ECS8854F

Cloud Managed 48x SFP+ + 6x QSFP28 L3 Switch

Introduction

This Quick Start Guide is designed to guide you through the installation and initial configuration of the **CloudSwitch Core 54**, model **ECS8854F**.

> CloudSwitch Core 54
>
> ### Cloud Managed 48x SFP+ + 6x QSFP28 L3 Switch
>
> **Model: ECS8854F**
>
> - 48 × 10G SFP+ ports
> - 6 × 100G QSFP28 uplink ports
> - EnGenius Cloud management support
> - Local Web GUI management support
> - Enterprise Layer 2 / Layer 3 networking capabilities

Content Quick Links

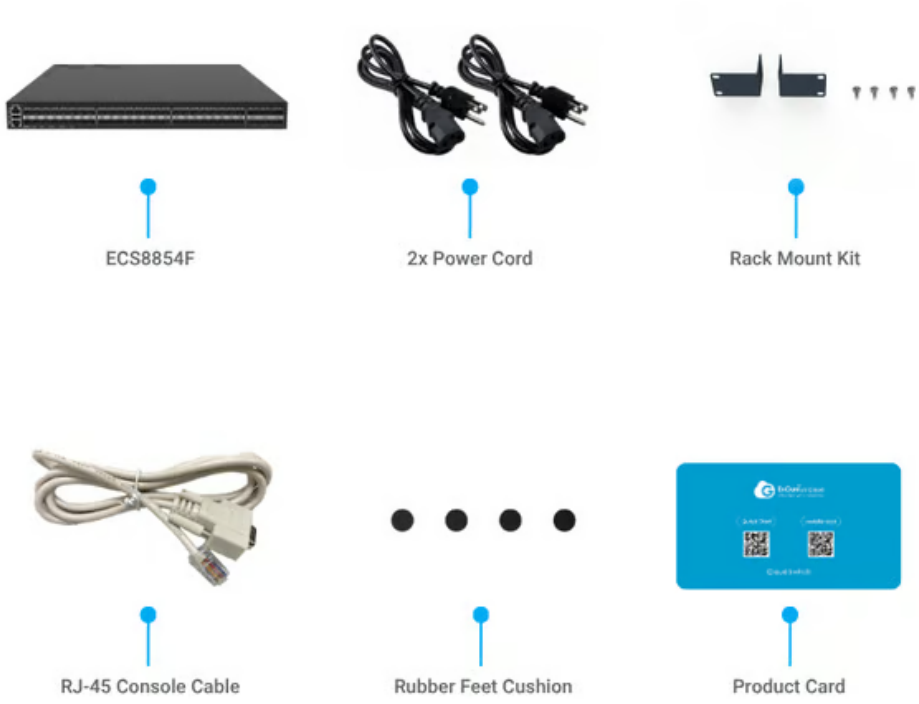
Hardware Installation

Management Plane

Option A: Cloud Management

Option B: Standalone Configuration

Package Contents



System Requirements

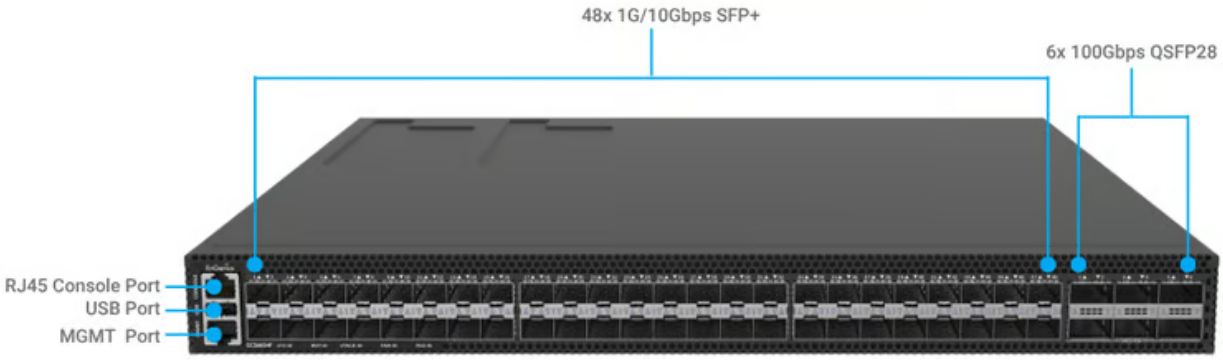
Web Browser

The following web browsers are recommended:

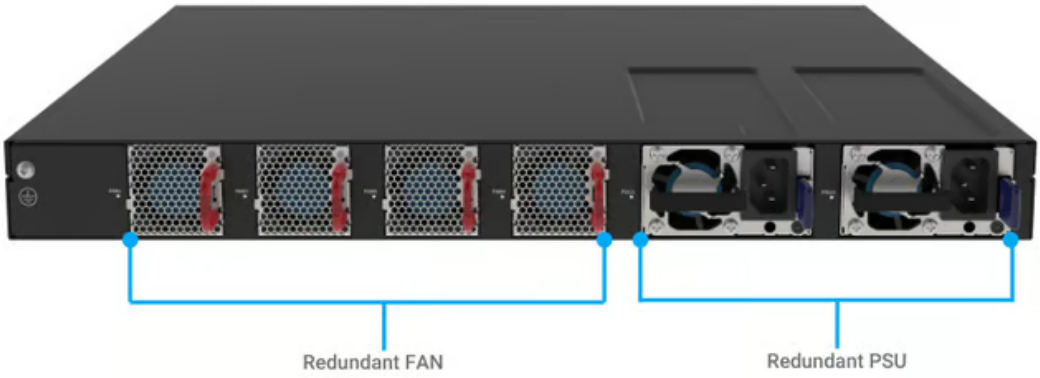
- Google Chrome (57.0.2987.110 and later)
- Microsoft Edge (80.0.361.103 and later)
- Mozilla Firefox (52.0 and later)

Hardware Overview

Front Panel — Ports & Buttons



Rear Panel



LED Behavior Table

Location	LED Indicator	LED Color	LED Behavior	Status
System	System	Green	Blinking Fast	System initializing or abnormal
			Blinking Slow	System operating normally
		Off	–	System abnormal
	FAN	Green	Solid	Fans operating normally
		Off	–	Fan failure detected
	PSU	Green	Solid	Power supply operating normally
		Amber	Solid	Power supply abnormal
SFP+ Port	Link/Act	Green	Solid	Link at 10 Gbps
			Blinking	Data activity at 10 Gbps
		Amber	Solid	Link at 1 Gbps
			Blinking	Data activity at 1 Gbps
		Off	–	No Link
QSFP28 Port	Link/Act	Green	Solid	Link at 100 Gbps, 40 Gbps, or breakout mode
		Green	Blinking	Data activity at 100 Gbps, 40 Gbps, or breakout mode
		Off	–	No Link

Hardware Installation

Before installation, make sure the installation site is clean, dry, well ventilated, and properly grounded.

Installation Environment

Install the switch in a clean, dry, and well-ventilated location. Make sure the operating environment meets the following requirements:

Item	Requirement
Operating Temperature	0°C to 50°C
Storage Temperature	-40°C to 70°C
Relative Humidity	5% to 95%, non-condensing
Power Input	AC 100–240V, 50/60Hz

To ensure reliable operation, keep the switch away from excessive dust, direct sunlight, heat sources, high humidity, and strong electromagnetic interference sources.

Installation Preparation

Before installing the switch, verify that the package contents are complete and prepare the required tools.

Recommended tools:

- Phillips screwdriver
- Flat-head screwdriver
- ESD wrist strap

Use the mounting brackets and screws provided with the product. Standard network cables, fiber cables, and compatible transceivers should be used for installation.

Grounding the Switch

Before powering on the switch, connect the grounding point on the rear panel to a proper earth ground.

Proper grounding helps protect the device from electrical surges, electromagnetic interference, and potential safety risks.

Safety Information

- Follow all safety instructions to prevent device damage or personal injury.
- Do not block ventilation openings.
- Keep the device away from excessive heat, moisture, conductive materials, and flammable materials.
- Ensure proper grounding before operation.

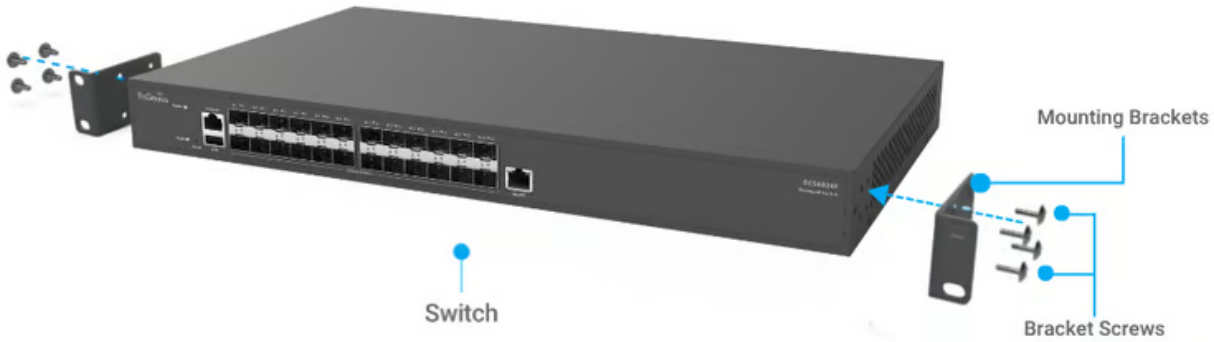
- Use properly grounded power outlets with overload protection.
- Do not open the switch chassis.
- Disconnect power before moving, servicing, or inspecting the device.
- Do not look directly into optical transceiver ports or fiber connectors while the device is operating.
- Use appropriate ESD protection when handling internal components.
- Install the device in a clean and well-ventilated environment.
- Inspect the installation environment periodically to ensure safe operation.
- In an emergency, disconnect power immediately.

> **Caution:**
>
> Electrical faults, such as leakage current, power arcing, improper grounding, overload, or short circuit, may cause electric shock, fire, equipment damage, or personal injury. If an electrical emergency occurs, disconnect power immediately and seek professional assistance.

Rack Mount Installation

The ECS8854F is designed for installation in a standard 19-inch equipment rack.

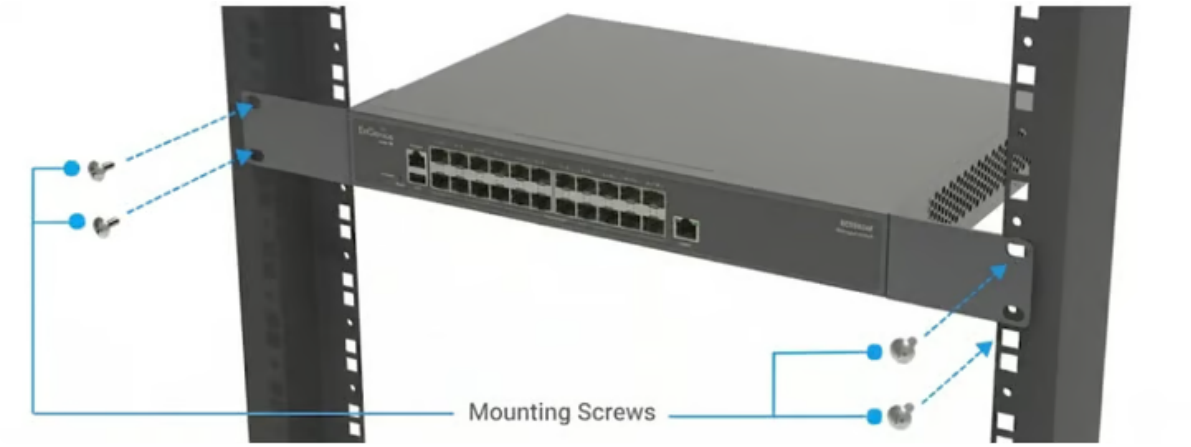
1. Attach the **mounting brackets** to both sides of the switch using the supplied **bracket screws**.



**The display model number may be varied according to different models.*

2. Place the switch into the rack and secure it using rack mounting screws.

3. Ensure sufficient space around the switch for proper airflow and heat dissipation.



**The display model number may be varied according to different models.*

Important:

- Do not block ventilation openings.
- Do not place objects on top of the switch.
- For additional stability, using a rack shelf is recommended.

The mounting brackets are designed to secure the switch to the rack and are not intended to support the full weight of the device. For additional stability, using a rack shelf or tray is recommended.

Power On Device

Before powering on the switch, make sure the power source is properly grounded and the input voltage is within the supported range.

Connect the supplied power cord to the AC power socket on the rear panel of the switch, then plug the other end into a reliable AC power outlet.

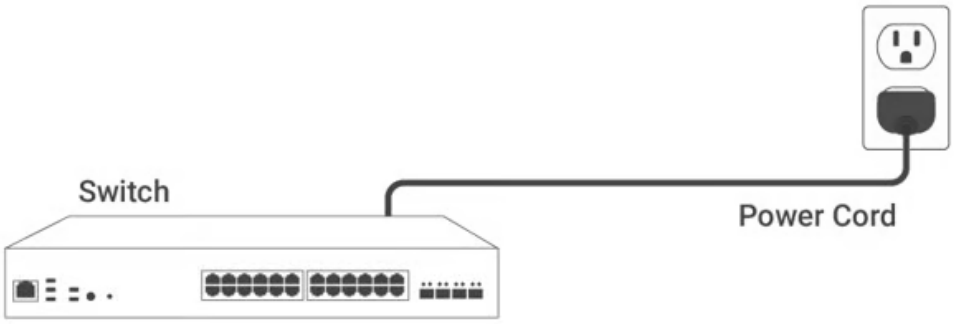
The switch supports the following power input:

Item	Specification
Power Input	AC 100–240V, 50/60Hz

After power is applied, the switch performs a self-test and starts up automatically.

For more reliable operation, using an uninterruptible power supply (UPS) is recommended.

> Improper grounding, unstable input voltage, or power surges may cause system errors or hardware damage.



Management Plane

EnGenius Cloud To-Go provides flexibility to manage your devices based on your network planning and deployment.

Option A: **Cloud Management**

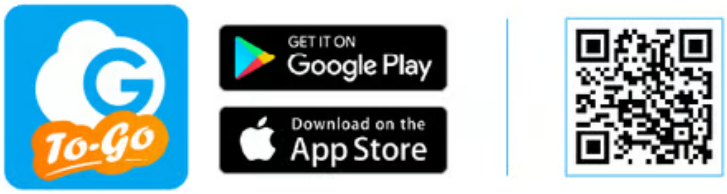
Option B: **Standalone Configuration**

Cloud Management

Manage and monitor the switch through the **EnGenius Cloud To-Go** with a mobile app or through the web portal.

EnGenius Cloud To-Go (iOS/Android)

⬇️ Download the Cloud To-Go mobile app here ↗



Standalone Configuration

You can connect a computer to the same network (subnet) as the switch and use a web browser to access the device's local web GUI for configuration whenever the device is in **Standalone mode**.

For CLI configuration in Standalone mode, please refer to **CLI User Manual** ↗.

Option A: Configure with EnGenius Cloud

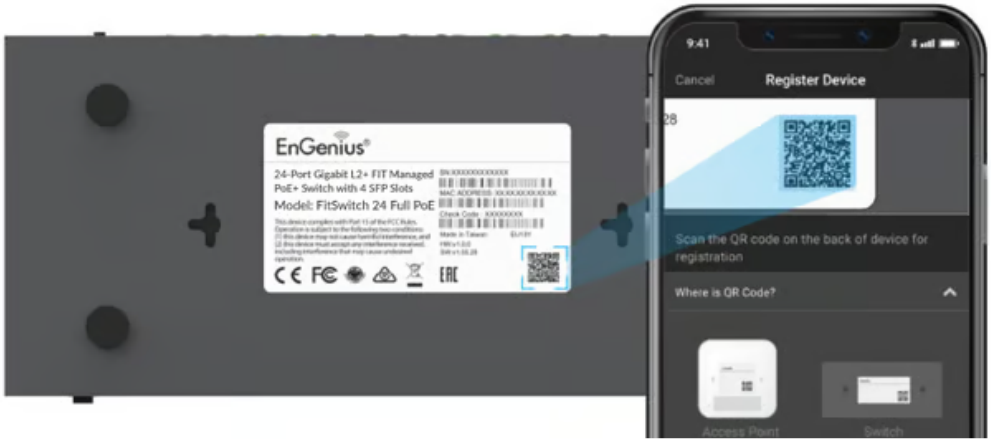
Step1: Register Device

You can register the device either by **Cloud To-Go mobile app** or the **EnGenius Cloud platform.**

Cloud To-Go Mobile App

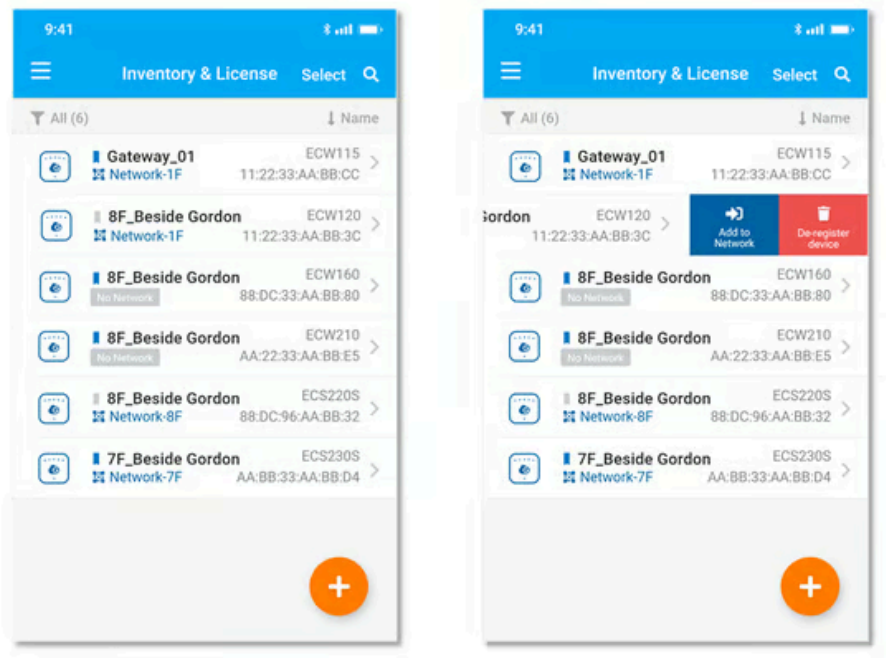
You can register the switch with the **Cloud To-Go app.**

1. Open and log in to the **EnGenius Cloud To-Go** mobile app.
2. Scan the QR code on the back of the device via the app.



3. If the camera successfully scans a QR code, the app will display the Device Information. You could tap "**Register**" to complete the Registration.

4. Registered devices will be shown on the ***Inventory&License*** page. Slide left the device and click "**Add to Network**" add the device to your personalized Network.

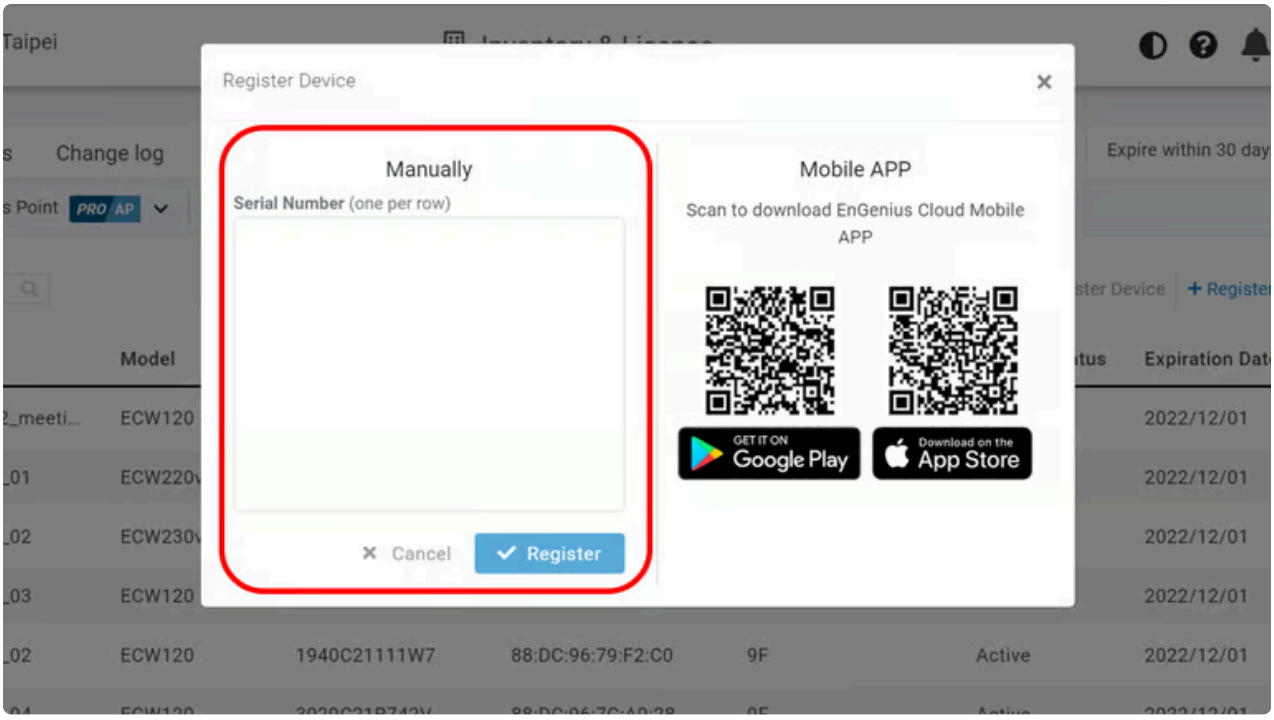


Network: Management domain shared same configurations within EnGenius Cloud.

EnGenius Cloud Platform

1. Login into the **EnGenius Cloud Platform**: https://cloud.engenius.ai/
2. Go to the ***home > Inventory*** page and click "**Register Device**".

3. Enter the **Serial Number** of the device(s) for device registration. Please refer to "User Manual-Registering Devices to Organization". ↗



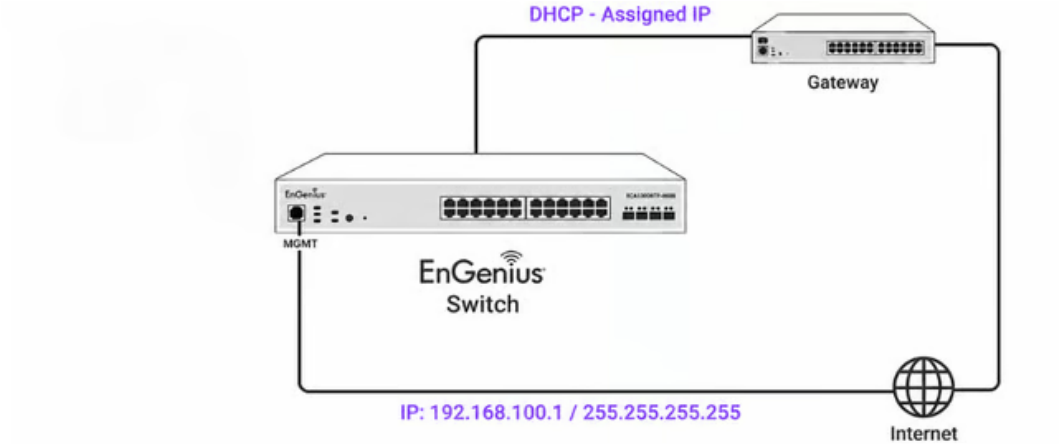
4. Select the registered device and click "**Assign to Network**" to add the device to your personalized Network.

> **Network**: Management domain shared same configurations within EnGenius Cloud.

Step 2: Connect to EnGenius Cloud

The switch supports management access through either the dedicated **MGMT Port** or the **front-panel ports**.

Interface	Default Setting
MGMT Port	IP Address: 192.168.100.1 / 255.255.255.255
Front-Panel Ports	All front-panel ports are members of VLAN 1 by default. The VLAN 1 interface operates as a DHCP client.



Note: The MGMT Port is a dedicated out-of-band management interface and operates independently from all front-panel VLAN interfaces. It does not participate in Layer 2 switching or Layer 3 routing, and traffic is not forwarded between the MGMT Port and any front-panel VLAN interface.

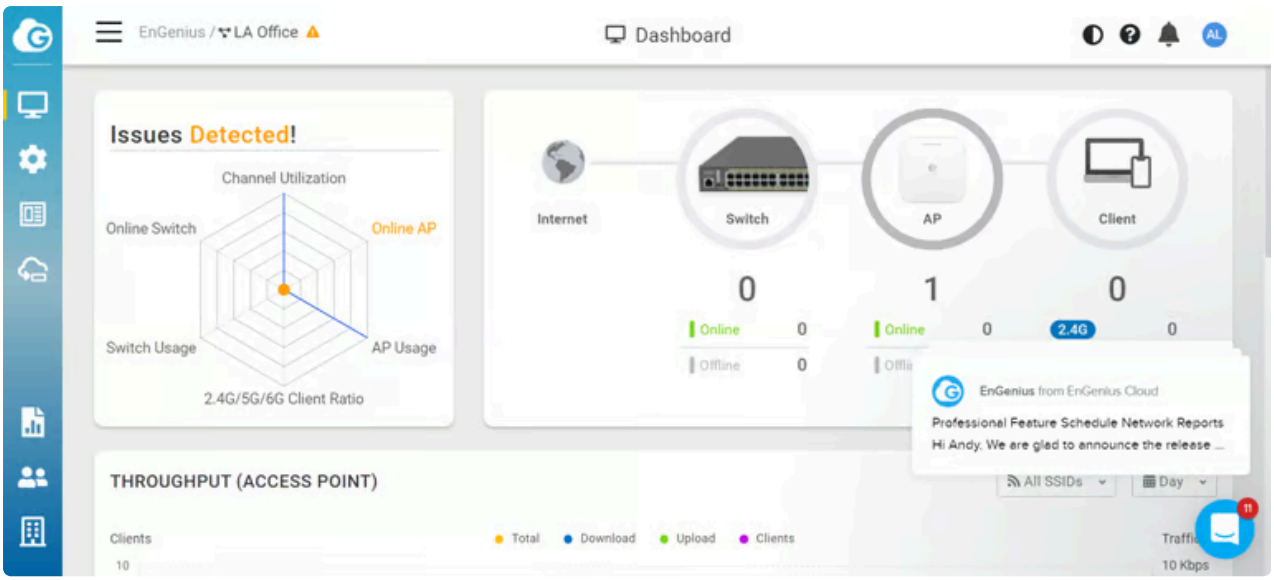
EnGenius Cloud Connected

Once the device is powered on and ready to connect to the Internet, It will automatically download the default configuration settings from EnGenius Cloud for automated provisioning.

When the Switch is connected to the EnGenius Cloud Platform for the first time, it will automatically check the latest available firmware. If the firmware upgrade is required, it might take **8~10 minutes** to complete the process.

Step 3: Manage with the EnGenius Cloud

Log in to the **EnGenius Cloud Platform** ↗ to view the device in the Switch List. Currently, EnGenius Cloud only supports displaying the device in the Switch List and does not support direct configuration. To configure the switch, use the Local Web GUI or access the Remote CLI from the Switch List.
For more information, please refer to User Manual. ↗



Regulatory Statement

Warning:
This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Appendix

Technical Support

Country of Purchase	Service Center	Service Information
North America	Los Angeles, USA	cloud.engenius.ai support@engeniustech.com Local: (+1) 714 432 8668
North America	Canada	cloud.engenius.ai support@engeniustech.com Local: (+1) 905 940 8181
Europe	Netherlands	eusupport@engeniustech.com Local: (+31) 40 8200 887
Asia / Oceania / Africa / CIS / Middle East	Singapore	techsupport-sg@engeniustech.com Local: (+65) 6227 1088
Taiwan	Taiwan, R.O.C	support@engeniustech.com.tw Local: (+886) 933 250 628
Japan	Tokyo, Japan	jp.support@engenius.ai Local: (+81) 3 6809 6608
India	Hyderabad, India	indiasupport@engenuistech.com Ph: +91 76740 47729

Compliance

FCC

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operations.

> **WARNING!**
>
> Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.

CE

This device complies with the essential requirements and other relevant provisions of the directives 2004/108 / EC (EMC); 2014 / 30 / EU (EMC); 2006/95 / EC (LVD); 2014/35 / EU (LVD). The following test methods have been applied in order to prove the presumption of conformity with the essential requirements:

- EN 55035: 2017/A11:2020

- EN 55032:2015+AC:2016, Class A
- EN 55024:2010+A1:2015
- EN 61000-3-2:2014
- EN 61000-3-3:2013
- EN 61000-4-2:2008
- EN 61000-4-3:2006 +A1:2008 +A2:2010
- EN 61000-4-4:2012
- EN 61000-4-5:2014 / AMD1:2017
- EN 61000-4-6:2013
- EN 61000-4-8:2009
- EN 61000-4-11:2004 / AMD1: 2017
- EN 62368-1:2014+A11:2017

IC

The following information applies if you use the product within Canada.

Industry Canada ICES Statement:

- CAN ICES-003 (Issue 6)

Declaration of Conformity

Hereby, EnGenius Networks declare that this product is in compliance with:

- Directives 2004/108 EC (EMC); 2014/30/EU (EMC); 2006/95/EC (LVD); 2014/35/EU (LVD)
- RoHS Directive 2015/863
- WEEE Directive 2012/19/EU
- REACH Regulation

Disclaimer/ Note

- Maximum data rates are based on the IEEE standards. Actual throughput and range may vary depending on many factors including environmental conditions, the distance between devices, radio interference in the operating environment, and the mix of devices in the network.
- Features and specifications are subject to change without notice.
- This device complies with Part 15 of the FCC Rules.
- Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- Trademarks and registered trademarks are the property of their respective owners. For the United States of America: Copyright © 2023 EnGenius Technologies, Inc. All rights reserved.