

# ECS1100-5P/10HP/28HP

## L2 Smart Switch with 802.3af/at/bt PoE



### Product Highlights

- 0°C to 50°C
- 6KV surge protection
- 802.3af/at/bt PoE
- PoE timer/priority
- PD alive detection
- PoE range from 120 W to 480 W
- PoE extend-mode
- IGMP Snooping v1/v2
- Access/Trunk VLAN
- Fanless (ECS1100-5P)
- CE/FCC: LVD/VCCI/BSMI/UKCA
- Web/ecCLOUD management

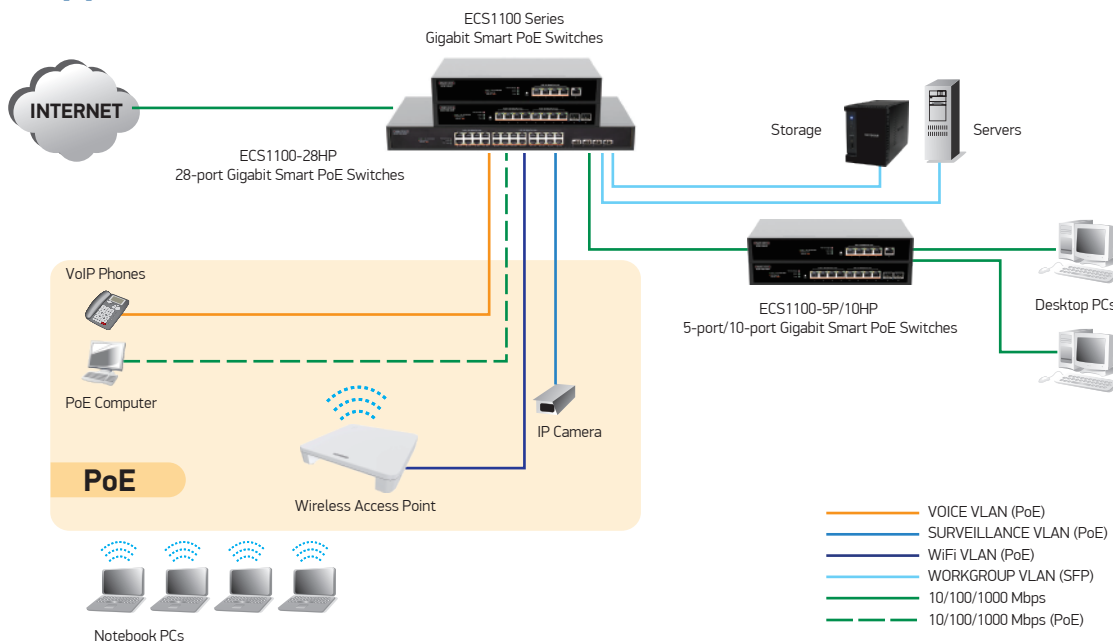
### Product Overview




The ECS1100 Series is Edgecore's latest generation of cost-effective smart switches. The ECS1100 Series is designed for SMB and enterprise markets with complete solutions from 5 to 28 ports, including 802.3af/at/bt PoE options. The switches comply with the IEEE 802.3az Energy Efficient Ethernet standard and support IPv4 management features.

The ECS1100-5P is a fanless design PoE switch that supports up to 4 ports at 30 W to meet the increasing power demands of users. The ECS1100 Series offers complete PoE solutions from 120 W to 480 W. All the switches are rack mountable.

The ECS1100-10HP/28HP support 802.3bt PoE Type4 with Power Class 8, which means its maximum power from PSE to PD is up to 90 W. The ECS1100-10HP/28HP also delivers a default 250/480 W of PoE power to support future IP cameras, IP video telephones, access points, and PoE computers.

### Network Application



Product Model		ECS1100-5P	ECS1100-10HP	ECS1100-28HP
<b>Product Image</b>				
<b>Port</b>	RJ-45 10/100/1000 Ports	5	8	24
	100/1000 SFP Ports	0	2	4
<b>Performance</b>	Switching Capacity	10 Gbps	20 Gbps	56 Gbps
	Forwarding Rate	7.44 Mpps	14.9 Mpps	41.7 Mpps
	Flash Memory	8 MB	8 MB	8 MB
	SRAM (Built-In)	256 KB	256 KB	256 KB
	Packet Buffer Size	4 Mbits	4 Mbits	4 Mbits
	MAC Address Table Size	8 K	8 K	8 K
	Jumbo Frames	15 KB	15 KB	15 KB
	Auto-negotiation, Auto-MDI/MDIX	Yes	Yes	Yes
	Surge Protection	6KV (RJ-45), 6KV (Power)	6KV (RJ-45), 6KV (Power)	6KV (RJ-45), 6KV (Power)
	MTBF	≥ 200,000 hrs	≥ 200,000 hrs	≥ 200,000 hrs
	Heat Dissipation (BTU/hr)	477.7	921.2	1910.7
	Acoustic Noise	0	< 50 dB (A)	< 50 dB (A)
	<b>PoE</b>	PoE Ports	4	8
PoE++ based on IEEE 802.3bt (up to 90 W)		No	Yes	Yes
PoE+ based on IEEE 802.3at/802.3af		Yes	Yes	Yes
Auto Disable after Exceeding Power Budget		Yes	Yes	Yes
Dynamic Power Allocation		Yes	Yes	Yes
PoE Power Budget		120 W	250 W	480 W
<b>Mechanical</b>	Dimension (W x D x H)	294 x 180 x 44 mm	294 x 180 x 44 mm	440 x 260 x 44 mm
	Weight	1.44 kg (3.17 lb)	1.56 kg (3.44 lb)	3.54 kg (7.80 lb)
<b>Power Supply</b>	100-240 VAC, 50-60 Hz	Yes	Yes	Yes
	Max System Power Consumption (Watts)	140 W	270 W	560 W
<b>Environmental</b>	Operating Temperature	0 – 50°C	0 – 50°C	0 – 50°C
	Storage Temperature	-40 – 70°C	-40 – 70°C	-40 – 70°C
	Operating Humidity (non-condensing)	10% – 90%	10% – 90%	10% – 90%
	Storage Temperature (non-condensing)	10% – 90%	10% – 90%	10% – 90%
	WEEE	Yes	Yes	Yes
	RoHS	Yes	Yes	Yes
<b>Certification</b>	FCC Class A	Yes	Yes	Yes
	CE	Yes	Yes	Yes
	Safety Compliance: LVD	Yes	Yes	Yes
	VCCI/BSMI	Yes	Yes	Yes
	UKCA	Yes	Yes	Yes
<b>ecCLOUD Management</b>		Supported	Supported	Supported

## Ports

- RJ-45 Port Support:
  - 10BASE-T (IEEE 802.3)
  - 100BASE-TX (IEEE 802.3u)
  - 1000BASE-T (IEEE 802.3ab)
- SFP Port Support:
  - IEEE 802.3u (100BASE-FX) transceivers
  - IEEE 802.3z (1000BASE-SX/LX/LHX/ZX) transceivers
- Digital Diagnostic Monitoring (DDM) on 1G SFP port
- Auto MDI/MDI-X
- Auto-negotiation for port speed and duplex mode

## L2 Features

- Link Aggregation
  - Static Trunk
- STP
- DHCP Client
- Flow Control:
  - IEEE 802.3x for full-duplex mode
  - Back-Pressure for half-duplex mode
- VLANs:
  - VLAN Access
  - VLAN Trunk
- Multicast VLAN Registration (MVR)
- Voice VLAN
- PoE
  - PoE timer
  - PoE Priority (by port no.)\*
  - PD-Alive
  - PoE extend-mode
- Storm Control
  - Broadcast storm control
  - Multicast storm control
  - Unknown unicast storm control
- IGMP Snooping
  - IGMP v1/v2 Snooping
- Loopback Detection
- Spanning Tree Protocol
  - IEEE 802.1D Spanning Tree Protocol (STP)
  - IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
- LLDP (IEEE 802.1ab)
- IP management
  - Configuration import/export
  - Firmware upgrade
  - Restart
  - Reset to factory default
  - User name/password

## QoS Features

- Rate Limiting (Ingress/Egress Port-Based)
- Priority Queues Schedule (Strict Priority/WRR)
- QoS mode (Port-based/802.1p/DSCP)

## Power Supply

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

\*PoE priority level on <port-list>. For a given level, ports are prioritized by port number in ascending order. For example, if ports #1-#24 have a priority level of critical, port #1 has priority over ports #2-#24.

## Security

- DDOS Protection
- IP Source Guard
- ACLs (Access Control Lists)
  - Ingress Only
  - MAC-based ACL
  - IPv4/IPv6-based ACL
- DHCP Snooping
- Port Isolation
- Port Mirror (One to One)

## Electromagnetic Compatibility

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

## Safety

- LVD:
  - EN 62368-1
  - EN IEC 62368-1

## Environmental Specifications

- Temperature:
  - 0°C to 50°C (Standard Operating)
  - 40°C to 70°C (Non-Operating)
- Humidity: 10% to 90% (Non-condensing)

## Warranty

Please check [www.edge-core.com](http://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](http://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](http://www.edge-core.com).

Edgecore Networks Corporation is a subsidiary of Accton Technology Corporation, the leading network ODM company. The Edgecore data center switches are developed and manufactured by Accton.

To purchase Edgecore Networks solutions, please contact your Edgecore Networks Corporation representatives at +886 3 563 8888 (HQ) or +1 (949)-336-6801 or authorized resellers.

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## Ordering Information

Optional Accessories	Product Description
ET4202-SX	1Gbps, (Distance: 500 m; Wavelength: 850 nm, DDM)
ET4202-LX	1Gbps, (Distance: 10 km; Wavelength: 1310 nm, DDM)
ET4202-EX	1Gbps, (Distance: 40 km; Wavelength: 1310 nm, DDM)
ET4202-ZX	1Gbps, (Distance: 80 km; Wavelength: 1550 nm, DDM)
ET4202-RJ45	1Gbps, (Distance: 100 m)