

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.

Register Devices

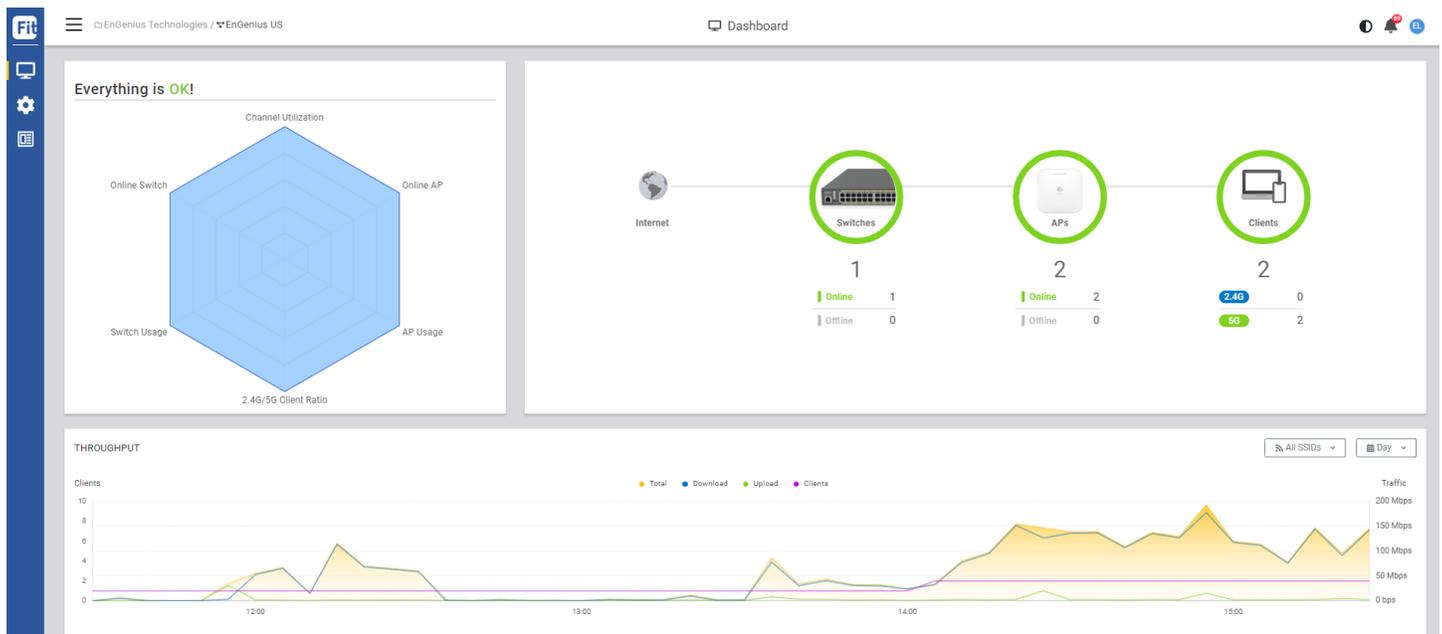
Pending Approval | Manually

<input type="checkbox"/>	Serial Number	Model	MAC
<input type="checkbox"/>	2270X2914ETR	EWS357-FIT	88:DC:97:0B:1B:4A



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

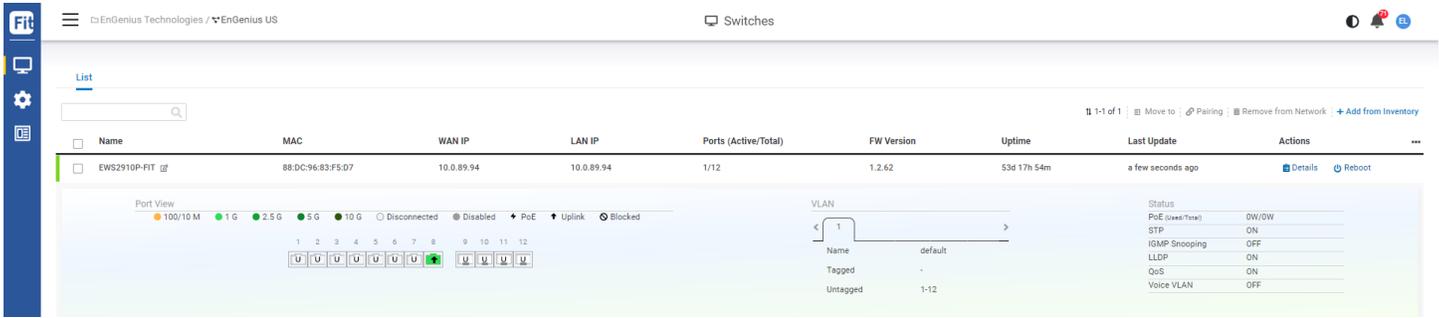
Because it's deployed at every site, the FitController offers an always-on, secure, single sign-on service. Its security protocols keep your data and devices safe while two-factor authentication prevents access in case passwords are compromised.

The image shows two screenshots from the FitController interface. The left screenshot is titled "Two-Factor Authentication" and provides instructions for enabling 2FA. It includes a QR code and account details for "@enginustech.com". The right screenshot shows the "Wireless" configuration page for a SSID named "Staff", with various settings like radio frequency, security type (WPA2-PSK), and client IP mode.

Enjoy Time-Saving Management Features

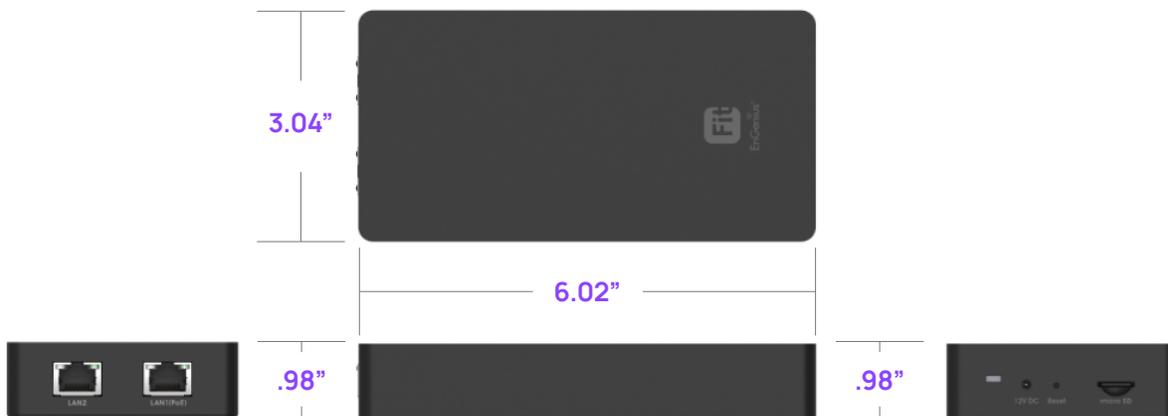
Easily view the general status or deep-dive analytics of up to one hundred devices while troubleshooting and resolving issues from a single management interface.

The image shows the "Access Points" management interface in FitController. It features a table listing APs with columns for Name, MAC, WAN IP, LAN IP, Clients, FW Version, Network, Uptime, and Last Update. Below the table, there are detailed analytics for a selected AP, including throughput and channel utilization graphs, radio settings (2.4G and 5G), and mesh configuration options. A "Things look good!" notification is visible over the graphs.



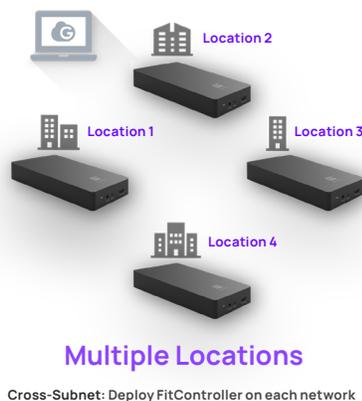
Put this Controller Anywhere

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



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.



Just Plug Into PoE Port on any Switch

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!

The screenshot shows the configuration page for a new SSID named "Guest Network". The interface includes a navigation menu with options like "Wireless", "Bandwidth Limit", "Captive Portal", "Splash Page", "Schedule", and "Access Control". The configuration settings are as follows:

- Name: Guest Network
- Enabled:
- Hide:
- Radio: 2.4GHz 5GHz 2.4GHz & 5GHz
- Security Type: WPA2-PSK (Secure) [Password:]
- 802.11r:
- 802.11w:
- Client IP Mode: NAT Mode
- Server 1: 8.8.8.8
- Server 2: 8.8.4.4
- Default VLAN: Select a VLAN ID

The screenshot shows the "Bandwidth Limit" configuration page for the "Guest Network". The interface includes a navigation menu with options like "Wireless", "Bandwidth Limit", "Captive Portal", "Splash Page", "Schedule", and "Access Control". The configuration settings are as follows:

- Enabled:
- Per Client:
 - Download: 50 Mbps (1 ~ 999 Mbps)
 - Upload: 50 Mbps (1 ~ 999 Mbps)
- Per SSID:
 - Download: 50 Mbps (1 ~ 999 Mbps)
 - Upload: 50 Mbps (1 ~ 999 Mbps)
- Recommendation:

Application	Bandwidth per client
Basic Mail & Web Browsing	1 Mbps (download)
SD Streaming	3 Mbps (download)
HD Streaming	8 Mbps (download)
Live Streaming	5 Mbps (upload) [720p] 7 Mbps (download) [1080p]
Online Game	5 Mbps (upload) 10 Mbps (download)
4K Streaming	25 Mbps
High-Speed Internet	50 Mbps

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.

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

Legend: 100/10 M, 1 G, 2.5 G, 5 G, 10 G, Disconnected, Disabled, PoE, Uplink, Blocked

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

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

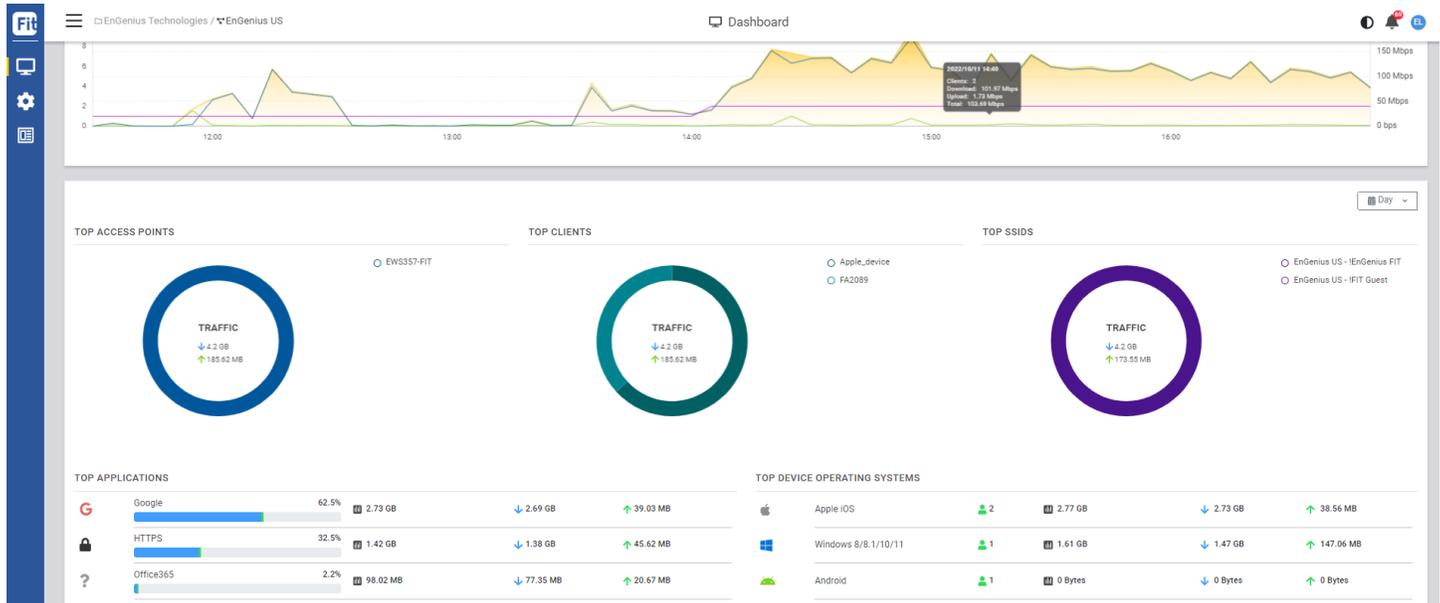
Summary System Conf. Ports **VLAN** Mirror Link Aggregation Logs

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.

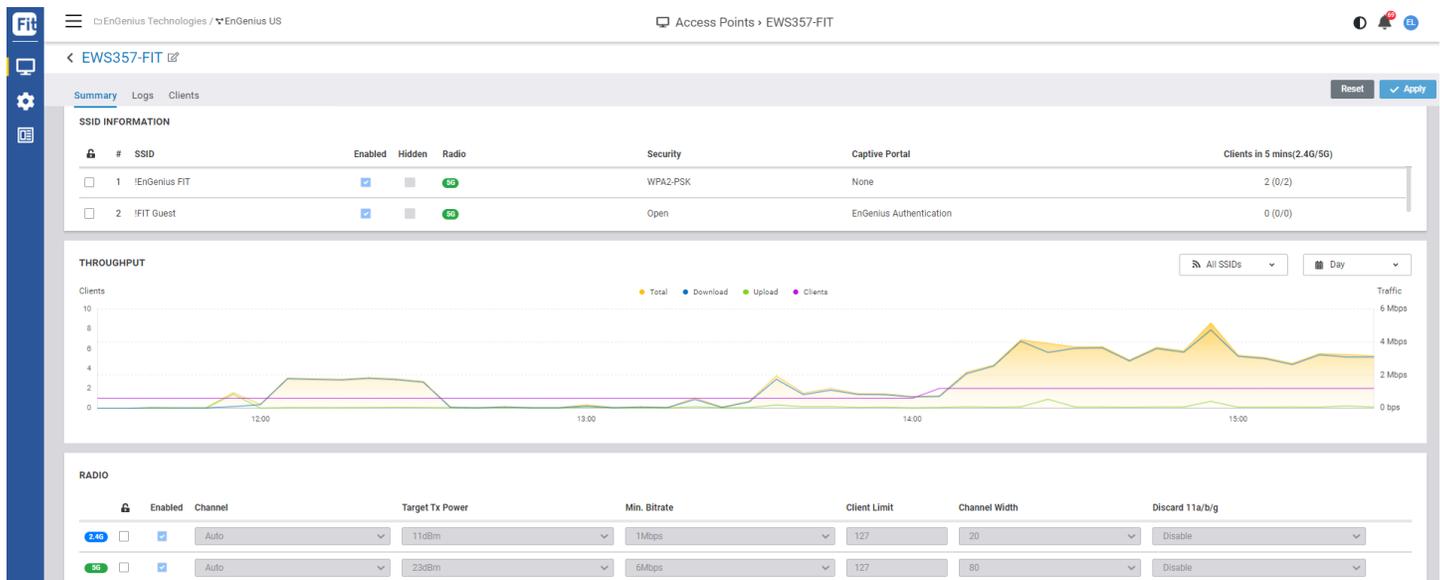


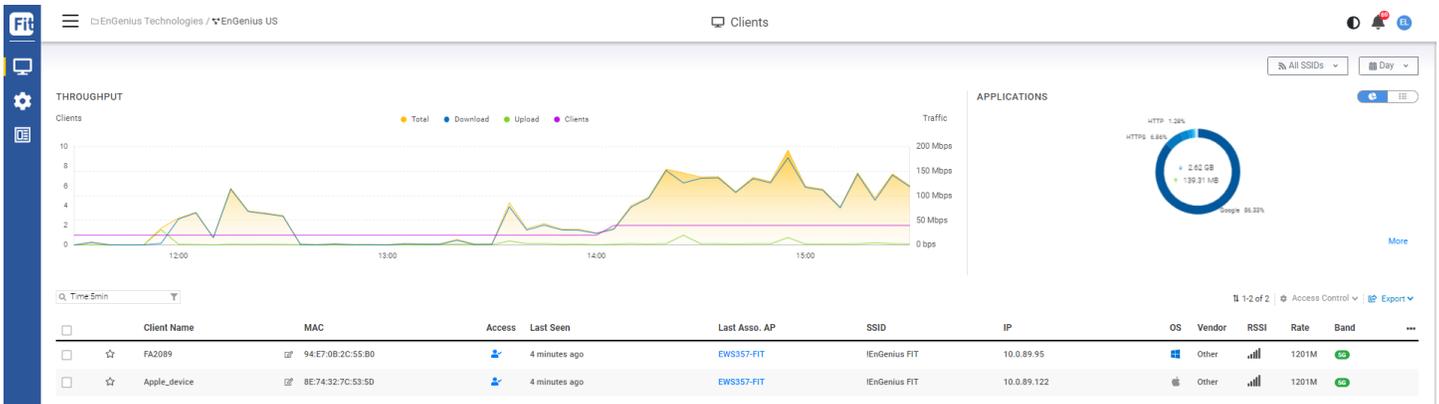
No Hidden Fees

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).

Invite New Member ✕

User Email (one per row)	Networks	Permission
tom.lee@gmail.com john.lee@gmail.com david.lee@gmail.com	<ul style="list-style-type: none"> Fit Controller <ul style="list-style-type: none"> EnGenius Technologies <ul style="list-style-type: none"> EnGenius US Admin EnGenius Canada 	<div style="border: 1px solid #ccc; padding: 2px; width: 100px; text-align: center;">Admin</div> <div style="border: 1px solid #ccc; padding: 2px; width: 100px; text-align: center;">Admin</div>

Invite users to manage your networks with privileges.

Cancel
Apply

Latest Wireless Security

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

Wireless | Bandwidth Limit | Captive Portal | Splash Page | Schedule | Access Control

Name: Guest Network

Enabled:

Hide:

Radio: 2.4GHz 5GHz 2.4GHz & 5GHz

Security Type: WPA3-PSK (SAE) - WPA3 only (Secure) WPA2-PSK (Secure) Open (Less or no secure)

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.



MODELS	EWS356-FIT	EWS357-FIT	EWS377-FIT	EWS850-FIT
Standard	Wi-Fi 6 (802.11ax)	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	2.4GHz & 5 GHz
Throughput Rate	574Mbps @2.4GHz, 1200Mbps @5GHz	574Mbps @2.4GHz, 1200Mbps @5GHz	1148Mbps @2.4GHz, 2400Mbps @5GHz	574Mbps @2.4GHz, 1200Mbps @5GHz
Radio Chain	2x2:2	2x2:2	4x4:4	2x2:2
Trasmit Power (2.4GHz)	21 dBm	22 dBm	23 dBm	25 dBm
Trasmit Power (5GHz)	21 dBm	22 dBm	23 dBm	23 dBm
Antenna Gain (2.4GHz)	2 x 4 dBi (2.4GHz)	2 x 4 dBi (2.4GHz)	4 x 5 dBi (2.4GHz)	2 x 5 dBi (SMA-Type)
Antenna Gain (5GHz)	2 x 5 dBi (5GHz)	2 x 5 dBi (5GHz)	4 x 6 dBi (5GHz)	2 x 5 dBi (SMA-Type)
Gigabit Ethernet Ports	(1) 1 Gbps	(1) 1 Gbps	(1) 2.5 Gbps	(1) 2.5 Gbps
PoE Power	802.3at	802.3af	802.3at	802.3at
Operation Mode	Access Point/Mesh/ AP Mesh	Access Point/Mesh/ AP Mesh	Access Point/Mesh/ AP Mesh	Access Point/Mesh/ AP Mesh
IP Rating	N/A	N/A	N/A	IP67
Mounting Type	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Pole / Wall

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



MODELS	EWS2910P-FIT	EWS2910FP-FIT	EWS7928P-FIT	EWS7928FP-FIT	EWS7952P-FIT	EWS7952FP-FIT
Form Factor	Desktop	Desktop	19" 1U	19" 1U	19" 1U	19" 1U
PoE	PoE	PoE+	PoE+	PoE+	PoE+	PoE+
PoE Power Budget	55W	110W	240W	410W	410W	740W
Gigabit Copper Port	8	8	24	24	48	48
Gigabit Uplinks Port	2 SFP	2 SFP	4 SFP	4 SFP	4 SFP	4 SFP
PoE	802.3af for all 8 ports	802.3af/at 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	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	Layer 2 Plus
Full load Power Consumption	63.72 Watts	63.72 Watts	283.88 Watts	470.5 Watts	430.2 Watts	840.8 Watts
Packet Buffer Memory	512KB	512KB	512KB	512KB	1.5MB	1.5MB
Max. Packet Forwarding Rate (Mpps)	14.88Mpps	14.88Mpps	41.66Mpps	41.66Mpps	77.376Mpps	77.376Mpps
MAC Address Table Size	8K	8K	8K	8K	16K	16K

Technical Specifications

SOFTWARE FEATURES

MANAGE

DASHBOARD

Manage Access Points/Switches

Status

Channel Utilization

Online AP

Online Switch

AP Usage

Switch Usage

2.4G or 5G Client Ration

Number of Online Switch

Number of Offline Switch

Number of Online AP

Number of Offline Switch

Number of client device in 2.4 GHz radio

Number of client device in 5 GHz radio

Throughput

Client

Traffic:

- Total
- Download
- Upload

Traffic

Top Access Point

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 & Outdoorx

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 Unicast

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

