPv6 Source Guard  AAA Radius, Tacacs+  Switch Protection  BPDU/ Root Guard, BPDU Filter BPDU Guard, Root Guard, and BPDU Filter  QoS Features Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP, SP, WRR, SP+WRR Queue Scheduling Algorithms  Dimensions (W x D x H) cm	Laver 2 Multicast Control										
Security Features	Layer 2 Muricast Control										
Security Features  IEEE 802.1x											
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Security Features    IEEE 802.1x		MVR MVR Proxy MID v1/v2 Spooning									
Neb Authentication, Port-Base, Guest VLAN, Mac-Base VLAN Assignment, QoS Assignment		MINN, ININT FLOXY, INILO VILY VZ SHOOPHING									
Port Security  Static / Dynamic MAC-Authentication Limit on the number of learned MAC Address, MAC Address Filter  Access Control List  L2 MAC Address ACL, L3 IPv4 and IPv6 ACL, L4 UDP/TCP port  LAN Protection  IPv4/IPv6 DHCP Snooping, IPv4/IPv6 Source Guard  AAA  Radius, Tacacs+  Switch Protection  BPDU/ Root Guard, BPDU Filter  Dos Protection, CPU Protection  BPDU Guard, Root Guard, and BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, Cos 802.1P, DSCP, Re-marking of th 802.1p and DSCP, SP, WRR, SP+WRR Queue Scheduling Algorithms  Dimensions (W x D x H) cm  18 x 16.4 x 3.75  28 x 22 x 4.4  44 x 22 x 4.4  44 x 23 x 4.4  33 x 23 x 4.4  44 x 22 x 4.4  44 x 33 x 4.4	Security Features										
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Access Control List  L2 MAC Address ACL, L3 IPv4 and IPv6 ACL, L4 UDP/TCP port  LAN Protection  AAA  Radius, Tacacs+  Switch Protection  BPDU/ Root Guard, BPDU Filter  Dos Protection, CPU Protection  BPDU Guard, Root Guard, and BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, Cos 802.1P, DSCP, Re-marking of th 802.1p and DSCP, SP, WRR, SP+WRR Queue Scheduling Algorithms  Dimensions (W x D x H) cm  18 x 16.4 x 3.75 28 x 22 x 4.4 44 x 22 x 4.4 44 x 33 x 4.4 33 x 23 x 4.4 44 x 22 x 4.4 44 x 33 x 4.4 Power Supply Unit	1222 332.23	vveo Authentication, Fort-base, Quest VLAIV, Midt-base VLAIV Assignment, Qus Assignment									
Access Control List  L2 MAC Address ACL, L3 IPv4 and IPv6 ACL, L4 UDP/TCP port  LAN Protection  AAA  Radius, Tacacs+  Switch Protection  BPDU/ Root Guard, BPDU Filter  Dos Protection, CPU Protection  BPDU Guard, Root Guard, and BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, Cos 802.1P, DSCP, Re-marking of th 802.1p and DSCP, SP, WRR, SP+WRR Queue Scheduling Algorithms  Dimensions (W x D x H) cm  18 x 16.4 x 3.75 28 x 22 x 4.4 44 x 22 x 4.4 44 x 33 x 4.4 33 x 23 x 4.4 44 x 22 x 4.4 44 x 33 x 4.4 Power Supply Unit		·	/5 :			1		F:1.			
LAN Protection  AAA  Radius, Tacacs+  Switch Protection  BPDU/ Root Guard, BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP, SP, WRR, SP+WRR Queue Scheduling Algorithms  Dimensions (W x D x H) cm  18 x 16.4 x 3.75  28 x 22 x 4.4  44 x 22 x 4.4  44 x 22 x 4.4  44 x 33 x 4.4  83 x 23 x 4.4  44 x 22 x 4.4  44 x 33 x 4.4  84 x 33 x 4.4	Port Security	Statio	:/Dynamic MAC-A	uthentication Limit	on the number of le	earned MAC Addres	ss, MAC Address	Filter			
LAN Protection  AAA  Radius, Tacacs+  Switch Protection  BPDU/ Root Guard, BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP, SP, WRR, SP+WRR Queue Scheduling Algorithms  Dimensions (W x D x H) cm  18 x 16.4 x 3.75  28 x 22 x 4.4  44 x 22 x 4.4  44 x 22 x 4.4  44 x 33 x 4.4  83 x 23 x 4.4  44 x 22 x 4.4  44 x 33 x 4.4  84 x 33 x 4.4											
AAA Radius, Tacacs+  Switch Protection  BPDU/ Root Guard, BPDU Filter  Cos Features  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, Cos 802.1P, DSCP, Re-marking of th 802.1p and DSCP, SP, WRR, SP+WRR Queue Scheduling Algorithms  Dimensions (W x D x H) cm  18 x 16.4 x 3.75  28 x 22 x 4.4  44 x 22 x 4.4  44 x 33 x 4.4  Power Supply Unit	Access Control List	L2 MAC Address ACL, L3IPv4 and IPv6 ACL, L4 UDP/TCP port									
AAA Radius, Tacacs+  Switch Protection  BPDU/ Root Guard, BPDU Filter  Cos Features  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, Cos 802.1P, DSCP, Re-marking of th 802.1p and DSCP, SP, WRR, SP+WRR Queue Scheduling Algorithms  Dimensions (W x D x H) cm  18 x 16.4 x 3.75  28 x 22 x 4.4  44 x 22 x 4.4  44 x 33 x 4.4  Power Supply Unit	LAN Protection			IPv4/IPv6 DHCP	Snooping, IPv4/IPv	6 Source Guard					
Switch Protection  BPDU/ Root Guard, BPDU Filter  BPDU Guard, Root Guard, and BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP, SP, WRR, SP+WRR Queue Scheduling Algorithms  Dimensions (W x D x H) cm  18 x 16.4 x 3.75 28 x 22 x 4.4 44 x 22 x 4.4 44 x 33 x 4.4 33 x 23 x 4.4 44 x 22 x 4.4 44 x 33 x 4.4 Power Supply Unit				, 10 2.101							
BPDU/ Root Guard, BPDU Filter    Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP, SP, WRR, SP+WRR Queue Scheduling Algorithms    Dimensions (W x D x H) cm	AAA				Radius, Tacacs+						
BPDU/ Root Guard, BPDU Filter    Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP, SP, WRR, SP+WRR Queue Scheduling Algorithms    Dimensions (W x D x H) cm	Switch Protection			DoS P	rotection, CPU Prote	ction					
QoS Features  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP, SP, WRR, SP+WRR Queue Scheduling Algorithms  Dimensions (W x D x H) cm	RPDII/ Root Guard RPDII Filtor				-						
QoS Features         Re-marking of th 802.1p and DSCP, SP, WRR, SP+WRR Queue Scheduling Algorithms           Dimensions (W x D x H) cm         18 x 16.4 x 3.75         28 x 22 x 4.4         44 x 22 x 4.4         44 x 33 x 4.4         33 x 23 x 4.4         44 x 22 x 4.4         44 x 33 x 4.4           Power Supply Unit	Di 20/ Noot Guara, Br DO Filler			Pr DO Gual	a, noot Guara, and B	. Do i illei					
QoS Features         Re-marking of th 802.1p and DSCP, SP, WRR, SP+WRR Queue Scheduling Algorithms           Dimensions (W x D x H) cm         18 x 16.4 x 3.75         28 x 22 x 4.4         44 x 22 x 4.4         44 x 33 x 4.4         33 x 23 x 4.4         44 x 22 x 4.4         44 x 33 x 4.4           Power Supply Unit		Input and Out	ust Data Limitin	or Dort Troffic Cl-	ssification Differen	nd Dort Daged To-	ic Policina Coc C	03.10 DCCD			
Dimensions (W x D x H) cm 18 x 16.4 x 3.75 28 x 22 x 4.4 44 x 22 x 4.4 44 x 33 x 4.4 33 x 23 x 4.4 44 x 22 x 4.4 44 x 33 x 4.4 Power Supply Unit	OoS Features	Input and Outp	• .				-	02.1P, DSCP,			
Power Supply Unit			Re-marking	of th 802.1p and DS	CP, SP, WRR, SP+WR	к Queue Schedulir	ig Algorithms				
Power Supply Unit											
	Dimensions (W x D x H) cm	18 x 16.4 x 3.75	28 x 22 x 4.4	44 x 22 x 4.4	44 x 33 x 4.4	33 x 23 x 4.4	44 x 22 x 4.4	44 x 33 x 4.4			
100 2707 ACT 30	100-240V AC PSU	•	•	•	•	•	•	•			
Support ecCLOUD Yes Yes Yes Yes Yes Yes Yes Yes											

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Product   Prod	Draduct Madel	ECC4120 20T	ECC4120 20T	ECC4120 295v2	EC\$4120, 295v2, I	ECS4120-52T					
Security   Part   Par	Product Model  Fixed Port	ECS4130-28T	ECS4120-28T	ECS4120-28Fv2	ECS4120-28Fv2-I	LC34120-521					
100,0000 BASEX XFF PORTS	RJ-45 10/100/1000 BASE-T Ports	24	24	0	0	48					
Combo Digital (19-45/FF) Ports   0	PoE Ports	0	0	0	0	0					
SPR-10 (Signature Ports   4	100/1000 BASE-X SFP Ports										
86 out of the first of the section o	<u> </u>										
Security Features			·			·					
December	RJ-45 Console Port										
No	6KV Surge Protect	No	No	No	No	No					
None Hungle   N/A	Power over Ethernet										
Proceedings	***************************************		-		-	_					
Table Memory   108		IN/A	IN/A	IN/A	IN/A	IN/A					
	Flash Memory	1GB	256 MB	256 MB	256 MB	256 MB					
Familian	SDRAM										
Onc to 45%   Onc to 50%   Onc											
128 Gbps   130 Mbps	Performance	0.0 10 45.0	0.0.0000	0.6 10 30.6	-10-0 10 05-0	0.6 10 30.6					
Forward Reite 95 Mpps 95 Mpps 95 Mpps 95 Mpps 130 Mpps Management and Maintenance  RIAS Console Port, IPv6 Management, Telnet/SSHv2, HTTP/HTTPs, SNMPv1/v2/v3, RMON (groups 1, 2, 3, 9)  Daving Port Mirry, SSPAM, SPAM  IEEE 802 3ah DAM, CFM IEEE 802 3ah DAM, IEE	Switching Capability	128 Gbps	128 Gbps	128 Gbps	128 Gbps	176 Gbps					
Wanagement Interface  RIJAS Console Port, IPv6 Management, Teinet/SSHv2, HTTP/HTTPs, SNMPv1/v2c/v3, RMON (groups 1, 2, 3, 9)  Dall Images, Zero Touch Provision, Upload/Download: FTP, TETP, HTTP  DAM  IEEE 802 3sh OAM, IEEE 802 1sh, CFM, Y,1731  Port Mirror, RSPAN, SFow  Software Stacking: IP Custering  Pout Mirror, RSPAN, SFow  AK VIANS, VIAN Trunking, Port-Base VIAN, MAC-Base VIAN, IP Subnet VIAN, VIAN Translation  GVRP, IEEE802 1Q, Q-In-Q, Selective Q-In-Q  DHCP Server  Support  STP (IEEE802 1D), RSTP (IEEE802 1W), MSTP (IEEE802 1S), ERPSV1/v2 (ITU-T G 8032), UDUD, Spanning-Tree, Loopback Detection and Non-Spanning-Tree Loopback Detection and Non-Spanning-Tree Loopback Detection  STP (IEEE802 1D), RSTP (IEEE802 1W), MSTP (IEEE802 1S), ERPSV1/v2 (ITU-T G 8032), UDUD, Spanning-Tree, Loopback Detection and Non-Spanning-Tree Loopback Detection  GMP Snooping v1/v2/v3, IGMP Querier v1/v2, IGMP Filtering and Throttling, IGMP Immediate Leave, IGMP Snooping Leave Proxy  MVR, MVR Proxy Switching, MLD v1/v2 Snooping  Security Features  EEE 802.1x  Veb Authentication, Port-Base, Mac-Base VIAN Assignment, Guest VIAN, QoS Assignment  Veb Authentication, Port-Base, Mac-Base VIAN Assignment, Guest VIAN, QoS Assignment  Static Trunk, IEEE802 1B, ERPSV1/v2 (ISMP Filtering and Throttling, IGMP Immediate Leave, IGMP Snooping Leave Proxy  MVR, MVR Proxy Switching, MLD v1/v2 Snooping  Security Features  EEE 802.1x  Veb Authentication, Port-Base, Mac-Base VIAN Assignment, Guest VIAN, QoS Assignment  DOS Protection  PV4/IPV6 DHCP Snooping, IPv4/IPV6 Source Guard  AAAA  Reduits, Taccas+  Imput and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Remarking of the 802.1p and DSCP  SP, WRR, SPWRR Queue Scheduling Algorithms  Imput and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP,		,		,		·					
Immware Configuration	Management and Maintenance				отрр						
	Management Interface	RJ45 Console Port, IPv6 Management, Telnet/SSHv2, HTTP/HTTPs, SNMPv1/v2c/v3, RMON (groups 1, 2, 3, 9)									
Nontrolling   Port Mirror, RSPAN, Sifow   Sadking: IP Clustering   Software stacking: IP Clustering   Software stacking: IP Clustering   IP Pouting   IP Poutin	Firmware Configuration		Dual Images, Zero Touc	h Provision, Upload/Dowr	load: FTP, TFTP, HTTP						
Software stacking: IP Clustering   Software stacking: IP Clustering   Software stacking: IP Clustering   IP v4/   IPv6 Static Route   IPv4/	OAM	IEEE 802.3ah OAM, CFM		IEEE 802.3ah OAM, IEEE	802.1ag, CFM, Y.1731						
PROUTING	Monitoring										
P Pouting			Soft	ware stacking: IP Clusterin	ıg						
## Routing ## Routing ## RIP V1/V2    AK VLANS, VLAN Trunking, Port-Base VLAN, MAC-Base VLAN, IP Subnet VLAN, VLAN Translation   GVRP, IEEE802.1Q, Q-in-Q, Selective Q-in-Q   Support	Layer 2+ Feature			IPv4 / IPv6 Static Route							
AK VLANS, VLAN Trunkling, Port-Base VLAN, MAC-Base VLAN, IP Subnet VLAN, VLAN Translation  GVRP, IEEE802.1Q, Q-in-Q, Selective Q-in-Q  Support  Support  Support  STP (IEEE802.1D), RSTP (IEEE802.1W), MSTP (IEEE802.1S), ERPSv1/v2 (ITU-T G.8032), UDLD, Spanning-Tree, Loopback Detection and Non-Spanning-Tree Loopback Detection  STP (IEEE802.1D), RSTP (IEEE802.1W), MSTP (IEEE802.1S), ERPSv1/v2 (ITU-T G.8032), UDLD, Spanning-Tree, Loopback Detection and Non-Spanning-Tree Loopback Detection  Static Trunk, IEEE802.3ad LACP, Traffic Load balance  Layer 2 Multicast Control  GMP Snooping v1/v2/v3, IGMP Querier v1/v2, IGMP Filtering and Throttling, IGMP Immediate Leave, IGMP Snooping Leave Proxy  MVR, MVR Proxy Switching, MLD v1/v2 Snooping  Security Features  EEE 802.1x  Web Authentication, Port-Base, Mac-Base VLAN Assignment, Guest VLAN, QoS Assignment  Port Security  Static /Dynamic MAC-Authentication Limit on the number of learned MAC Address, MAC Address Filter  Access Control List  L2 MAC Address ACL, L3IPv4 and IPv6 ACL, L4 UDP/TCP port  IPv4/IPv6 DHCP Snooping, IPv4/IPv6 Source Guard  AAA  Radius, Tacases  Switch Protection  DoS Protection, CPU Protection  BPDU Guard, Root Guard, BPDU Filter  APPOLY Root Guard, BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of the 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  - TrTCM (Two-Rate-Three-Color Marking)  Dimensions (W x D x H) cm  33 x 22 9 x 4.4  44 x 22 x 4.4  46 x 22 x 4.4  47 x 28 x 4.4	IP Routing	_			/V2						
GVRP, IEEE802.1Q, Q-in-Q, Selective Q-in-Q  DHCP Server  Support  Sing Protection  STP (IEEE802.1D), RSTP (IEEE802.1W), MSTP (IEEE802.1S), ERPSv1/v2 (ITU-T G.8032), UDLD, Spanning-Tree, Loopback Detection and Non-Spanning-Tree Loopback Detection  Junk Aggregation  Static Trunk, IEEE802.3ad LACP, Traffic Load balance  Layer 2 Multicast Control  GMP Snooping v1/v2/v3, IGMP Querier v1/v2, IGMP Filtering and Throttling, IGMP Immediate Leave, IGMP Snooping Leave Proxy  MVR, MVR Proxy Switching, MLD v1/v2 Snooping  Security Features  EEE 802.1x  Web Authentication, Port-Base, Mac-Base VLAN Assignment, Guest VLAN, QoS Assignment  Port Security  Static /Dynamic MAC-Authentication Limit on the number of learned MAC Address, MAC Address Filter  Access Control List  L2 MAC Address ACL, L3 Pv4 and IPv6 ACL, L4 UDP/TCP port  IPv4/IPv6 DHCP Snooping, IPv4/IPv6 Source Guard  ANA Radius, Tacacs+  Witch Protection  DoS Protection, CPU Protection  BPDU Goard, RPDU Filter  RPDU Goard, RPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of the 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  - TriCM (Two-Rate-Three-Color Marking)  Dimensions (W x D x H) cm 33 x 22 9 x 4.4 44 x 22 x	VLAN										
STP (IEEE802.1D), RSTP (IEEE802.1W), MSTP (IEEE802.1S), ERPSv1/v2 (ITU-T G.8032), UDLD, Spanning-Tree, Loopback Detection and Non-Spanning-Tree Loopback Detection and Non-Spanning-Tree Loopback Detection  Static Trunk, IEEE802.3ad LACP, Traffic Load balance  Layer 2 Multicast Control  GMP Snooping v1/v2/v3, IGMP Querier v1/v2, IGMP Filtering and Throttling, IGMP Immediate Leave, IGMP Snooping Leave Proxy MVR, MVR Proxy Switching, MLD v1/v2 Snooping  Security Features  EEE 802.1x  Web Authentication, Port-Base, Mac-Base VLAN Assignment, Guest VLAN, QoS Assignment  Port Security  Static /Dynamic MAC-Authentication Limit on the number of learned MAC Address, MAC Address Filter  ACCESS Control List  L2 MAC Address ACL, L3IPv4 and IPv6 ACL, L4 UDP/TCP port  IPv4/IPv6 DHCP Snooping, IPv4/IPv6 Source Guard  AAA  Radius, Tacacs+  Switch Protection  DoS Protection, CPU Protection  BPDU Guard, Root Guard, BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  - TrTCM (Two-Rate-Three-Color Marking)  Dimensions (W x D x H) cm  33 x 22.9 x 4.4  44 x 22 x 4.4  46 x 22 x 4.4  47 x 28 x 4.4		4K VLANs, VLAN Trunking, Port-Base VLAN, MAC-Base VLAN, IP Subnet VLAN, VLAN Translation									
STP (IEEE802.1D), RSTP (IEEE802.1W), MSTP (IEEE802.1S), ERPSv1/v2 (ITU-T G.8032), UDLD, Spanning-Tree, Loopback Detection and Non-Spanning-Tree Loopback Detection and Non-Spanning-Tree Loopback Detection  Static Trunk, IEEE802.3ad LACP, Traffic Load balance  Layer 2 Multicast Control  GMP Snooping v1/v2/v3, IGMP Querier v1/v2, IGMP Filtering and Throttling, IGMP Immediate Leave, IGMP Snooping Leave Proxy  MVR, MVR Proxy Switching, MLD v1/v2 Snooping  Security Features  EEE 802.1x Web Authentication, Port-Base, Mac-Base VLAN Assignment, Guest VLAN, QoS Assignment  Port Security Static / Dynamic MAC-Authentication Limit on the number of learned MAC Address, MAC Address Filter  ACCESS Control List 12 MAC Address ACL, L3IPv4 and IPv6 ACL, L4 UDP/TCP port  AAA Radius, Tacas+  Switch Protection DoS Protection, CPU Protection  BPDU Guard, BPDU Filter BPDU Guard, Root Guard, BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification DISCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  - TrTCM (Two-Rate-Three-Color Marking)  Dimensions (W x D x H) cm 33 x 22.9 x 4.4 4 x 22			GVRP, IEE	E802.1Q, Q-in-Q, Selectiv	re Q-in-Q						
STP (IEEE802.1D), RSTP (IEEE802.1W), MSTP (IEEE802.1S), ERPSv1/v2 (ITU-T G.8032), UDLD, Spanning-Tree, Loopback Detection and Non-Spanning-Tree Loopback Detection  Static Trunk, IEEE802.3ad LACP, Traffic Load balance  Layer 2 Multicast Control  GMP Snooping v1/v2/v3, IGMP Querier v1/v2, IGMP Filtering and Throttling, IGMP Immediate Leave, IGMP Snooping Leave Proxy MVR, MVR Proxy Switching, MLD v1/v2 Snooping  Security Features  EEE 802.1x  Web Authentication, Port-Base, Mac-Base VLAN Assignment, Guest VLAN, QoS Assignment  Port Security  Static /Dynamic MAC-Authentication Limit on the number of learned MAC Address, MAC Address Filter  Access Control List  12 MAC Address ACL, L3IPv4 and IPv6 ACL, L4 UDP/TCP port  IPv4/IPv6 DHCP Snooping, IPv4/IPv6 Source Guard  AAA  Radius, Tacas+  DoS Protection, CPU Protection  BPDU Guard, Root Guard, and BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  - Traffic Classification Diffserve Add Address Access Control Was Address Access Control Was Address Access Control Was Address Access Control Was Access Control Was Access Control List  1 protection  1 protection  1 protection  2 protection, CPU Protection  3 protection, CPU Protection  3 protection BPDU Guard, Root Guard, and BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  - Traffic Classification Diffserve Address Access Control Was Access Co	DHCP Server	I	ı								
STP (IEEE802.1D), RSTP (IEEE802.1W), MSTP (IEEE802.1S), ERPSV1/V2 (ITU-T G.8032), UDLD, Spanning-Tree, Loopback Detection and Non-Spanning-Tree Loopback Detection  Static Trunk, IEEE802.3ad LACP, Traffic Load balance  Layer 2 Multicast Control  GMP Snooping v1/v2/v3, IGMP Querier v1/v2, IGMP Filtering and Throttling, IGMP Immediate Leave, IGMP Snooping Leave Proxy MVR, MVR Proxy Switching, MLD v1/v2 Snooping  Security Features  EEE 802.1x Web Authentication, Port-Base, Mac-Base VLAN Assignment, Guest VLAN, QoS Assignment  Port Security  Static /Dynamic MAC-Authentication Limit on the number of learned MAC Address, MAC Address Filter  Access Control List L2 MAC Address ACL, L3IPv4 and IPv6 ACL, L4 UDP/TCP port  IPv4/IPv6 DHCP Snooping, IPv4/IPv6 Source Guard  AAA Radius, Taccss-  ACAA Radius, Taccs-  DoS Protection  DOS Protection, CPU Protection  BPDU/ Root Guard, BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  TrTCM (Two-Rate-Three-Color Marking)  Dimensions (W x D x H) cm  3 x 22.9 x 4.4 44 x 22 x 4.4 44 x		-		Supp	ort						
Detection and Non-Spanning-Tree Loopback Detection  Static Trunk, IEEE802.3ad LACP, Traffic Load balance  GMP Snooping v1/v2/v3, IGMP Querier v1/v2, IGMP Filtering and Throttling, IGMP Immediate Leave, IGMP Snooping Leave Proxy MVR, MVR Proxy Switching, MLD v1/v2 Snooping  Security Features  EEE 802.1x Web Authentication, Port-Base, Mac-Base VLAN Assignment, Guest VLAN, QoS Assignment  Port Security Static /Dynamic MAC-Authentication Limit on the number of learned MAC Address, MAC Address Filter  Access Control List L2 MAC Address ACL, L3IPv4 and IPv6 ACL, L4 UDP/TCP port  AAA Radius, Tacass+  Switch Protection DoS Protection, CPU Protection  BPDU Guard, Root Guard, BPDU Filter  BPDU Guard, Root Guard, and BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  TrTCM (Two-Rate-Three-Color Marking)  TrTCM (Two-Rate-Three-Color Marking)  Dimensions (W x D x H) cm 33 x 22.9 x 4.4 44 x 22 x 4.4 44	Ring Protection										
Static Trunk, IEEE802.3ad LACP, Traffic Load balance  Layer 2 Multicast Control  GMP Snooping v1/v2/v3, IGMP Querier v1/v2, IGMP Filtering and Throttling, IGMP Immediate Leave, IGMP Snooping Leave Proxy  MVR, MVR Proxy Switching, MLD v1/v2 Snooping  Security Features  EEE 802.1x Web Authentication, Port-Base, Mac-Base VLAN Assignment, Guest VLAN, QoS Assignment  Port Security Static / Dynamic MAC-Authentication Limit on the number of learned MAC Address, MAC Address Filter  Access Control List L2 MAC Address ACL, L3IPv4 and IPv6 ACL, L4 UDP/TCP port  LAN Protection IPv4/IPv6 DHCP Snooping, IPv4/IPv6 Source Guard  AAA Radius, Tacacs+  Switch Protection DoS Protection, CPU Protection  3PDU/ Root Guard, BPDU Filter BPDU Guard, Root Guard, and BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  — TrCM (Two-Rate-Three-Color Marking)  Dimensions (W x D x H) cm 33 x 22.9 x 4.4 44 x 22 x 4.4 44 x											
GMP Snooping v1/v2/v3, IGMP Querier v1/v2, IGMP Filtering and Throttling, IGMP Immediate Leave, IGMP Snooping Leave Proxy  MVR, MVR Proxy Switching, MLD v1/v2 Snooping  Security Features  EEE 802.1x  Web Authentication, Port-Base, Mac-Base VLAN Assignment, Guest VLAN, QoS Assignment  Port Security  Static / Dynamic MAC-Authentication Limit on the number of learned MAC Address, MAC Address Filter  Access Control List  L2 MAC Address ACL, L3IPv4 and IPv6 ACL, L4 UDP/TCP port  LAN Protection  IPv4/IPv6 DHCP Snooping, IPv4/IPv6 Source Guard  AAA  Radius, Tacacs+  DoS Protection, CPU Protection  BPDU Guard, Root Guard, BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  - TrTCM (Two-Rate-Three-Color Marking)  Dimensions (W x D x H) cm  33 x 22.9 x 4.4 44 x 22 x 4.4 44 x	Link Aggregation										
GMP Snooping v1/v2/v3, IGMP Querier v1/v2, IGMP Filtering and Throttling, IGMP Immediate Leave, IGMP Snooping Leave Proxy  MVR, MVR Proxy Switching, MLD v1/v2 Snooping  Security Features  EEE 802.1x  Web Authentication, Port-Base, Mac-Base VLAN Assignment, Guest VLAN, QoS Assignment  Port Security  Static / Dynamic MAC-Authentication Limit on the number of learned MAC Address, MAC Address Filter  Access Control List  L2 MAC Address ACL, L3IPv4 and IPv6 ACL, L4 UDP/TCP port  LAN Protection  IPv4/IPv6 DHCP Snooping, IPv4/IPv6 Source Guard  AAA  Radius, Tacacs+  DoS Protection, CPU Protection  BPDU Guard, Root Guard, BPDU Filter  BPDU Guard, Root Guard, and BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  - TrTCM (Two-Rate-Three-Color Marking)  Dimensions (W x D x H) cm  33 x 22.9 x 4.4 44 x 22 x 4.4 44 x 2		Static Trunk, IEEE802.3ad LACP. Traffic Load balance									
GMP Snooping v1/v2/v3, IGMP Querier v1/v2, IGMP Filtering and Throttling, IGMP Immediate Leave, IGMP Snooping Leave Proxy  MVR, MVR Proxy Switching, MLD v1/v2 Snooping  Security Features  EEE 802.1x  Web Authentication, Port-Base, Mac-Base VLAN Assignment, Guest VLAN, QoS Assignment  Port Security  Static / Dynamic MAC-Authentication Limit on the number of learned MAC Address, MAC Address Filter  Access Control List  L2 MAC Address ACL, L3IPv4 and IPv6 ACL, L4 UDP/TCP port  LAN Protection  IPv4/IPv6 DHCP Snooping, IPv4/IPv6 Source Guard  AAA  Radius, Tacacs+  DoS Protection, CPU Protection  BPDU Guard, Root Guard, BPDU Filter  BPDU Guard, Root Guard, and BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  - TrTCM (Two-Rate-Three-Color Marking)  Dimensions (W x D x H) cm  33 x 22.9 x 4.4 44 x 22 x 4.4 44 x 2	Laver 2 Multicast Control										
Security Features  EEE 802.1x  Web Authentication, Port-Base, Mac-Base VLAN Assignment, Guest VLAN, QoS Assignment  Port Security  Static / Dynamic MAC-Authentication Limit on the number of learned MAC Address, MAC Address Filter  Access Control List  L2 MAC Address ACL, L3 IPv4 and IPv6 ACL, L4 UDP/TCP port  LAN Protection  IPv4/IPv6 DHCP Snooping, IPv4/IPv6 Source Guard  AAA  Radius, Tacacs+  Switch Protection  BPDU Guard, Root Guard, and BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  TrTCM (Two-Rate-Three-Color Marking)  Dimensions (W x D x H) cm  33 x 22.9 x 4.4  44 x 22 x 4.4  46 x 22 x 4.4  Ad x 22 x 4.4		Proxy									
Web Authentication, Port-Base, Mac-Base VLAN Assignment, Guest VLAN, QoS Assignment  Static / Dynamic MAC-Authentication Limit on the number of learned MAC Address, MAC Address Filter  L2 MAC Address ACL, L3 IPv4 and IPv6 ACL, L4 UDP/TCP port  LAN Protection  IPv4/IPv6 DHCP Snooping, IPv4/IPv6 Source Guard  AAA  Radius, Tacacs+  Switch Protection  DoS Protection, CPU Protection  BPDU Guard, Root Guard, and BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  - TrTCM (Two-Rate-Three-Color Marking)  Dimensions (W x D x H) cm  Power Supply Unit  100-240V AC PSU  • • • • • • • • • • • • • • • • • • •	Socurity Foatures		· · · · · · · · · · · · · · · · · · ·								
Port Security  Static / Dynamic MAC-Authentication Limit on the number of learned MAC Address, MAC Address Filter  L2 MAC Address ACL, L3 IPV4 and IPV6 ACL, L4 UDP/TCP port  LAN Protection  IPV4/IPV6 DHCP Snooping, IPV4/IPV6 Source Guard  AAA  Radius, Tacacs+  Switch Protection  BPDU/ Root Guard, BPDU Filter  DoS Protection, CPU Protection  BPDU Guard, Root Guard, and BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  TrTCM (Two-Rate-Three-Color Marking)  Dimensions (W x D x H) cm  33 x 22.9 x 4.4 44 x 22 x 4.4  Power Supply Unit  100-240V AC PSU  • • • • • • • • • • • • • • • • • • •	·		anticotion David	Ann Dann M. A.M. A.	t Cuastillan C.C.	:					
Access Control List  L2 MAC Address ACL, L3IPv4 and IPv6 ACL, L4 UDP/TCP port  IPv4/IPv6 DHCP Snooping, IPv4/IPv6 Source Guard  AAA  Radius, Tacacs+  Switch Protection  DoS Protection, CPU Protection  BPDU Guard, Root Guard, and BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  Input and Output Rate-Limiting Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  Input and Output Rate-Limiting Policing, C	ILEE 807.TX	Web Authentication, Port-Base, Mac-Base VLAN Assignment, Guest VLAN, QoS Assignment									
AAA Radius, Tacacs+ Switch Protection DoS Protection, CPU Protection  BPDU/ Root Guard, BPDU Filter BPDU Guard, Root Guard, and BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP SP, WRR, SP+WRR Queue Scheduling Algorithms  TrTCM (Two-Rate-Three-Color Marking)  Dimensions (W x D x H) cm 33 x 22.9 x 4.4 44 x 22 x 4.4	Port Security	Static / Dynamic MAC-Authentication Limit on the number of learned MAC Address, MAC Address Filter									
Radius, Tacacs+ Switch Protection  DoS Protection, CPU Protection  BPDU/ Root Guard, BPDU Filter  BPDU Guard, Root Guard, and BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP  SP, WRR, SP+WRR Queue Scheduling Algorithms  TrTCM (Two-Rate-Three-Color Marking)  Dimensions (W x D x H) cm 33 x 22.9 x 4.4 44 x 22 x 4.4	Access Control List	L2 MAC Address ACL, L3IPv4 and IPv6 ACL, L4 UDP/TCP port									
DoS Protection, CPU Protection  BPDU Guard, Root Guard, and BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP SP, WRR, SP+WRR Queue Scheduling Algorithms  - TrTCM (Two-Rate-Three-Color Marking)  Dimensions (W x D x H) cm 33 x 22.9 x 4.4 44 x 22 x	LAN Protection	IPv4/IPv6 DHCP Snooping, IPv4/IPv6 Source Guard									
BPDU Guard, Root Guard, and BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP SP, WRR, SP+WRR Queue Scheduling Algorithms  TrTCM (Two-Rate-Three-Color Marking)  Dimensions (W x D x H) cm 33 x 22.9 x 4.4 44 x 22 x 4.4 4	AAA	Radius, Tacacs+									
BPDU Guard, Root Guard, and BPDU Filter  Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP SP, WRR, SP+WRR Queue Scheduling Algorithms  TrTCM (Two-Rate-Three-Color Marking)  Dimensions (W x D x H) cm 33 x 22.9 x 4.4 44 x 22 x 4.4 4	Switch Protection	DoS Protection, CPU Protection									
Input and Output Rate-Limiting per Port, Traffic Classification Diffserv and Port-Based Traffic Policing, CoS 802.1P, DSCP, Re-marking of th 802.1p and DSCP   SP, WRR, SP+WRR Queue Scheduling Algorithms   TrTCM (Two-Rate-Three-Color Marking)   Dimensions (W x D x H) cm				· · · · · · · · · · · · · · · · · · ·							
Re-marking of th 802.1p and DSCP   SP, WRR, SP+WRR Queue Scheduling Algorithms	Bi Bo, Neot Gaara, Bi Bo i inci										
Dimensions (W x D x H) cm         33 x 22.9 x 4.4         44 x 22 x 4.4	QoS Features	Input and Output Rate-I	Re-marking of th 802.1p and DSCP								
Power Supply Unit 100-240V AC PSU		-		TrTCM (Two-Rate-Th	ree-Color Marking)						
100-240V AC PSU	Dimensions (W x D x H) cm	33 x 22.9 x 4.4	44 x 22 x 4.4	44 x 22 x 4.4	44 x 22 x 4.4	44 x 28 x 4.4					
-48V DC PSU • - • -	Power Supply Unit										
	100-240V AC PSU	•	•	•	•	•					
Support ecCLOUD Yes Yes Yes Yes	-48V DC PSU	•	-	•	•	-					
	Support ecCLOUD		Yes	Yes	Yes	Yes					



#### **About Edgecore Networks**

Edgecore Networks delivers wired and wireless networking products and solutions through channel partners and system integrators worldwide for the Data Center, Service Provider, Enterprise and SMB customers. Edgecore Networks is the leader in open networking providing a full line of open WiFi access points, packet transponders, virtual PON OLTs, and 1G, 2.5G, 10G, 25G, 10OG and 40OG OCP-ACCEPTED™ switches that offer choice of commercial and open source NOS and SDN software.

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