



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.

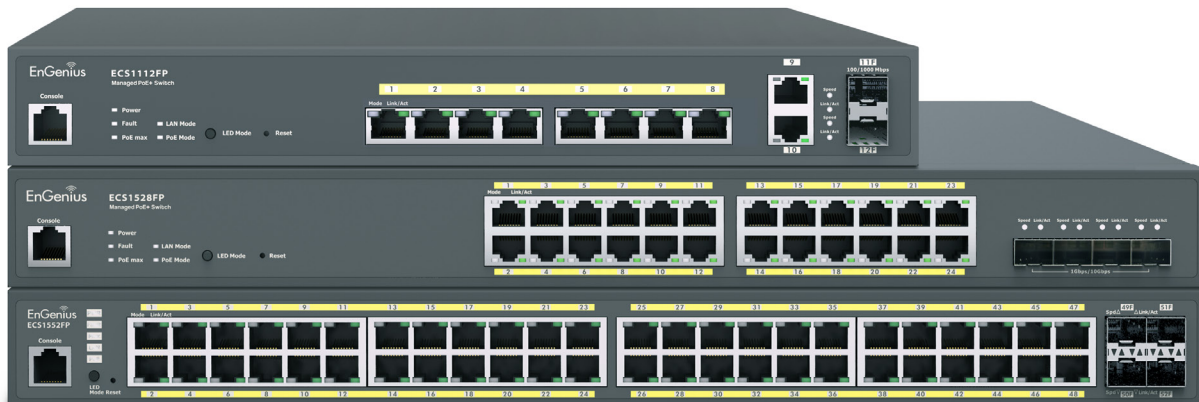
Flexible – Choose the port and physical configuration that meets your network and space requirements for optimal performance. Select the management method most effective for the network – locally manage, remotely and locally manage or Cloud manage.

Reliable – EnGenius Cloud’s reliable gigabit and multi-gigabit access for networked devices reduces delays that interrupt communications. EnGenius uses its decades of manufacturing and software development experience, long-lasting chipset vendor relationships, and tight manufacturing process to provide reliable hardware.

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 10/100/1000/2500/5000/10000 Base-T GbE ports
- 802.3bt/at/af PoE++ ready on all ports with 55 - 740W PoE budgets
- 1-10 Gbps SFP+ extends connectivity and provides redundancy, and failover
- PoE Extended Mode extends PoE range up to 250 meters
- PD Lifeguard provides real-time detection and auto-reboot PoE power
- Continuous PoE power supplies PoE power even during switch upgrades
- Switch Alert system so teams can be proactively notified of potential issues
- Quick-scan device register, remote monitoring, and troubleshooting
- Hybrid switch supports multiple management options



EnGenius now offers a 2 year factory warranty for all cloud products

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.

Built-in Advanced PoE to Empower Surveillance.

EnGenius provides reliable, high-quality video streaming at long distances, to enable real-time monitoring and recovery of surveillance if the camera goes down, and to keep the power supply uninterrupted during switch firmware upgrades. EnGenius offers a series of switches with advanced PoE features designed for reliable, secure, high-tech surveillance.

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 1, 2.5, 3.5, and 5 Gbps Ethernet connections. Multi-Gig switches using the existing cabling can support up-to 1, 2.5, 5, and 10 Gbps 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.

The screenshot displays the EnGenius network management interface. At the top, it shows 'EnGenius / EnGenius USA' and 'Switches'. Below this is a 'List' section with a search bar. The main content is a table of switches with columns for Name, Serial Number, MAC, Model Name, WAN IP, LAN IP, and Port. Each switch entry includes a 'Port View' section showing a grid of port status indicators (e.g., 100/10 M, 1 G, 2.5 G, 5 G, 10 G) and a legend for Disconnected, Disabled, PoE, Uplink, and Blocked. The switches listed are:

Name	Serial Number	MAC	Model Name	WAN IP	LAN IP	Port
IT/Rack#2/SW#1	2050H4F1KMEK	88:DC:96:89:E8:73	ECS155ZFP	50.238.239.222	10.1.3.201	20/5
IT/Rack#2 SPARE	2030H4F112TK	88:DC:96:86:E6:14	ECS155ZFP	50.238.239.222	10.1.1.25	1/52
Guard/cab#17 SW#1	2010H2F11REX	88:DC:96:85:31:38	ECS1528FP	50.238.239.222	10.1.3.217	4/28
Fertigation CAB#14	20A0H2F1166X	88:DC:96:8E:1F:A6	ECS1528FP	50.238.239.222	10.1.3.214	4/28
Building#2/SW#1	19A0H2F1145J	88:DC:96:82:17:5D	ECS1528FP	50.238.239.222	10.1.3.221	1/28

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.

The screenshot displays the EnGenius Cloud management interface for a 10 Gigabit Switch. The interface is organized into several sections:

- Header:** Shows the EnGenius logo, user information (EnGenius / EnGenius USA), and navigation options (Switches > 10 Gigabit Switch).
- Device Information:** A table listing key details for the switch:

Model Name	EC55512FP	IP Address	192.168.254.19	Voice VLAN	OFF
Firmware	1.1.49	Subnet Mask	255.255.255.0	Jumbo Frame	OFF
Serial NO.	2070L9F11JFQ	Gateway	192.168.254.254	IGMP Snooping	OFF
MAC Address	88:DC:96:8B:8E:9D	Topology	Show	STP	ON
Configuration	Up-to-date	LED Light	On/Off	LLDP	ON
				QoS	ON
- Navigation:** A horizontal menu with tabs for Summary, System Settings, Port Settings, VLAN, Mirror, PoE Scheduling, Link Aggregation, and Logs. 'Reset' and 'Apply' buttons are also present.
- PORTS:** A section showing 12 ports with status indicators (100/10 M, 1 G, 2.5 G, 5 G, 10 G, Disconnected, Disabled, PoE, Uplink, Blocked).
- TOTAL POE USAGE:** A bar chart showing current usage at 2% (9.7W) against a total budget of 420W.
- TOTAL POE UTILIZATION BY PORT:** A bar chart showing utilization across 12 ports, with a total of 15W and a budget of 29W.
- Realtime Meters:** A sidebar on the right displaying CPU usage at 10% and Memory usage at 55% (Cache at 17%).

Simplified Switch Management, Visibility, and Troubleshooting

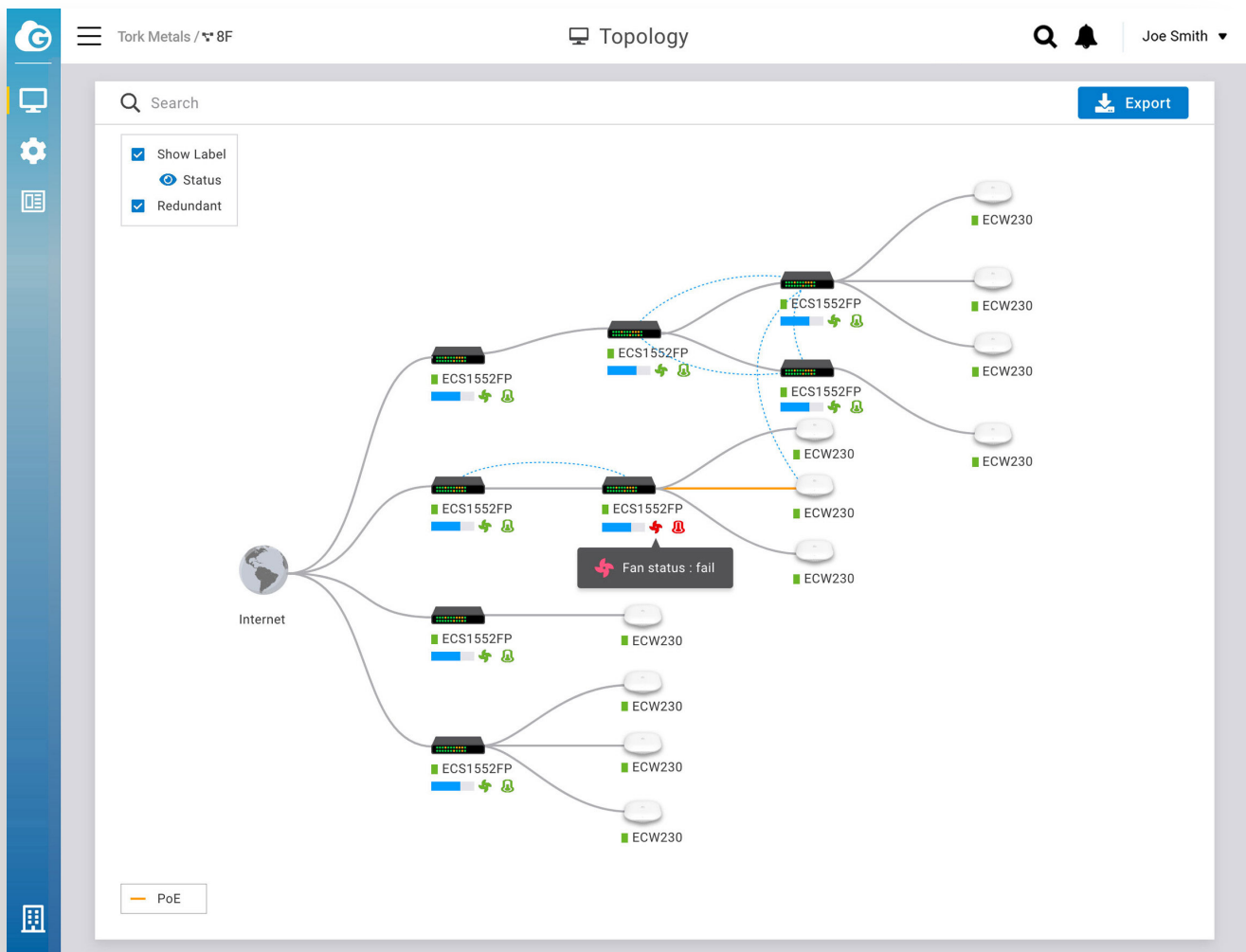
By using multiple methods to manage switches, EnGenius decreases administration time through remote management, visibility, and troubleshooting. Select the most effective management approach based on network architecture, administrative permissions, technical aptitude, or even budget.

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 8-Port Multi-Gig Switches



Models	ECS5512FP	ECS5512	ECS2512FP	ECS2512
Network Standards	802.3 10Base-T Ethernet 802.3u 100Base-TX Ethernet 802.3ab 1000Base-T Ethernet 802.3bz 2500/5000Base-T Ethernet 802.3an 10000Base-T Ethernet 802.3x Full-Duplex Flow Control	802.3 10Base-T Ethernet 802.3u 100Base-TX Ethernet 802.3ab 1000Base-T Ethernet 802.3bz 2500/5000Base-T Ethernet 802.3an 10000Base-T Ethernet 802.3x Full-Duplex Flow Control	802.3 10Base-T Ethernet 802.3u 100Base-TX Ethernet 802.3ab 1000Base-T Ethernet 802.3bz 2500/5000Base-T Ethernet 802.3an 10000Base-T Ethernet 802.3x Full-Duplex Flow Control	802.3 10Base-T Ethernet 802.3u 100Base-TX Ethernet 802.3ab 1000Base-T Ethernet 802.3bz 2500/5000Base-T Ethernet 802.3an 10000Base-T Ethernet 802.3x Full-Duplex Flow Control
10/100/1000 Base-T	N/A	N/A	N/A	N/A
10/100/1000/2500 Base-T	N/A	N/A	8 PoE ++	8
10/100/1000/2500/5000/10000 Base-T	8 PoE ++	8	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	13" 1U	13" 1U	13" 1U	13" 1U
Total PoE Budget	420W	N/A	240W	N/A
PoE+ Capable Ports	1-8 PoE++	N/A	1-8 PoE++	N/A
Switching Capacity	240 Gbps	240 Gbps	120 Gbps	120 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	512 KB	512 KB
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 Consumption	745.61 Watts	745.61 Watts	440.78 Watts	440.78 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 48-Port Switches



Models	ECS1552FP	ECS1552P	ECS1552
Network Standards	802.3 10Base-T Ethernet 802.3u 100Base-TX Ethernet 802.3ab 1000Base-T Ethernet 802.3bz 2500/5000Base-T Ethernet 802.3an 10000Base-T Ethernet 802.3x Full-Duplex Flow Control	802.3 10Base-T Ethernet 802.3u 100Base-TX Ethernet 802.3ab 1000Base-T Ethernet 802.3bz 2500/5000Base-T Ethernet 802.3an 10000Base-T Ethernet 802.3x Full-Duplex Flow Control	802.3 10Base-T Ethernet 802.3u 100Base-TX Ethernet 802.3ab 1000Base-T Ethernet 802.3bz 2500/5000Base-T Ethernet 802.3an 10000Base-T Ethernet 802.3x Full-Duplex Flow Control
10/100/1000 Base-T	48 PoE +	48 PoE +	48
10/100/1000/2500 Base-T	N/A	N/A	N/A
10/100/1000/2500/5000/10000 Base-T	N/A	N/A	N/A
10/100/1000 SFP Ports	N/A	N/A	N/A
10/100/1000/10000 SFP+ Ports	4 x 10G	4 x 10G	4 x 10G
Rackmount	19" 1U	19" 1U	19" 1U
Total PoE Budget	740W	410W	N/A
PoE+ Capable Ports	1-48 PoE+	1-48 PoE+	N/A
Switching Capacity	176 Gbps	176 Gbps	176 Gbps
Forwarding Mode	Store-and-forward	Store-and-forward	Store-and-forward
MAC Address Table	32k	32k	32k
Packet Buffer Memory	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
Full Load Power Consumption	745.61 Watts	745.61 Watts	745.61 Watts
VLANs	VID from 1-4094 (Max. 256 groups)	VID from 1-4094 (Max. 256 groups)	VID from 1-4094 (Max. 256 groups)

EnGenius Cloud-Managed 24-Port Switches



Models	ECS1528FP	ECS1528P	ECS1528FP
Network Standards	802.3 10Base-T Ethernet 802.3u 100Base-TX Ethernet 802.3ab 1000Base-T Ethernet 802.3bz 2500/5000Base-T Ethernet 802.3an 10000Base-T Ethernet 802.3x Full-Duplex Flow Control	802.3 10Base-T Ethernet 802.3u 100Base-TX Ethernet 802.3ab 1000Base-T Ethernet 802.3bz 2500/5000Base-T Ethernet 802.3an 10000Base-T Ethernet 802.3x Full-Duplex Flow Control	802.3 10Base-T Ethernet 802.3u 100Base-TX Ethernet 802.3ab 1000Base-T Ethernet 802.3bz 2500/5000Base-T Ethernet 802.3an 10000Base-T Ethernet 802.3x Full-Duplex Flow Control
10/100/1000 Base-T	24 PoE +	24 PoE +	24
10/100/1000/2500 Base-T	N/A	N/A	N/A
10/100/1000/2500/5000/10000 Base-T	N/A	N/A	N/A
10/100/1000 SFP Ports	N/A	N/A	N/A
10/100/1000/10000 SFP+ Ports	4 x 10G	4 x 10G	4 x 10G
Rackmount	19" 1U	19" 1U	19" 1U
Total PoE Budget	410W	240W	N/A
PoE+ Capable Ports	1-48 PoE+	1-24 PoE+	N/A
Switching Capacity	128 Gbps	128 Gbps	128 Gbps
Forwarding Mode	Store-and-forward	Store-and-forward	Store-and-forward
MAC Address Table	16k	16k	16k
Packet Buffer Memory	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
Full Load Power Consumption	412.26 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)

EnGenius Cloud-Managed 8-Port Switches



Models	ECS1112FP	ECS1008P
Network Standards	802.3 10Base-T Ethernet 802.3u 100Base-TX Ethernet 802.3ab 1000Base-T Ethernet 802.3bz 2500/5000Base-T Ethernet 802.3an 10000Base-T Ethernet 802.3x Full-Duplex Flow Control	802.3 10Base-T Ethernet 802.3u 100Base-TX Ethernet 802.3ab 1000Base-T Ethernet 802.3bz 2500/5000Base-T Ethernet 802.3an 10000Base-T Ethernet 802.3x Full-Duplex Flow Control
10/100/1000 Base-T PoE Ports	10	8
10/100/1000/2500 Base-T	N/A	N/A
10/100/1000/2500/5000/10000 Base-T	N/A	N/A
10/100/1000 SFP Ports	2 X 1G	N/A
10/100/1000/10000 SFP+ Ports	N/A	N/A
Rackmount	13" 1U	N/A
Total PoE Budget	130W	55W
PoE+ Capable Ports	1-8 PoE+	1-8 PoE
Switching Capacity	24 Gbps	16 Gbps
Forwarding Mode	Store-and-forward	Store-and-forward
MAC Address Table	8k	8k
Packet Buffer Memory	512 KB	512 KB
Power Source	100 to 240 VAC 50/60Hz	100 to 240 VAC 50/60Hz
Full Load Power Consumption	228.10 Watts	63.18 Watts
VLANs	VID from 1-4094 (Max. 256 groups)	VID from 1-4094 (Max. 256 groups)

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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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