Fit

EnGenius FitController On-Premises Network Management

FitController puts IT managers in charge with effortless Wi-Fi setup and management.

EnGenius FitController is a simple, secure, and easy-to-use wired & wireless network management solution for your small business. Our intuitive system makes it easy to manage your network. Plus, our advanced security features help keep your data safe, and your customers connected.

For IT managers or admins at small businesses who need to manage access points and switches quickly and easily, FitController's intuitive interface and simple plug-and-play integration securely provide efficient device management, while cloud accessibility allows remote management of multiple networks from a single portal without requiring a dedicated server. Admins can easily view detailed analytics from a single pane of glass as well as monitor and troubleshoot issues instantly.

Features & Benefits

- Plug and play installation. Simply plug into PoE Ethernet switch. No additional download or training required.
- Fast deployment with quick-scan device registration & configuration.
- Network management for up to 100 EnGenius Fit access point and switches.
- License-free On-Premises network management with a comprehensive line of wired and wireless networking products.
- Hierarchy view to quickly structure customer sites and organize networks.
- Network health view to analyze networks and report potential issues.
- Multi-tenant user login privileges.
- Device two-factor authentication to ensure only authorized devices are on the network.
- Enhanced Wi-Fi security WPA3 for employee as well as guests.
- Support up to 8 networks per user account.
- Create separate employee and guest networks to keep traffic isolated.
- Set limits to stop bandwidth hogs.
- Built-in powerful Qualcomm Qual-Core CPU.
- Micro SD slot for extra back-up.
- 802.3af or DC12/1A input power source.
- Remote maintenance, monitoring & troubleshooting with EnGenius FitXpress or EnGenius Cloud.

Benefits to Help Grow Your Business

Enable Smart Networks

EnGenius FitController increases efficiency by reducing network issues and allowing your team to focus on growing the business instead of managing networks.

Simplify the Complex

FitController requires no complicated installation—simply plug and play. The intuitive interface allows you to register, configure, and add devices to your network in just a few clicks.
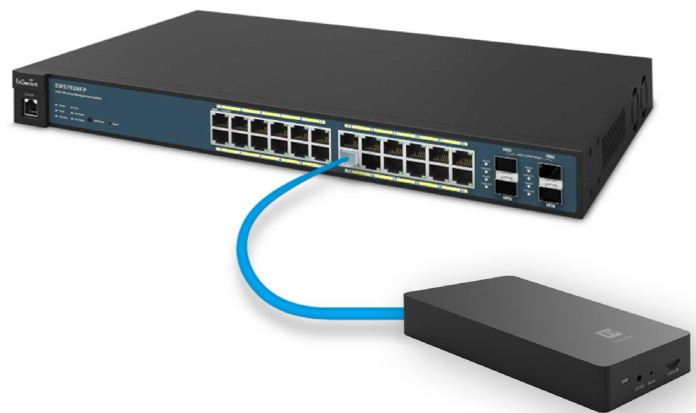

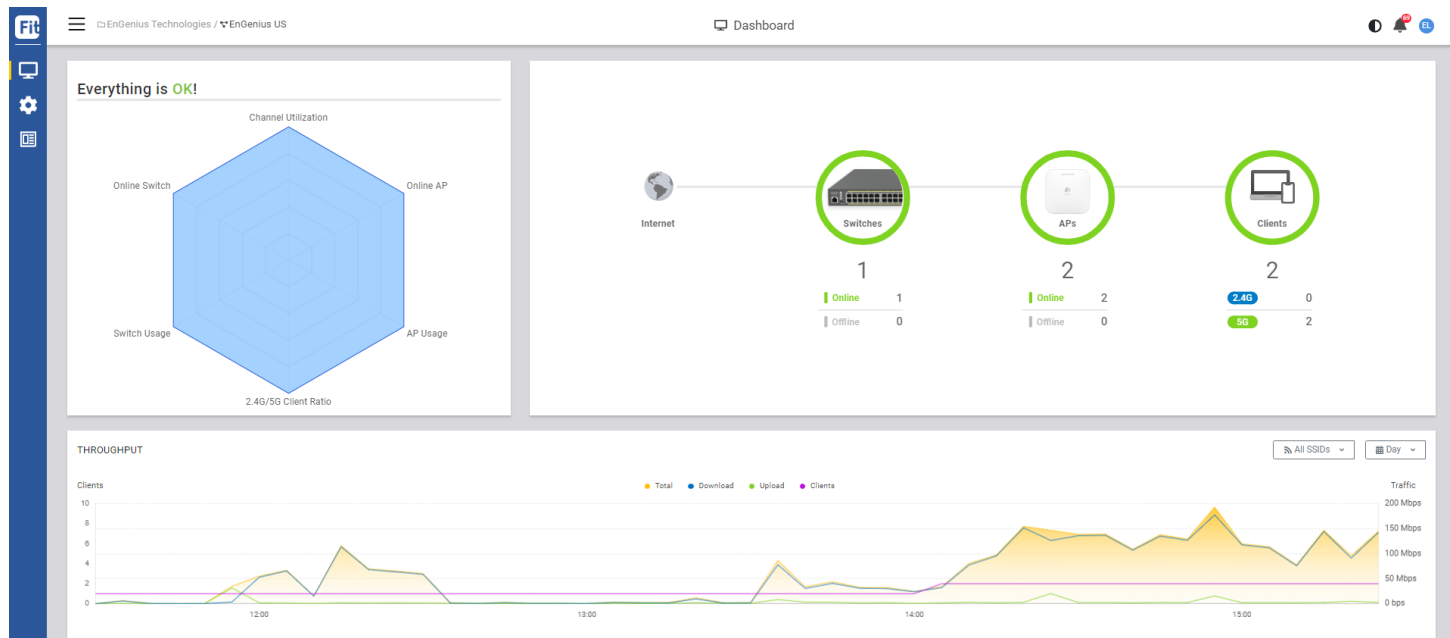### Manage From a Single Pane of Glass

The intuitive interface and effortless integration securely provide efficient device management of multiple networks from a single portal.
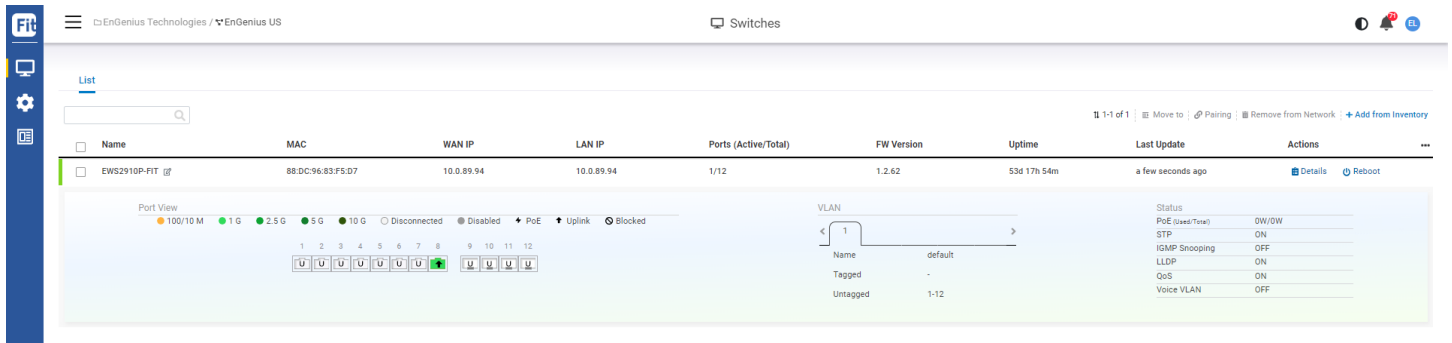
Safeguard Your Staff and Resources

Because it's deployed at every site, the FitController offers an always-on, secure, single sign-on service. Its security protocols keep your data and devices safe while two-factor authentication prevents access in case passwords are compromised.


Enjoy Time-Saving Management Features

Easily view the general status or deep-dive analytics of up to one hundred devices while troubleshooting and resolving issues from a single management interface.

List

	Name	MAC	WAN IP	LAN IP	Ports (Active/Total)	FW Version	Uptime	Last Update	Actions
	EWS2910P-FIT	88:DC:96:83:F5:D7	10.0.89.94	10.0.89.94	1/12	1.2.62	53d 17h 54m	a few seconds ago	Details Reboot

1 1-1 of 1 | Move to | Pairing | Remove from Network | + Add from Inventory

Port View
100/10 M 1 G 2.5 G 5 G 10 G Disconnected Disabled PoE Uplink Blocked

1 2 3 4 5 6 7 8   9 10 11 12

VLAN
< 1 >
Name   default
Tagged   -
Untagged   1-12

Status
PoE (Used/Total)   0W/0W
STP   ON
IGMP Snooping   OFF
LLDP   ON
QoS   ON
Voice VLAN   OFF

Put this Controller Anywhere

Its compact size means you can put the FitController anywhere—even in tight, small spaces.

3.04"

6.02"

.98"   .98"

LAN2   LAN1(PoE)   12V DC   Reset   micro SD
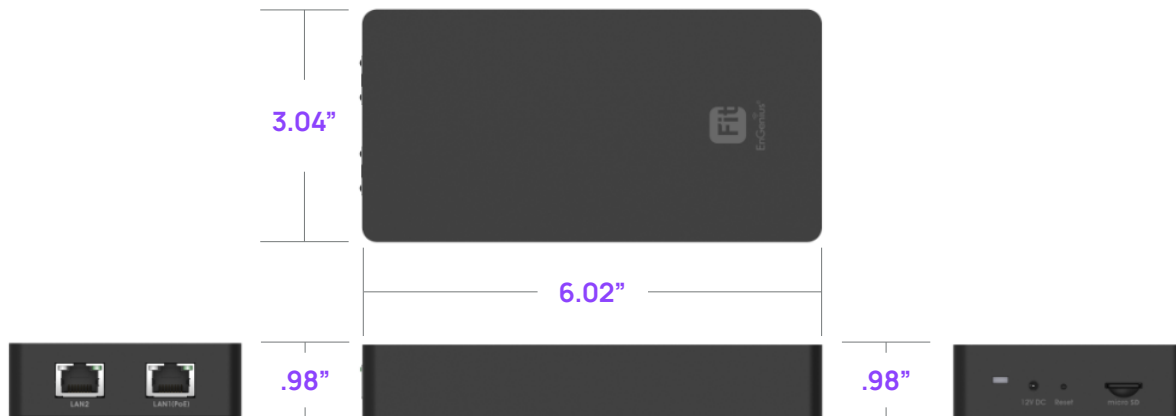
Choose Your Options

On-premises network management allows admins to manage your network locally or through the cloud, which allows remote management of multiple networks from a single portal. FitController allows you to check your network any place, any time.

Network Deployment with FitController

Local Network

Up to 100 Devices

Single Site

Same Subnet: On-Site deployment

Location 2
Location 1
Location 3
Location 4

Multiple Locations

Cross-Subnet: Deploy FitController on each network
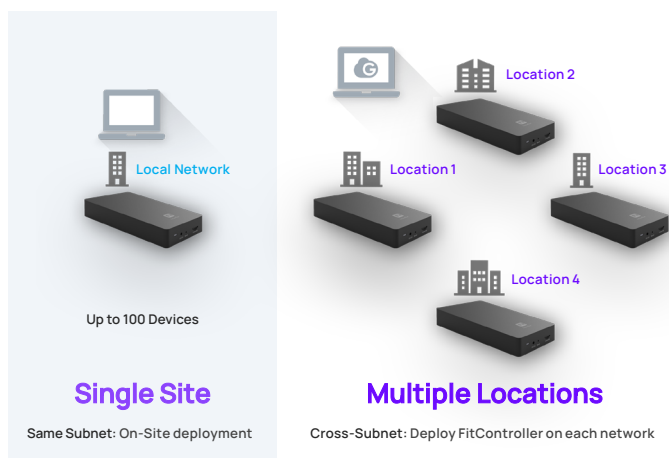
Just Plug Into PoE Port on any Switch

	Name	MAC	Model Name	AP Online	AP Offline	Switch Online	Last Update	Action
	FitController_1	A0:00:00:65:00:16	FitController	21	0	4	3 minutes ago	> Create Tunnel
	FitController_2	A0:00:00:65:00:18	FitController	6	3	2	3 minutes ago	> Create Tunnel
	FitController_3	A0:00:00:65:00:20	FitController	30	0	6	3 minutes ago	> Create Tunnel
	FitController_4	A0:00:00:65:00:21	FitController	3	0	1	3 minutes ago	> Create Tunnel
	FitController_5	A0:00:00:65:00:17	FitController	7	0	2	3 minutes ago	> Create Tunnel
	FitController_6	A0:00:00:65:00:19	FitController	26	1	4	3 minutes ago	> Create Tunnel

FitController
FitController
FitController
FitController
FitController
FitController
FitController

FitController Network Management

Total Control

FitController is affordable but highly secure, allowing you to create separate business & guest networks, and limit network availability to bandwidth hogs. You determine who can access your network and when. You establish the bandwidth for staff, customers, and applications. You're in total control!

Satisfaction Guaranteed

FitController was built with the small business owner in mind, giving you all the essentials you need and taking the complexity out of network setup & management.

EnGenius Technologies / EnGenius US

Switches › EWS2910P-FIT

< EWS2910P-FIT

Model Name	ECS2512
Firmware	1.2.62
MAC Address	88:DC:96:83:F5:D7
Configuration	Up-to-date

IP Address	10.0.89.94
Subnet Mask	255.255.255.0
Gateway	10.0.89.1
Topology	Show
LED Light	
LED Blinking	

Voice VLAN	OFF
Jumbo Frame	OFF
IGMP Snooping	OFF
STP	ON
LLDP	ON
QoS	ON

Summary　System Conf.　Ports　VLAN　Mirror　Link Aggregation　Logs

PORTS

● 100/10 M　● 1 G　● 2.5 G　● 5 G　● 10 G　○ Disconnected　● Disabled　⚡ PoE　↑ Uplink　⊘ Blocked

1 2 3 4 5 6 7 8   9 10 11 12

🔧 Configure

	Port	Label	Enabled	Voice VLAN	Speed/Duplex	PoE	PVID	Untagged VLAN	Tagged VLAN	Isolation	Rate Limit (Tx/Rx)	Flow Control	QoS	PD Lifeguard	
☐	1		Yes	Disabled	Auto	-	1	1	-	Not isolation	None/None	On	0	Disabled	
☐	2		Yes	Disabled	Auto	-	1	1	-	Not isolation	None/None	On	0	Disabled	
☐	3		Yes	Disabled	Auto	-	1	1	-	Not isolation	None/None	On	0	Disabled	
☐	4		Yes	Disabled	Auto	-	1	1	-	Not isolation	None/None	On	0	Disabled	
☐	5		Yes	Disabled	Auto	-	1	1	-	Not isolation	None/None	On	0	Disabled	
☐	6		Yes	Disabled	Auto	-	1	1	-	Not isolation	None/None	On	0	Disabled	
☐	7		Yes	Disabled	Auto	-	1	1	-	Not isolation	None/None	On	0	Disabled	
☐	8		Yes	Disabled	Auto	-	1	1	-	Not isolation	None/None	On	0	Disabled	

EnGenius Technologies / EnGenius US

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QoS	ON

Summary　System Conf.　Ports　VLAN　Mirror　Link Aggregation　Logs

Reset　✓ Apply

VLAN

+ Add VLAN

VLAN ID	Name	Tagged	Untagged	
1 (Management)	default		1-12	🖊 Edit
500	Guest			🖊 Edit
1000	Staff			🖊 Edit

Reliable Performance

You can always depend on FitController to keep you connected to your staff and customers with stable Wi-Fi and unparalleled performance. EnGenius Fit access points automatically prioritize business-critical video and voice calls.
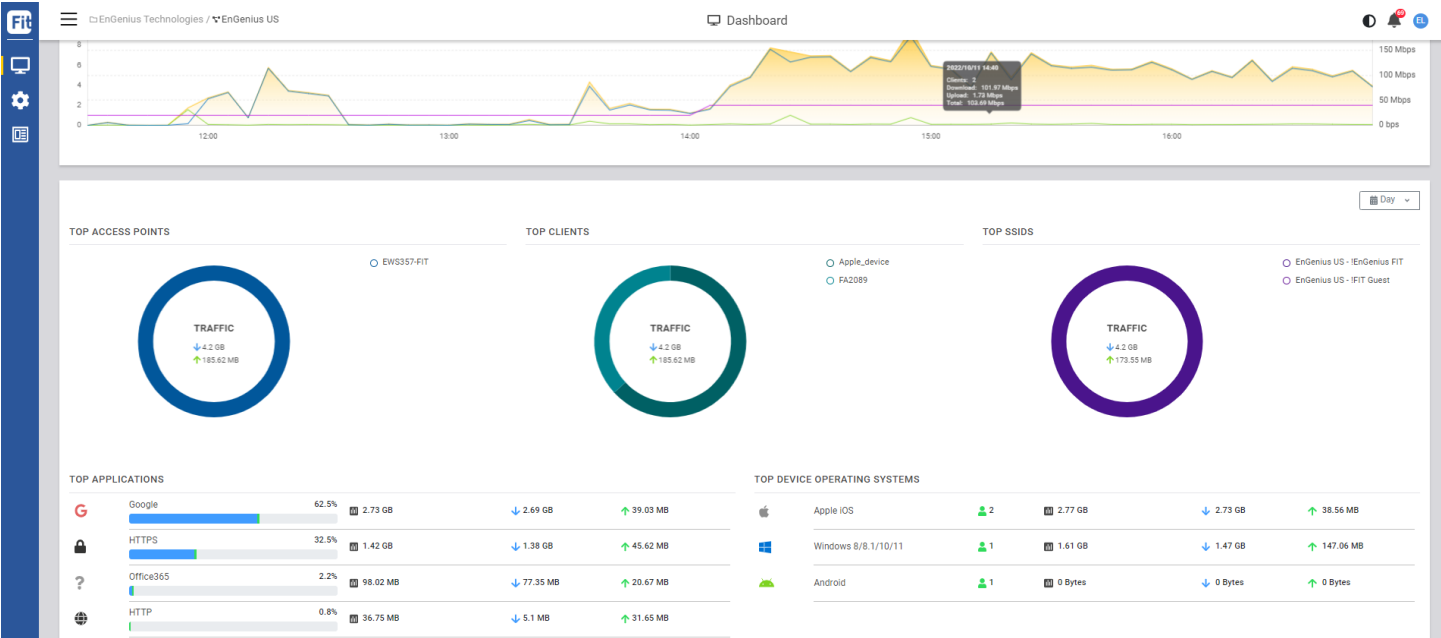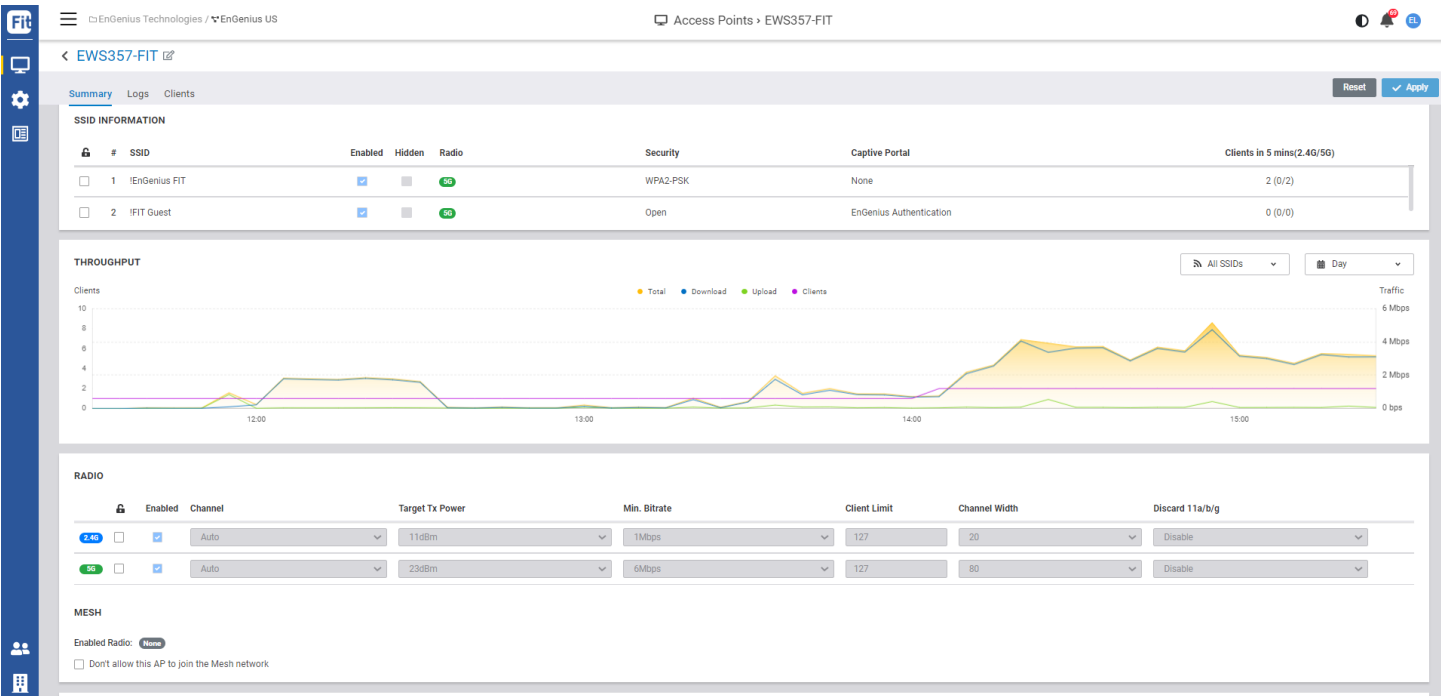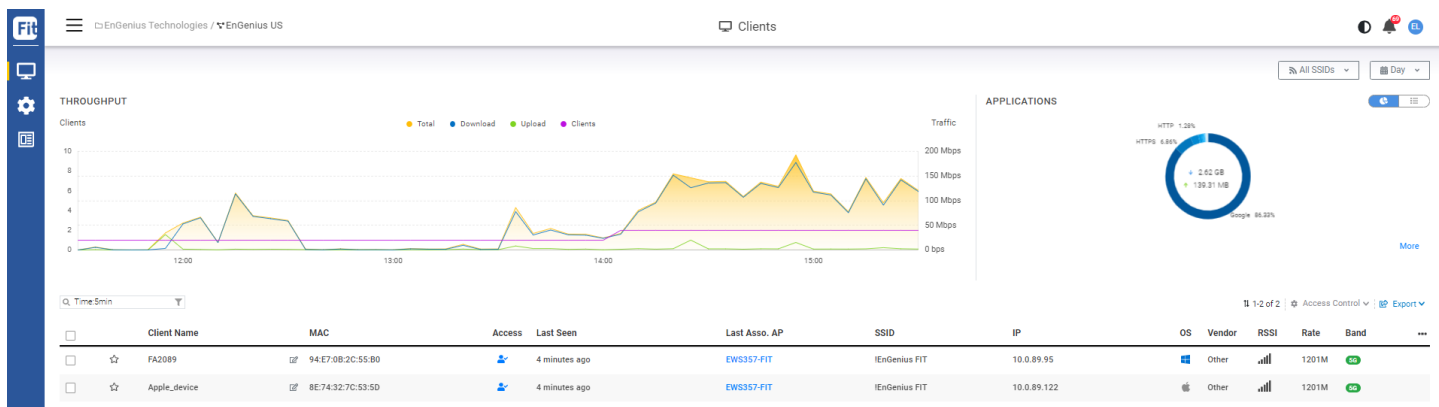

No Hidden Fees

Enjoy the benefits of business-grade Wi-Fi with no subscription or license fees. FitXpress is the affordable solution!

View Real-Time Status of Network and Client Devices

Business owners have the ability to see devices and client status, port connection states, and PoE utilization to better evaluate and assess networks.

Multi-Tenant Provides User Access While Keeping the Network Secure

Business owners can assign each user as either administrator (full access privileges) or viewer (read only privileges).

Latest Wireless Security

Simply use secure WPA3 on your network to increase network security.

Hardware Solution Simplified

Access Points — EnGenius FitController provides tools to help manage access points and quickly solve any issues. The access point view gives administrators the ability to review all access points in one window to compare resources, radio configurations, and IP settings as well as see details on specific APs.

Switches —For quick and simple setup, manage your switches using EnGenius FitController. Simply refine configurations under the list view for switches in the switch detail page after initial setup and registration. Companies can choose from four options based on port and PoE needs.

Choose from among EnGenius Fit indoor and outdoor APs.

	INDOOR		OUTDOOR
	2X2 INDOOR ACCESS POINT	4X4 INDOOR ACCESS POINT	2X2 OUTDOOR ACCESS POINT
MODELS	**EWS357-FIT**	**EWS377-FIT**	**EWS850-FIT**
Standard	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)	Wi-Fi 6 (802.11ax)
Frequency	2.4GHz & 5 GHz	2.4GHz & 5 GHz	2.4GHz & 5 GHz
Throughput Rate	574Mbps @2.4GHz, 1200Mbps @5GHz	1148Mbps @2.4GHz, 2400Mbps @5GHz	574Mbps @2.4GHz, 1200Mbps @5GHz
Radio Chain	2x2:2	4x4:4	2x2:2
Gigabit Ethernet Ports	(1) 1 Gbps	(1) 2.5 Gbps	(1) 2.5 Gbps
PoE Power	802.3af	802.3at	802.3at

Choose from among EnGenius Fit 8, 24, and 48-port switches.

	8-PORT POE SWITCH	24-PORT HALF POE BUDGE SWITCH	24-PORT FULL POE BUDGE SWITCH	48-PORT HALF POE BUDGE SWITCH	48-PORT FULL POE BUDGE SWITCH
MODELS	**EWS2910P-FIT**	**EWS7928P-FIT**	**EWS7928FP-FIT**	**EWS7952P-FIT**	**EWS7952FP-FIT**
PoE Power Budget	55W	240W	410W	410W	740W
Gigabit Copper Port	8	24	24	48	48
Gigabit Uplinks Port	2 SFP	4 SFP	4 SFP	4 SFP	4 SFP
PoE	802.3af for all 8 ports	802.3af/at for all 24 ports	802.3af/at for all 24 ports	802.3af/at for all 48 ports	802.3af/at for all 48 ports
Switching Capacity	20 Gbps	56 Gbps	56 Gbps	104 Gbps	104 Gbps
Managed	Layer 2 Plus	Layer 2 Plus	Layer 2 Plus	Layer 2 Plus	Layer 2 Plus

Technical Specifications

SOFTWARE FEATURES	AP Usage	Number of client device in 5 GHz radio
MANAGE	Switch Usage	**Throughput**
DASHBOARD	2.4G or 5G Client Ration	Client
Manage Access Points/Switches	Number of Online Switch	Traffic:
Status	Number of Offline Switch	• Total
Channel Utilization	Number of Online AP	• Download
Online AP	Number of Offline Switch	• Upload
Online Switch	Number of client device in 2.4 GHz radio	**Traffic**
		Top Access Point

FitController Network Management

Top Clients

Top SSIDs

Top Applications

ACCESS POINTS

Display

Name

MAC address

Model Name

WAP IP

LAN IP

Client (2.4G/5G)

FW Version

Network

Uptime

Last Update

Mesh Mode

Action:
- Detail
- Reboot

Throughput

Channel Utilization

Radio:
- 2.4GHz
- 5GHz
- Unlock
- Enabled
- Channel
- Target TX Power
- Channel Width

WLAN:
- SSID
- Status

Mesh:
- Don't allow this AP to join the Mesh network
- Location

Detail

Device Information

Model Name

Firmware

Serial Number

MAC Address

Configuration

IP Address

Subnet Mask

Gateway

Topology

LED Light

LED Blinking

2.4 GHz Channel & TX Power

5 GHz Channel & TX Power

Summary

SSID Information

Unlock

SSID

Enabled

Hidden

Radio

Security

Captive Portal

Clients in 5 mins (2.4GHz/5GHz)

Throughput

Client

Traffic:
- Total
- Download
- Upload

Radio

2.4GHz and 5GHz

Unlock

Enabled

Channel

Target Tx Power

Min. Bitrate

Client Limit

Channel Width

Discard 11a/b/g

Mesh:
- Don't allow this AP to join the Mesh network

IP Addressing

Static

DHCP

IPv4 Address

Subnet Mask

Gateway

DNS Server 1

DNS Server 2

Management VLAN

Log

ADD Filter

Time

Event Type

Description

Clients

Filter

Favorite

Time

SSID

OS

Client

IP

List

Client Name

MAC

Access

Last Seen

SSID

IP

OS

Vendor

RSSI

Rate

Band

Download

Access Control

VIP

Block

Normal

Export

CSV file

SWITCHES

Display

Name

MAC address

Model Name

WAP IP

LAN IP

Ports (Active/Total)

FW Version

Network

Uptime

Last Update

Mesh Mode

Action:
- Detail
- Reboot

Port View:
- Speed
- Disconnected
- Disabled
- PoE
- Uplink
- Blocked

VLAN:
- Name
- Tagged
- Untagged

Status:
- PoE
- STP
- IGMP Snooping
- LLDP
- QoS
- Voice VLAN

Detail

Device Information

Model Name

Firmware

Serial Number

MAC Address

Configuration

IP Address

Subnet Mask

Gateway

Topology

LED Light

LED Blinking

2.4 GHz Channel & TX Power

5 GHz Channel & TX Power

Summary

SSID Information

Unlock

SSID

Enabled

Hidden

Radio

Security

Captive Portal

Clients in 5 mins (2.4GHz/5GHz)

Throughput

Clients

Traffic:
- Total
- Download
- Upload

Radio

2.4GHz and 5GHz

Unlock

Enabled

Channel

Target Tx Power

Min. Bitrate

Client Limit

Channel Width

Discard 11a/b/g

Mesh:
- Don't allow this AP to join the Mesh network

IP Addressing

Static

DHCP

IPv4 Address

Subnet Mask

Gateway

DNS Server 1

DNS Server 2

Management VLAN

System Conf.

Voice VLAN

Voice VLAN ID

QoS Priority

Mode

OUIs

Quality of Service

Trust Mode

Scheduling Method

Queue Mapping

IGMP Snooping

Version

VLAN

Jumbo Frames

MTU Size

Local GUI

Debug Log Upload

Information

Location

Size

Upload

Ports

Display

Port

Label

Enabled

Voice VLAN

Speed/Duplex

PoE

PVID

Untagged VLAN

Tagged VLAN

Isolation

Rate Limit (Tx/Rx)

QoS

Configure

Enable

Label

Speed/Duplex

VLAN:
- PVID
- Enabled Voice VLAN

Isolation

Rate Limit

VLAN

VLAN

VLAN ID

Name

Tagged

Untagged

Mirror

Mirror

Session ID

Session State

Destination Port

Egress

Ingress

Link Aggregation

Trunk

ID

Aggregation Type

Active Ports

Member Ports

Logs

Add Filter

TOPOLOGY

Show Label

Redundant

CLIENTS

Throughput

Client

Traffic:
- Total
- Download
- Upload

Filter:
- Favorite
- Time
- SSID
- OS
- Client
- Last Associate AP
- IP

Display:
- Client Name
- MAC
- Access
- Last Seen
- Last Asso. AP
- SSID
- IP
- OS
- Vendor
- RSSI
- Rate
- Band

Access Control

Export

CONFIGURE

SSID

Display

SSID

Radio

Enabled

Hidden

Security

Captive Portal

Splash Page

Bandwidth Limit

Scheduling

Application Analysis

Add SSID

Wireless

Name

Enabled

Hide

Radio

Security Type:
- WPA2-PSK
- WPA3-PSK
- WPA2-Enterprise
- WPA3-Enterprise

802.11r

802.11w:
- All clients
- Allow 11w-clients only

Client IP Mode:
- NAT Mode
- Bridge Mode

Default VLAN

Dynamic Client VLAN Pooling

Enable Application Analysis

Advanced Settings

L2 Isolation

Band Steering:
- Type
- RSSI Threshold
- Client Percent

BCMC Suppression

Bandwidth Limit

Per Client:
- Download
- Upload

Per SSID:
- Download
- Upload

Recommendation:
- Application
- Bandwidth

Captive Portal

Authentication Type:
- Click-through
- EnGenius Authentication
- Custom Radius
- Voucher Service

Redirect URL:
- Redirect to the URL that the user was trying to visit
- Redirect users to a specified URL after login

Advanced Setting:
- Session Timeout
- Idle Timeout
- Walled Garden
- HTTPS Login

Splash Page

Splash Page Type:
- External Splash Page URL
- Local Splash Page

Schedule

Scheduling

Quick Template

Access Control

Block List

VIP List

RADIO SETTINGS

Indoor & Outdoor

Radio

Channel

Channel Width

Target Tx Power

Min. Bitrate

Client Limit

Discard 802.11a/b/g

Disable 11as

Background Scanning

Client Balancing

Mesh

FITCON USER

RADIUS Users

Display

Name

Email

Authorized SSID

Create Date

Status

Add User

Email

Name

Password

SSID Authorization

Authorized SSIDs

Display

Name

Email

Authorized by

Authorized Date

De-authorize

FIRMWARE UPGRADE

AP

Firmware Lists:
- Model
- Firmware Version
- Upload Date
- Actions

Maintenance Window

Upload

Upgrade Now

Switch

Firmware Lists:
- Model
- Firmware Version
- Upload Date
- Actions

Maintenance Window

Upload

Upgrade Now

ALERT SETTINGS

AP

Basic:
- AP go offline for
- Event with severity

Professional:
- Configuration changed within network

Switch

Basic:
- AP go offline for
- Event with severity

Professional:
- Configuration changed within network
- Switch Port link status change
- Switch STP port status change
- Switch LBD status change

VLAN SETTINGS

Display

VLAN ID

Name

Voice VLAN

SSID

Add VLAN

VLAN ID

Name

SWITCH SETTINGS

System & Protocols

Spanning Tree Protocol:
- Protocol
- Bridge Priority

LLDP

Voice VLAN

Voice VLAN ID

QoS Priority

Mode

OUIs:
- OUI Address
- Description

Quality of Service

Trust Mode

Scheduling Method

Queue Mapping:
- CoS
- DSCP

IGMP Snooping:
- Version
- VLANs

Jumbo Frames:
- MTU Size

GENERAL SETTINGS

Network

EnGenius US:
- Country
- Time Zone

Local Credential:
- Username
- Password

SNMP:
- SNMP State
- Community

AP

LED Light

Syslog Server:
- Status
- Log Server Address
- Log Server Port

Message for Blocked Client

Advanced Settings

Presence Reporting:
- Server Location
- Key
- Interval

Traffic Log

Multicast to Unicat

Switch

LED Light

Syslog Server:
- Status
- Log Server Address
- Log Server Port

ACCESS CONTROL

Blocked List

VIP List

ANALYZE

EVENT LOG

Device Event

Time

Device

Event Type

Description / Detail

System Event

Time

Device

Event Type

Description / Detail

Config Log

Time

Device

Event Type

Description / Detail

TEAM MEMBERS

DISPLAY

Name

Email

System Permissions

Network Managed

Status

Last Login

Action

INVITE NEW MEMBER

User Email

Networks

Permission

ORGANIZATION

INVENTORY

Devices

Network

Model

Serial Number

MAC Address

Registered Time

Registered By

Register Device

Pending Approval:
- Serial Number
- Model
- MAC

Manually:
- Serial Number

SYSTEM INFORMATION

Usage

CPU

Memory

Disk

System Up Time

Software Version

Check for Update

EMAIL ALERTS

Mail Server

SMTP Server

SMTP Port

Authentication

User Name

Password

From Email Address

To Email Address

Subject

BACKUP & RESTORE

Configuration Backup

Name

Network

Time

Creator

Action

System Backup

Backup System Configuration

Restore System Configuration

ACCOUNT PROFILE

Edit Profile

Password

Reset

Reboot

Two-Factor Authentication

Notification Settings

Logout

Product Images

3.04"

.98"

6.02"

.98"

Mounting Holes

Power
LED

DC-Jack

Reset
Button

Micro
SD Slot

12V DC   Reset   micro SD

LAN2   LAN1 PoE

LAN2   LAN1(PoE)

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.