



## EnGenius Cloud Switch Series

Multi-Gigabit Performance, Enterprise Features & Cloud Management

**EnGenius Cloud Switch Series** provides enterprise-class features for simplifying network configuration and monitoring for mid-size to large businesses. With advanced management, EnGenius Switches enhance network performance to allow companies to focus on growing their business.

**Simple** — With easy-to-deploy design, EnGenius Managed Multi-Gigabit & Gigabit Switches are operational within minutes. Organizations with limited IT support and budgets can create a reliable, efficiently managed network in no time.

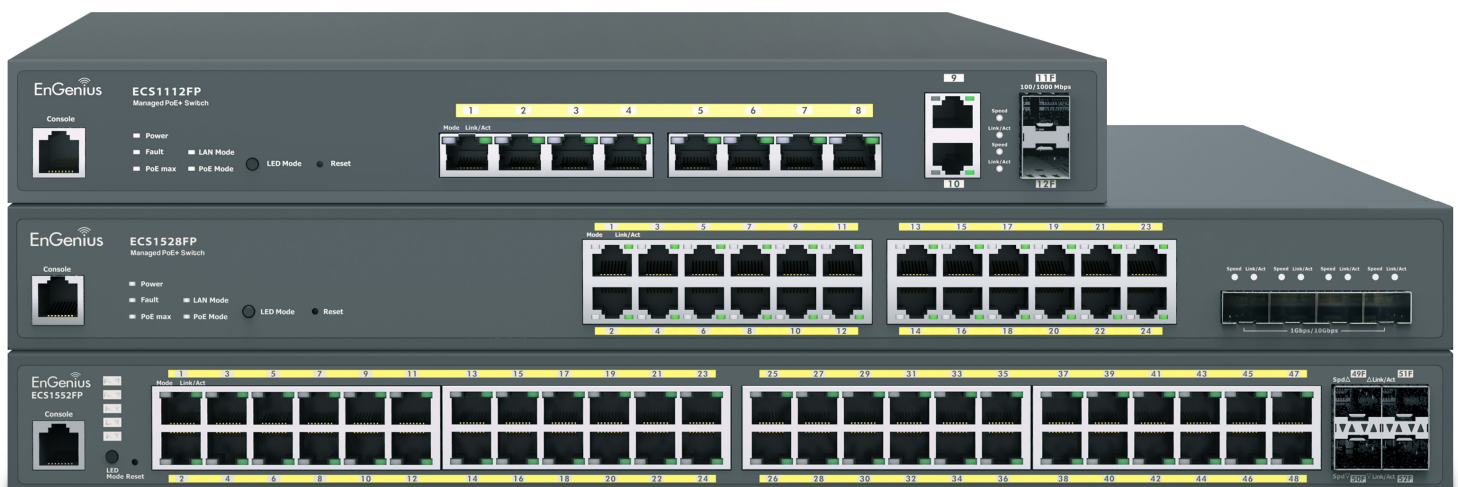
**Flexible** — Choose the port and physical configuration that meets your network and space requirements for optimal performance. Select the management method most effective for the network – locally manage, remotely and locally manage or Cloud manage.

**Reliable** — EnGenius Cloud's reliable gigabit and multi-gigabit access for networked devices reduces delays that interrupt communications.

**Secure** — With EnGenius Cloud, your network devices are protected with two-factor authentication and non-sequential serial numbers and MAC address verification to ensure only authorized cloud devices are on the network.

### Features & Benefits

- Full-Featured Layer 2+ Switching
- 8-48 10/100/1000/2500 Base-T GbE Ports
- 802.3bt/at/af PoE++ Ready on All Ports with 55 - 740W PoE budgets
- 1-10 Gbps SFP+ Slots Extend Connectivity via Fiber Uplinks, Redundancy, and Failover
- Real-Time System Metrics, Deep-Dive Analytics, and Remote Configurations
- Quick-Scan Device Register, Remote Monitoring, and Troubleshooting
- Network Troubleshooting, Monitoring, and Email Alerts
- Advanced View Displays Network Topology with Devices and Relationships
- Hybrid Switch Supports Multiple Management Options



# Benefits to Help Grow Your Business

## Increased Flexibility for Network Design

Select either 8-, 24-, or 48-Multi-Gigabit or Gigabit ports and Power-over-Ethernet (PoE++)-ready Layer 2+ switches with 1-10 Gbps SFP+ ports. Cloud Managed Switch model options also include desktop and rack mountable, fanless, and SmartFan designs.

## Enhanced Network Performance

EnGenius' full-featured Layer 2+ multi-gigabit and gigabit switches improve network speed and performance by controlling the available bandwidth speed for devices, such as access points, at the port level. By providing the available speed needed in areas where bandwidth needs vary, such as conference rooms and lobbies, EnGenius switches provides faster overall network performance.

## Optimized Network Devices

EnGenius switches allow businesses to optimize the installation and power management of network devices, such as Wi-Fi 6 wireless access points, AV controllers, PTZ Cameras, digital signage, and lighting. By providing 802.3bt/at/af PoE++ power and data on all ports, companies can regulate power budgets according to device requirements and remotely power cycle individual ports.

## High-Speed Gigabit with Fiber

The switch's 1 or 10 Gbps SFP+ slot options connect wired network segments throughout buildings extending beyond the limitations of Ethernet cabling. By reducing delays, businesses experience more consistent and uninterrupted communications.

## Keep Up with Today's Technologies

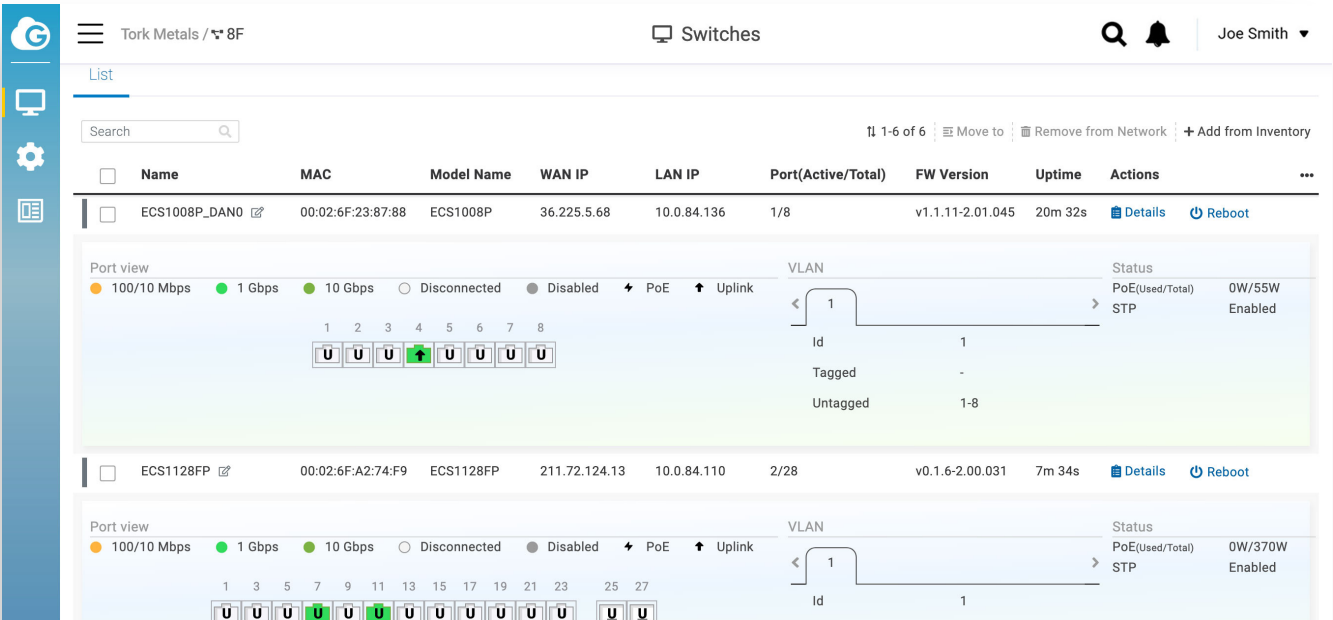
High-performing access points supporting faster speeds and hundreds of concurrent users, now support 2.5 Gbps Ethernet connections. Multi-Gig switches using the existing cabling can support up-to 2.5 gigabit per a port and automatically detect the speed needed by the connected end device. Utilize the higher PoE++ (802.3bt) standard on any port for the growing demand of high powered devices like Wi-Fi 6 wireless access points, AV controllers, PTZ Cameras, digital signage, and lighting.

## Increased Access Control and Security

Protect the network with 802.1X port-based client authentication with dynamic VLAN and security through a RADIUS server. Utilizing Access Control Lists (ACLs), administrators can see who has access to network segments while screening traffic from unauthorized MAC or IP addresses. By establishing a guest VLAN to grant and limit Internet resources for visitors, guests can use the network while also keeping the network secure.

## Improved VLAN/Voice and Quality of Service

Segment the network by departments or traffic types for increased performance and security with 802.1Q VLAN statically or dynamically. While 802.1p Class of Service prioritizes compliant VoIP and video traffic ensuring bandwidth intensive, time-sensitive data is forwarded immediately for clear, smooth voice and video delivery.



## Provides In-Depth Network Visibility

The Network Topology View automatically maps the network deployment and displays device relationships across the infrastructure. No more manual tracking required — simply use Network Topology view to troubleshoot switches or access points directly from the cloud management interface. Grab high-level information by hovering over the device icon or click on details to take you right to the cloud device page.

## Every Cloud Device is Secure and Protected by Advanced Authentication

With EnGenius Cloud, your network devices are protected with two-factor authentication and non-sequential serial numbers and MAC address verification to ensure only authorized cloud devices are on the network. Once devices are authenticated, a secure tunnel is established between the device and the cloud management system with a unique certificate to encrypt transmissions.

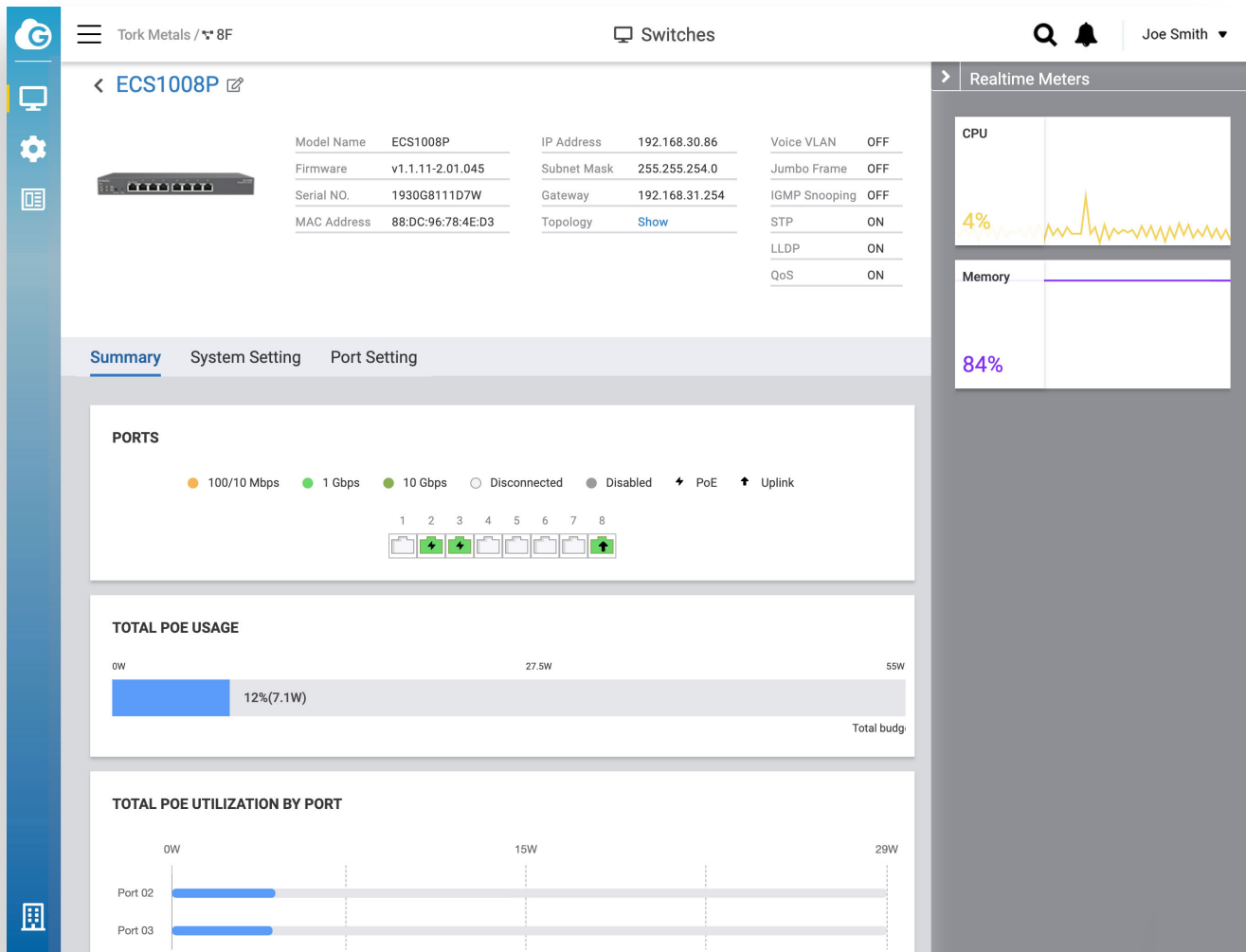
## Cloud Improves Setup, Registry and Device Management of Multi-Gig & Gigabit Switches

For quick and simple setup manage your switches using EnGenius Cloud. Scan and assign switches into an organization and network for device registration and configuration using the EnGenius Cloud app. Simply refine configurations under the list view for switches in the switch's detail page after initial setup and registration.

EnGenius Cloud's dashboard provides a quick health check status of all your switches in an organization and network. Simply click on the switch picture from the dashboard to dive into detailed switch configurations and system information.

Conveniently & easily monitor and troubleshoot all of your network switches in one location. Quickly review switch list to compare resources and check overall configurations with other switches within the network. Further access individual switch information by clicking detail view to get real-time meters and configure system and port settings for easy setup and fine tuning of switches.

Set maintenance schedules across times zones to improve up-time, enable remote system log to track system modifications or configuration changes, establish event-based email alerts and receive push notifications via the EnGenius Cloud app.



## Simplified Switch Management, Visibility, and Troubleshooting

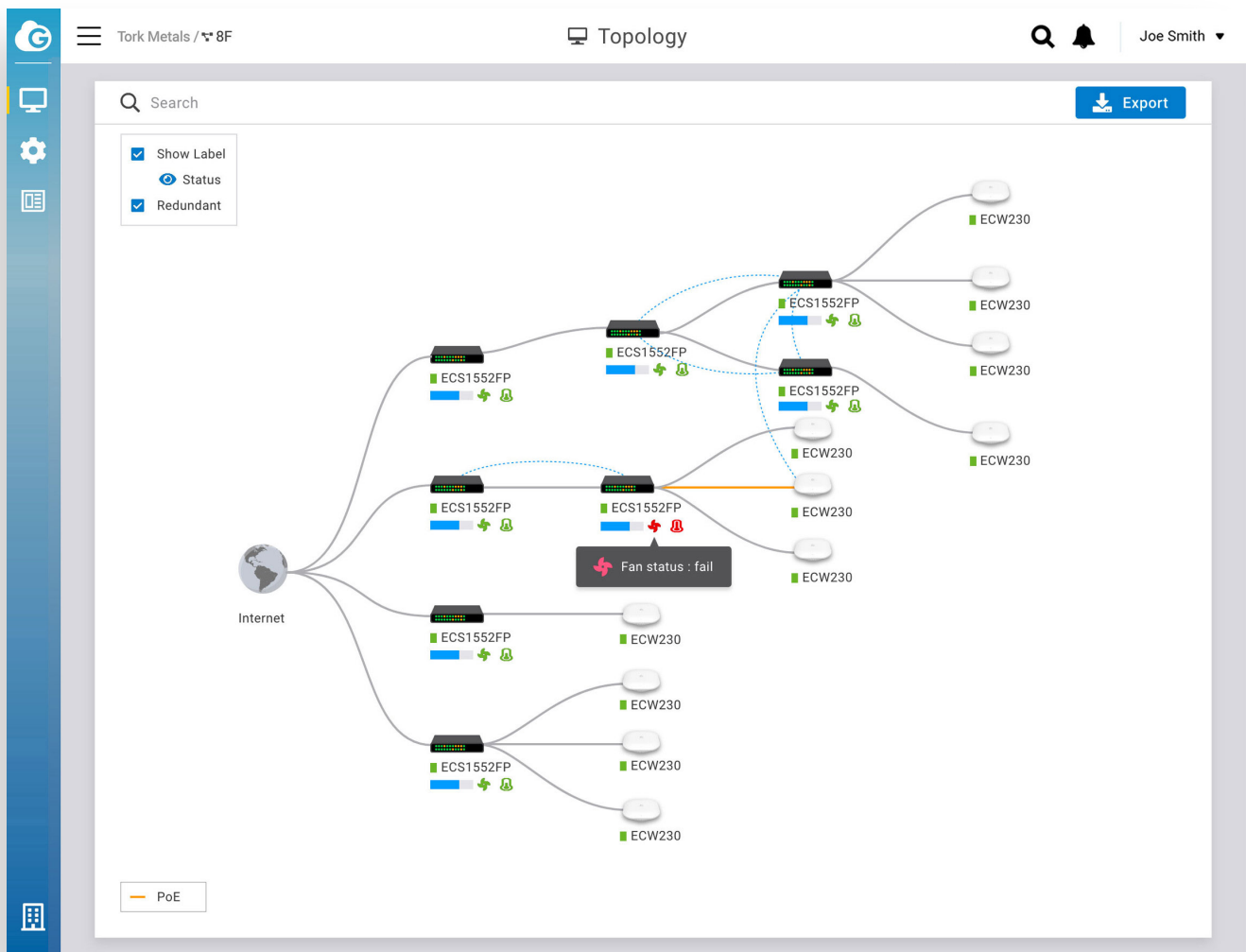
By using multiple methods to manage switches, EnGenius decreases administration time through remote management, visibility, and troubleshooting. Select the most effective management approach based on network architecture, administrative permissions, technical aptitude, or even budget.

**Locally Manage** – manage each EnGenius switch in a standalone setup from its intuitive user interface that provides full access into all the Layer 2+ switching features.





**Remote and Local Management** – manage up to **100** EnGenius switches with the plug-and-play SkyKey device, which provides on-premises and subscription-free cloud network management capabilities.

**Remote & Local Management** – manage **1,000s** of EnGenius switches with ezMaster network software, an on-premises solution utilizing a Virtual Machine server or a private-cloud AWS account that easily configures and maintains multiple customer sites and thousands of devices via ezMaster network management software, all with no license or subscription fees.





**Cloud Management** – remotely or locally manage an unlimited number of EnGenius switches with EnGenius Cloud, a true license-free cloud management solution that provides quick deployment from anywhere, deep-dive analytics to review system performance, and custom device alerts through a simple to use smart phone app.



## EnGenius Cloud-Managed 48-Port and 24-Port Switches

				
Models	ECS1552FP	ECS1552	ECS1528FP	ECS1528
Network Standards	802.3 10Base-T Ethernet 802.3u 100Base-TX Ethernet 802.3ab 1000Base-T Ethernet 802.3x Full-Duplex Flow Control	802.3u 100Base-TX Ethernet 802.3ab 1000Base-T Ethernet 802.3bz 2500Base-T Ethernet 802.3x Full-Duplex Flow Control	802.3 10Base-T Ethernet 802.3u 100Base-TX Ethernet 802.3ab 1000Base-T Ethernet 802.3x Full-Duplex Flow Control	802.3 10Base-T Ethernet 802.3u 100Base-TX Ethernet 802.3ab 1000Base-T Ethernet 802.3x Full-Duplex Flow Control
10/100/1000 Base-T	48	48	24	24
10/100/1000/2500 Base-T	N/A	N/A	N/A	N/A
10/100/1000/2500 Base-T PoE Ports	N/A	N/A	N/A	N/A
10/100/1000 SFP Ports	N/A	N/A	N/A	N/A
10/100/1000/10000 SFP+ Ports	4 x 10G	4 x 10G	4 x 10G	4 x 10G
Rackmount	19" 1U	19" 1U	19" 1U	19" 1U
Total PoE Budget	740W	N/A	410W	N/A
PoE+ Capable Ports	1-48	N/A	1-24	N/A
Switching Capacity	176 Gbps	176 Gbps	128 Gbps	128 Gbps
Forwarding Mode	Store-and-forward	Store-and-forward	Store-and-forward	Store-and-forward
MAC Address Table	32k	32k	16k	16k
Packet Buffer Memory	2 MB	2 MB	2 MB	2 MB
Power Source	100 to 240 VAC 50/60Hz	100 to 240 VAC 50/60Hz	100 to 240 VAC 50/60Hz	100 to 240 VAC 50/60Hz
Full Load Power	745.61 Watts	745.61 Watts	412.26 Watts	412.26 Watts
VLANs	VID from 1-4094 (Max. 256 groups)	VID from 1-4094 (Max. 256 groups)	VID from 1-4094 (Max. 256 groups)	VID from 1-4094 (Max. 256 groups)

## EnGenius Cloud-Managed 8-Port Switches

				
Models	ECS2512FP	ECS2512	ECS1112FP	ECS1008P
Network Standards	802.3u 100Base-TX Ethernet 802.3ab 1000Base-T Ethernet 802.3bz 2500Base-T Ethernet 802.3x Full-Duplex Flow Control	802.3u 100Base-TX Ethernet 802.3ab 1000Base-T Ethernet 802.3bz 2500Base-T Ethernet 802.3x Full-Duplex Flow Control	802.3 10Base-T Ethernet 802.3u 100Base-TX Ethernet 802.3ab 1000Base-T Ethernet 802.3x Full-Duplex Flow Control	802.3 10Base-T Ethernet 802.3u 100Base-TX Ethernet 802.3ab 1000Base-T Ethernet 802.3x Full-Duplex Flow Control
10/100/1000 Base-T PoE Ports	N/A	N/A	10	8
10/100/1000/2500 Base-T	N/A	8	N/A	N/A
10/100/1000/2500 Base-T PoE Ports	8	N/A	N/A	N/A
10/100/1000 SFP Ports	N/A	N/A	2 X 1G	N/A
10/100/1000/10000 SFP+ Ports	4 x 10G	4 x 10G	N/A	N/A
Rackmount	19" 1U	19" 1U	19" 1U	19" 1U
Total PoE Budget	740W	N/A	410W	N/A
PoE+ Capable Ports	1-48	N/A	1-24	N/A
Switching Capacity	176 Gbps	176 Gbps	128 Gbps	128 Gbps
Forwarding Mode	Store-and-forward	Store-and-forward	Store-and-forward	Store-and-forward
MAC Address Table	32k	32k	16k	16k
Packet Buffer Memory	2 MB	2 MB	2 MB	2 MB
Power Source	100 to 240 VAC 50/60Hz	100 to 240 VAC 50/60Hz	100 to 240 VAC 50/60Hz	100 to 240 VAC 50/60Hz
Full Load Power	745.61 Watts	745.61 Watts	412.26 Watts	412.26 Watts
VLANs	VID from 1-4094 (Max. 256 groups)	VID from 1-4094 (Max. 256 groups)	VID from 1-4094 (Max. 256 groups)	VID from 1-4094 (Max. 256 groups)

Technical Specifications

Port Standards

<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP</b>
802.3 10Base-T Ethernet
802.3u 100Base-TX Ethernet
802.3ab 1000Base-T Ethernet
802.3x Full-Duplex Flow Control
<b>ECS2512/ECS2512FP</b>
802.3 10Base-T Ethernet
802.3u 100Base-TX Etherne
802.3ab 1000Base-T Ethernet
802.3bz 2500Base-T Ethernet
802.3x Full-Duplex Flow Control

Network Ports

<b>ECS1008P</b>
8 10/100/1000 Mbps Ports
<b>ECS1112FP</b>
10 10/100/1000 Mbps Ports + 2x SFP Ports
<b>ECW1528/ECS1528FP</b>
24 10/100/1000 Mbps Ports + 4x SFP+ Ports
<b>ECS1552/ECS1552FP</b>
48 10/100/1000 Mbps Ports + 4x SFP+ Ports
<b>ECS2512/ECS2512FP</b>
8 10/100/1000/2500 Mbps Ports + 4x SFP+ Ports

Switching Capacity

<b>ECS1008P</b>
16Gbps
<b>ECS1112FP</b>
24Gbps
<b>ECW1528/ECS1528FP</b>
128Gbps
<b>ECS1552/ECS1552FP</b>
176Gbps
<b>ECS2512/ECS2512FP</b>
120Gbps

SDRAM

<b>ECS1008P/ECS1112FP</b>
256MB
<b>ECW1528/ECS1528FP/ECS1552/ECS1552FP/ ECS2512/ECS2512FP</b>
512MB

Flash Memory

<b>ECS1008P/ECS1112FP</b>
32MB
<b>ECW1528/ECS1528FP/ECS1552/ECS1552FP/ ECS2512/ECS2512FP</b>
128MB

PoE Capable Ports

<b>ECS1008P</b>
1-8 (802.3af only)
<b>ECS1112FP</b>
1-8 (802.3at/af)
<b>ECS1528FP</b>

1-24 (802.3at/af)
<b>ECS1552FP</b>
1-48 (802.3at/af)
<b>ECS2512FP</b>
1-24 (802.3bt/at/af)
<b>Total PoE Budget</b>
<b>ECS1008P</b>
55W
<b>ECS1112FP</b>
130W
<b>ECS1528FP</b>
410W
<b>ECS1552FP</b>
740W
<b>ECS2512FP</b>
240W

Power Source

<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
100 ~ 240VAC, 50-60Hz

Physical Interface

LED Indicators

<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
Power LED
Fault LED
PoE Max LED
LAN Mode LED
PoE Mode LED

Ports

<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
Link/Activity/Speed (per Ethernet port)
Link/Activity/Speed (per SFP slot)

Software Features(L3 Feature)

Multiple IP Interface

<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
20 IPv6 address

ARP Table

<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
Max. 192 ARP entries

Static ARP

<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
Static 192 ARP entries

IPv4 Static Route

<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
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Max. 63 entries
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IPv6 Static Route

<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
Max. 21 entries

Software Features(L2 Feature)

Network Management

<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
EnGenius Cloud
ezMaster
Local Web GUI

MAC Address Table

<b>ECS1008P/ECS1112FP</b>
8K
<b>ECS1528/ECS1528FP/ECS2512/ECS2512FP</b>
16K
<b>ECS1552/ECS1552FP</b>
32K

Jumbo Frame

<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
9K

Multicast Group

<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
Max 256 groups

MLD Snooping

<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
MLD Snooping: v1

QoS-Number of Priority Queues Supported

<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
Queue 8

Trust Mode

<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
Cos/802.1p
DSCP
CoS/802.1p-DSCP

Scheduling Mechanism

<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
Strict / WRR/ Strict + WRR

Bandwidth Control

<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
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Technical Specifications continued

Port-based bandwidth control (Ingress/Egress)
<b>Port Security</b>
<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
Max. 256 Entries
<b>Access Control List (ACL)</b>
<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
MAC Based ACL
IPv4/IPv6 Based ACL
ACL Binding
Time base ACL
<b>Web Graphical User Interface(GUI)</b>
<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
HTTP IPv4 / IPv6
HTTPS IPv4 / IPv6
<b>SSL Certificate</b>
<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
Certificate/Key Import
<b>SNMP</b>
<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
SNMP v1/v2c/v3 Support
<b>RMON</b>
<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
RMON 1,2,3,9
<b>System Time</b>
<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
Time Setting/Daylight saving
<b>Common L2 Features</b>
<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
802.1d Spanning tree
Loopback Detection
Multicast Filitering
IGMP Multicast Forwarding
IGMP Snooping
MLD Multicast Forwarding
802.1Q VLAN tagging
802.3x flow control
802.3ad Link Aggregation
IPv4 DHCP Relay
IPv4 DHCP Snooping
IPv4 DHCP Snooping Source MAC Address Check-up
ARP Inspection
ARP Packet Validation (additional validation checks)

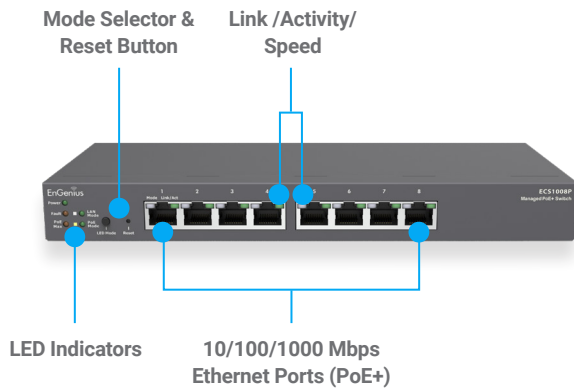
Voice VLAN
Port-based VLAN
Protocol-Based VLAN
CoS Mapping
802. 1X Radius Authentication Protocol
IPv4 Settings
IPv6 Settings
IEEE 802. 3az Energy Efficieent Ethernet (EEE)
Command Line Interface (CLI)
SSH Server
Telnet Server
TFTP Client
Comfoguration Upgrade/ Backup
Simple Network Time Protocol (SNTP)
SYSLOG
802.1d Spanning tree
<b>Environmental &amp; Physical</b>
<b>Temperature Range</b>
<b>ECS1008P</b>
Operating: 32°F to 104°F (0°C to 40°C)
<b>ECS1112FP/ECW1528/ECS1528FP/ECS1552/ECS- 1552FP/ECS2512/ECS2512FP</b>
Operating: 32°F to 122°F (0°C to 50°C)
<b>Humidity (Non-Condensing)</b>
<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
Operating: 5% - 95%
<b>Package Contents</b>
<b>ECS1008P</b>
1x ECS Managed Gigabit Switch
1x Quick Installation Guide
1x Power Adapter
1x Power Cord
1x Wall Mount Kit
1x Ground Screw Set
<b>ECS1112FP/ECW1528/ECS1528FP/ECS1552/ ECS1552FP</b>
1x ECS Managed Gigabit Switch
1x Quick Installation Guide
1x Power Cord
1x RJ45 Console Cable
1x Rack Mount Kit
<b>ECS2512FP/ECS2512</b>
1x ECS Managed Multi-Gigabit Switch
1x Quick Installation Guide
1x Power Cord
1x RJ45 Console Cable
1x Rack Mount Kit
<b>Device Dimensions &amp; Weights</b>
<b>ECS1008P</b>
Weight: 1.36 lbs. (620 g)
Length: 9.44" (240 mm)
Width: 4.13" (105 mm)

Height: 1.06" (27 mm)
<b>ECS1112FP</b>
Weight: 4.4 lbs. (1.9 kg)
Width: 13" (330.20 mm)
Length: 9" (228.60 mm)
Height: 1.73" (43.94 mm)
<b>ECS1528</b>
Weight: 5.93 lbs. (2.69 kg)
Width: 17.32" (440 mm)
Depth: 7.87" (200 mm)
Height: 1.73" (44 mm)
<b>ECS1528FP</b>
Weight: 8.5 lbs. (3.9 kg)
Width: 17.32" (440 mm)
Depth: 10.23" (260 mm)
Height: 1.73" (44 mm)
<b>ECS1552</b>
Weight: 8.17 lbs. (3.71kg)
Width: 17.32 lbs. (440 mm)
Length: 10.23 lbs. (260 mm)
Height: 1.73 lbs. (44 mm)
<b>ECS1552FP</b>
Weight: 10.5 lbs. (4.76 kg)
Width: 17.32" (440 mm)
Length: 10.23" (260 mm)
Height: 1.73" (44 mm)
<b>ECS2512</b>
Weight: 5.7lbs (2.6 kg)
Width: 9.05" (230 mm)
Length: 12.99" (330 mm)
Height: 1.73" (44 mm)
<b>ECS2512FP</b>
Weight: 5.7lbs (2.6 kg)
Width: 9.05" (230 mm)
Length: 12.99" (330 mm)
Height: 1.73" (44 mm)
<b>Warranty</b>
<b>ECS1008P/ECS1112FP/ECW1528/ECS1528FP/ ECS1552/ECS1552FP/ECS2512/ECS2512FP</b>
2 year

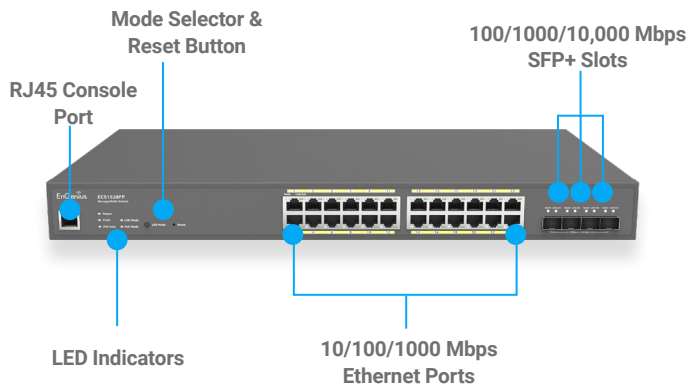


## Desktop

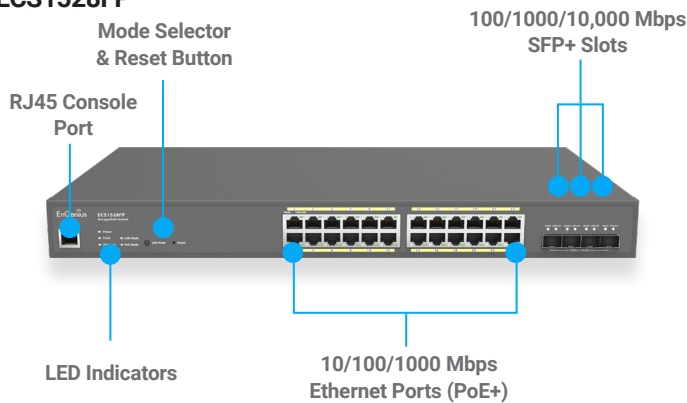
### ECS1008P



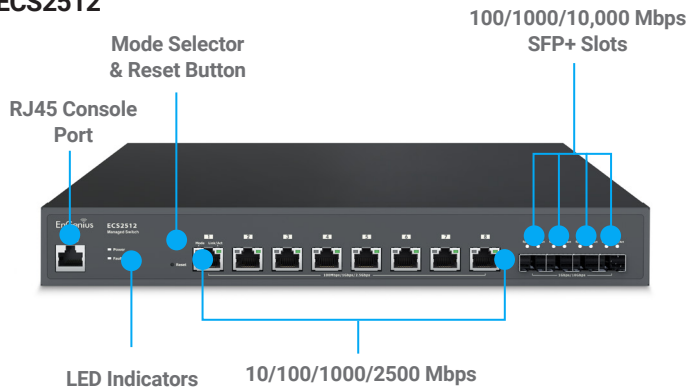
### ECS1528



### ECS1528FP

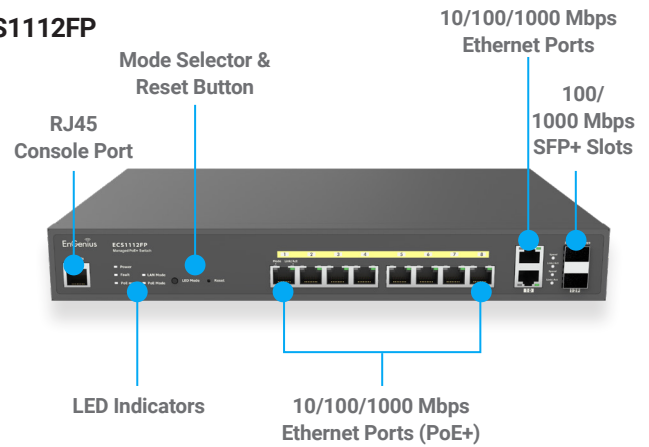


### ECS2512

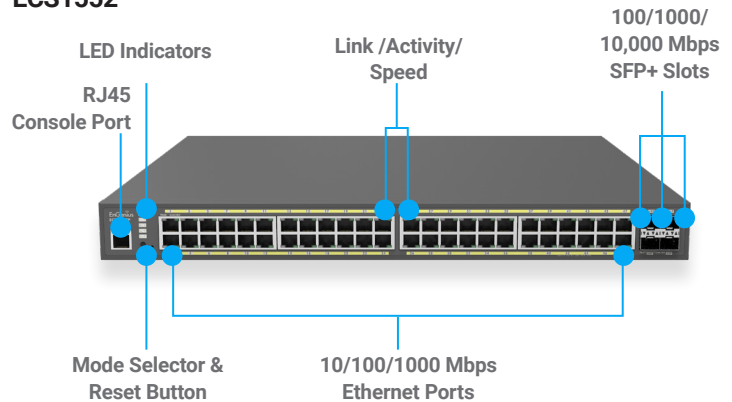


## Rackmount

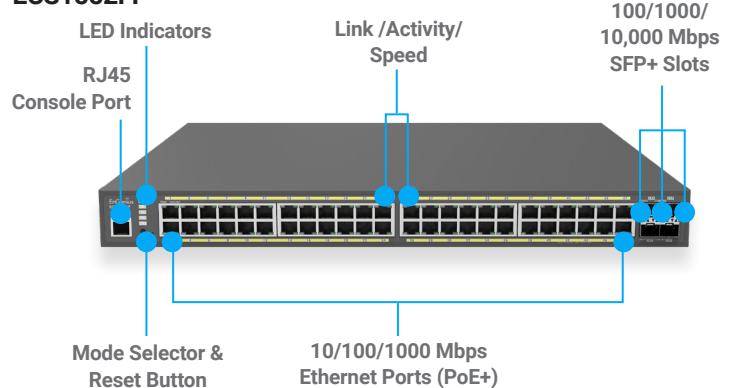
### ECS1112FP



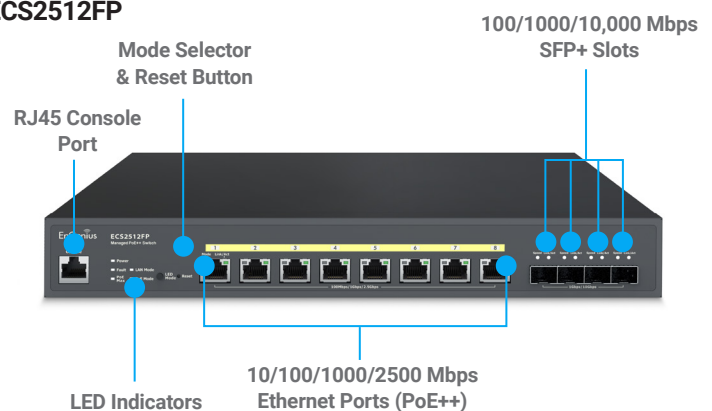
### ECS1552



### ECS1552FP



### ECS2512FP



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Version 1.01 5/22/2020

Maximum data rates are based on IEEE 802.11 standards. Actual throughput and range may vary depending on distance between devices or traffic and bandwidth load in the network.

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