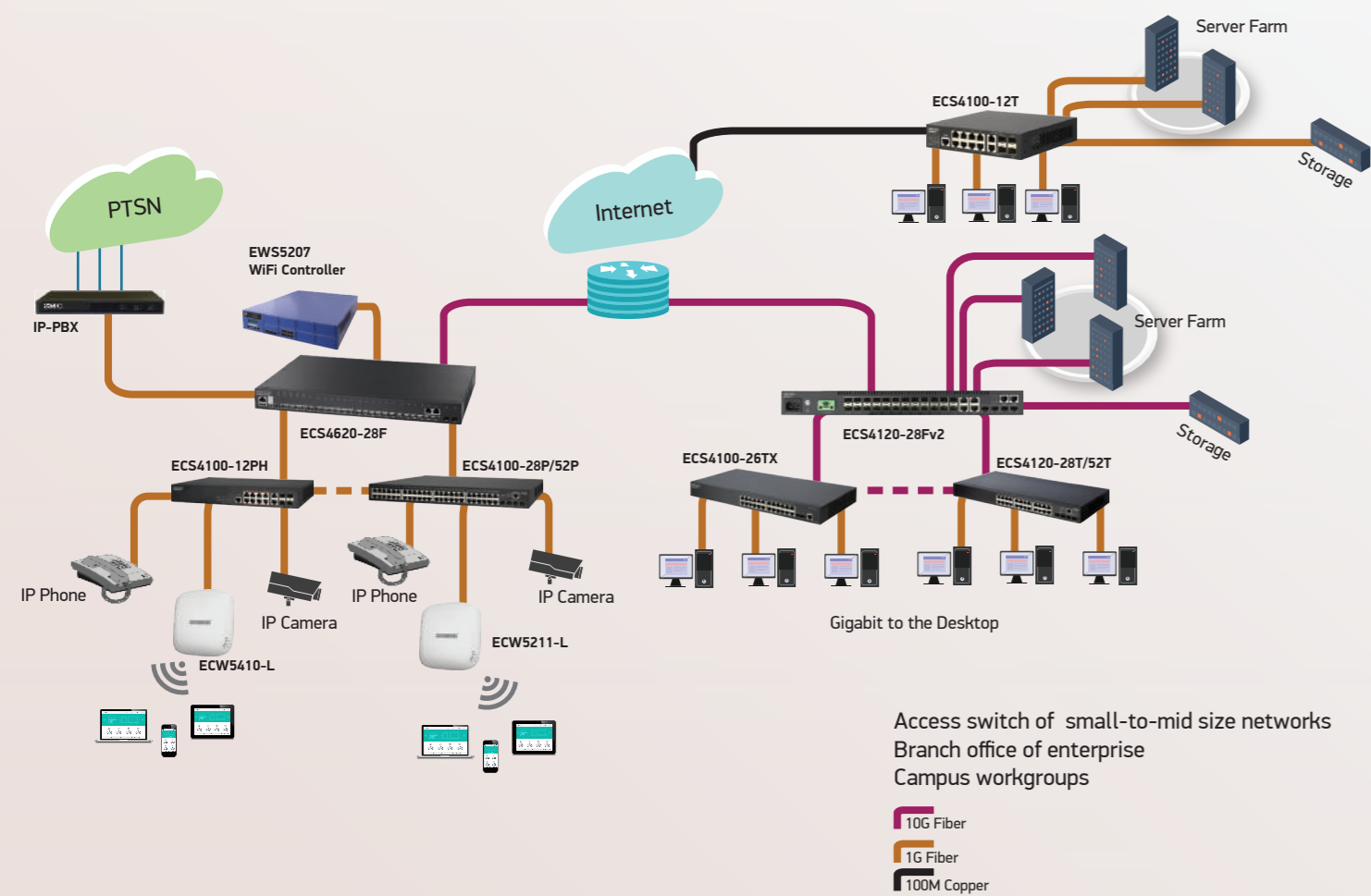


GE WITH GE/10G UPLINK ACCESS SWITCH APPLICATION



Access switch of small-to-mid size networks
Branch office of enterprise
Campus workgroups



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, 10G, 25G, 40G, 100G and 400G OCP-ACCEPTED™ switches that offer choice of commercial and open source NOS and SDN software.

www.edge-core.com

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Gigabit Ethernet Access Switch with 1G or 10G Uplink Options

for
Internet Service Providers (ISPs),
Multiple System Operators (MSOs)
and SMB/Enterprise Networks



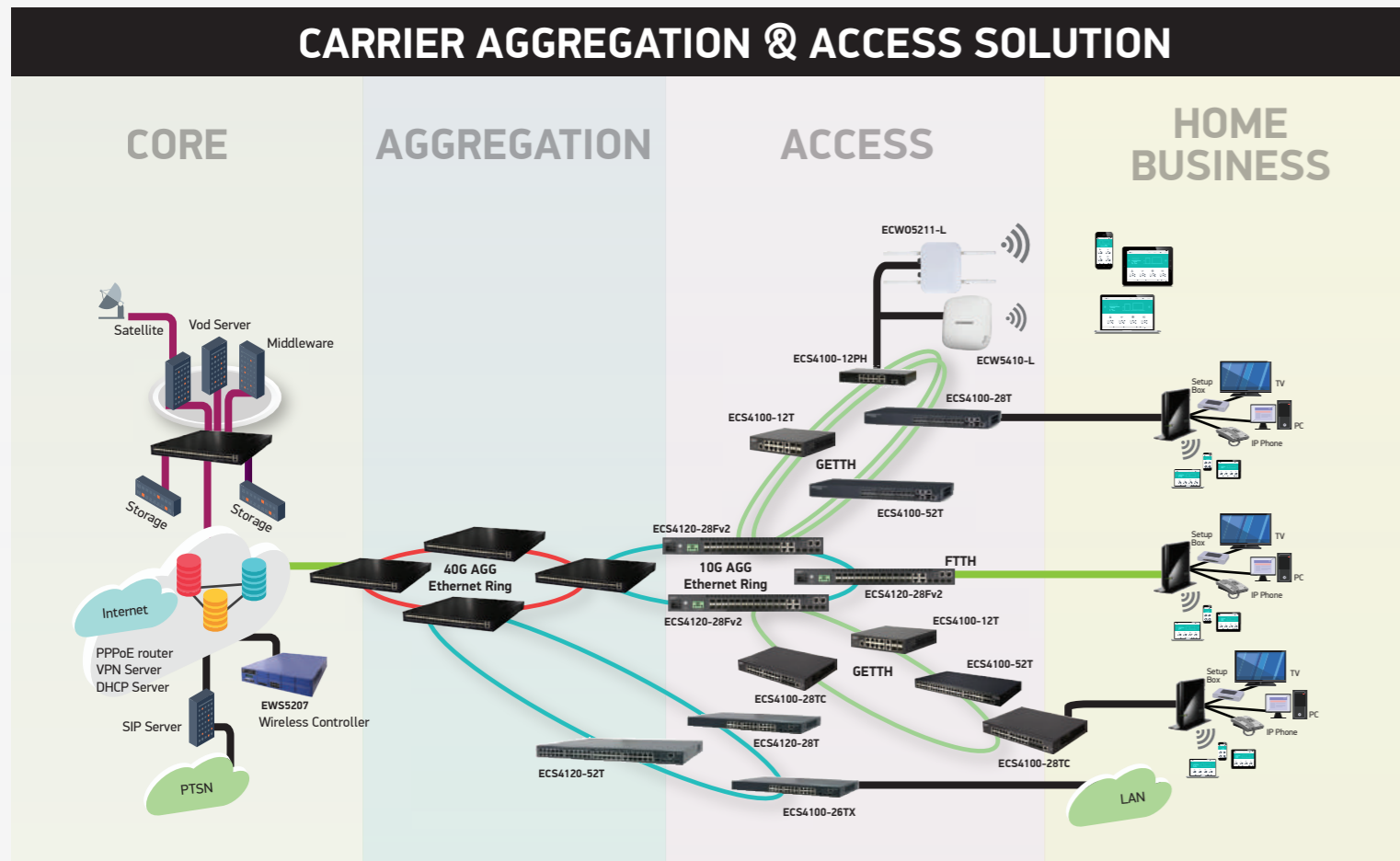
Overview

The Edgecore ECS4100-28T/52T switch is a Gigabit Ethernet access switch with four 1G uplink ports. The Edgecore ECS4100-26TX/26TX-ME is a Gigabit Ethernet access switch with two 10G uplink ports. These 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



ECS4100 and ECS4120 Series Feature Matrix Table

High Performance Cost-effective.

Product Model	ECS4100-12T	ECS4100-12PH	ECS4100-26TX	ECS4100-26TX-ME	ECS4100-28T	ECS4100-28TC	ECS4100-28P	ECS4100-52T	ECS4100-52P	ECS4120-28T	ECS4120-28Fv2	ECS4120-28Fv2-I	ECS4120-52T
Fixed Port													
RJ-45 10/100/1000 BASE-T Ports	8	8	24	24	24	24	24	48	48	24	0	0	48
PoE Ports	0	8	0	0	0	0	24	0	48	0	0	0	0
100/1000 BASE-X SFP Ports	2	2	0	0	4	0	4	4	4	0	20	20	0
Combo Gigabit (RJ-45/SFP) Ports	2	2	0	0	0	4	0	0	0	0	4	4	0
SFP+ 10 Gigabit Uplink Ports	0	0	2	2	0	0	0	0	0	4	4	4	4
GE out of band Management Port	No	No	No	No	No	No	No	No	No	No	1	1	No
RJ-45 Console Port	1	1	1	1	1	1	1	1	1	1	1	1	1
GKV Surge Protect	No	Yes	No	Yes	No	No	No	No	No	No	No	No	No
Power over Ethernet													
802.3af and 802.3at	No	Yes	No	No	No	No	Yes	No	Yes	No	No	No	No
Power Budget	N/A	180W	N/A	N/A	N/A	N/A	190W	N/A	370W	N/A	N/A	N/A	N/A
Physical Configuration													
Flash Memory	32 MB	32 MB	32 MB	32 MB	32 MB	32 MB	32 MB	32 MB	32 MB	256 MB	256 MB	256 MB	256 MB
SDRAM	256 MB	256 MB	256 MB	256 MB	256 MB	256 MB	256 MB	256 MB	256 MB	512 MB	512 MB	512 MB	512 MB
Packet Buffer	1.5MB	1.5MB	1.5MB	1.5MB	1.5MB	1.5MB	1.5MB	1.5MB	1.5MB	1.5MB	1.5MB	1.5MB	1.5MB
FAN/FANLESS	Fanless	Fan,48 dB (A)	Fanless	Fanless	Fanless	Fanless	Fan,53 dB (A)	Fanless	Fan,51.1 dB (A)	Fanless	Fan	Fan	Fan
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 50°C	0°C to 50°C	0°C to 45°C	0°C to 50°C	0°C to 50°C	0°C to 50°C	-10°C to 65°C	0°C to 50°C
Performance													
Switching Capability	24 Gbps	24 Gbps	88 Gbps	88 Gbps	56 Gbps	56 Gbps	56 Gbps	104 Gbps	104 Gbps	128 Gbps	128 Gbps	128 Gbps	176 Gbps
Forwarding Rate	17.85 Mpps	17.85 Mpps	65.5 Mpps	65.5 Mpps	41.6 Mpps	41.6 Mpps	41.6 Mpps	77.4 Mpps	77.4 Mpps	95 Mpps	95 Mpps	95 Mpps	130 Mpps
Management and Maintenance													
Management Interface	RJ45 Console Port, IPv6 Management, Telnet/SSHv2, HTTP/HTTPS, SNMPv1/v2c/v3, RMON (groups 1, 2, 3, 9)									RJ45 Console Port, IPv6 Management, Telnet/SSHv2, HTTP/HTTPS, SNMPv1/v2c/v3, RMON (groups 1, 2, 3, 9)			
Firmware Configuration	Dual Images, Zero Touch Provision, Upload/Download: FTP, TFTP, HTTP									Dual Images, Zero Touch Provision, Upload/Download: FTP, TFTP, HTTP			
OAM	IEEE 802.3ah OAM, IEEE 802.1ag CFM, Y.1731									IEEE 802.3ah OAM, IEEE 802.1ag CFM, Y.1731			
Monitoring	Port Mirror, RSPAN, sFlow									Port Mirror, RSPAN, sFlow			
Stacking Feature	Software stacking: IP Clustering									Software stacking: IP Clustering			
Layer 2+ Feature													
IP Routing	IPv4 Static Route									IPv4 Static Route			
	-									IPv6 Static Route			
VLAN													
	4K VLANs, Port-Base VLAN, MAC-Base VLAN, IP Subnet VLAN, VLAN Translation									4K VLANs, VLAN Trunking , Port-Base VLAN, MAC-Base VLAN, IP Subnet VLAN, VLAN Translation			
	GVRP, IEEE802.1Q, Q-in-Q, Selective Q-in-Q									GVRP, IEEE802.1Q, Q-in-Q, Selective Q-in-Q			
Ring Protection													
	(*) STP (IEEE802.1D) RSTP (IEEE802.1W), MSTP (IEEE802.1S) ERPSv1/v2 (ITU-T G.8032), 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			
Link Aggregation													
	Static Trunk, IEEE802.3ad LACP, Traffic Load balance									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									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									MVR, MVR Proxy, MLD v1/v2 Snooping			
Security Features													
IEEE 802.1x	Web Authentication, Port-Base, Guest VLAN, Mac-Base VLAN Assignment, QoS Assignment									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									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									L2 MAC Address ACL, L3IPv4 and IPv6 ACL, L4 UDP/TCP port			
LAN Protection	IPv4/IPv6 DHCP Snooping, IPv4/IPv6 Source Guard									IPv4/IPv6 DHCP Snooping, IPv4/IPv6 Source Guard			
AAA	Radius, Tacacs+									Radius, Tacacs+			
Switch Protection	DoS Protection, CPU Protection									DoS Protection, CPU Protection			
BPDU/ Root Guard, BPDU Filter	BPDU Guard, Root Guard, and 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									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, TTCM (Two-Rate-Three-Color Marking)									SP, WRR, SP+WRR Queue Scheduling Algorithms, TTCM (Two-Rate-Three-Color Marking)			
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 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	44 x 22 x 4.4	44 x 22 x 4.4	44 x 22 x 4.4	44 x 28 x 4.4
Power Supply Unit													
100-240V AC PSU	•	•	•	• (Dual power input: AC+DC)	•	•	•	•	•	•	• (Dual power input: AC+DC)	• (Dual power input: AC+DC)	•

(*) ECS4100-12PH/28P/52P/28TC (sub 50 ms, convergence)

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