

# EnGenius Fit

## Solution Brochure

# Smart Networking Solution for Small Businesses

EnGenius Fit is a smart networking solution tailored for small businesses. It includes Access Points, Network Switches, Switch Extenders, Gateways, and flexible management platforms, all designed to work together to ensure the ultimate Wi-Fi experience and efficient network management.

### Why EnGenius Fit



#### Easy Deployment

Set up business network with easy-onboarding features



#### Flexible Management

Suitable for local, remote, or on-premises scenarios



#### Business-grade Devices

Affordable hardware with enterprise-grade features

## Smart Networking Solution for Small Businesses

Experience the future of wireless and wired network management for small businesses with EnGenius Fit - a new breed of APs, switches, switch extenders and gateways meticulously engineered to streamline your network operations. Offering affordable, high-quality business-class hardware, EnGenius Fit ushers you into an era of secure and smart Wi-Fi connectivity tailored to meet the unique demands of various small business scenarios.

At the heart of EnGenius Fit is FitXpress, a cloud-based solution designed to keep your network management simple, secure, and on the go. Its user-friendly interface allows for effortless deployment, configuration, monitoring, and troubleshooting across multiple locations. From small offices with fewer IT resources to work-from-home users, FitXpress caters to a broad range of needs while promoting multi-network and multi-tenant management.

For businesses seeking more control and privacy, FitController, an on-premises management appliance, offers network scalability with enterprise-level features, ensuring data privacy and autonomy.



## Network Management for Various Business Scenarios



Management Platform	EnGenius FitXpress	EnGenius FitController
Management Type	Cloud Management	On-premises Management
Access Interfaces	Web Portal, Mobile App	Appliance with Web/ Local GUI
Number of Devices	≤ 30 Devices (per site)	≤ 100 Devices (per appliance)
Management Needs	<ul style="list-style-type: none"> <li>- Small businesses lacking IT resources</li> <li>- Multi-site operations with few devices</li> <li>- Demand for remote/ on-the-go management</li> </ul>	<ul style="list-style-type: none"> <li>- Small businesses, branch office</li> <li>- Required data privacy and autonomy</li> </ul>

## Versatile Management and Product Lines of EnGenius Fit



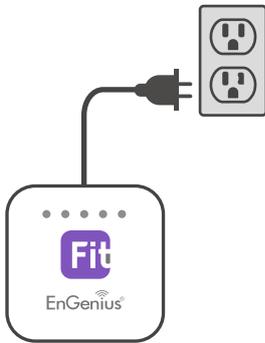
# Easy Onboarding

The EnGenius Fit simplifies device onboarding with a three-step process. It enables distinct, secure Wi-Fi networks and allows customized captive portals, making network management seamless and efficient.



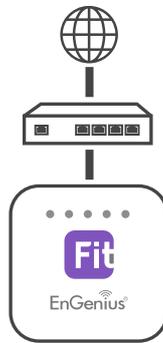
## Step 1

Power the Device



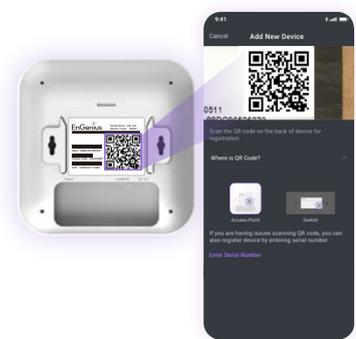
## Step 2

Connect Internet



## Step 3

Scan to Get Onboard

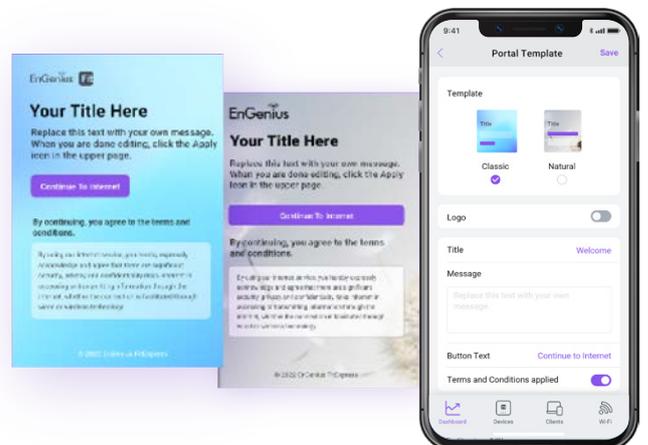
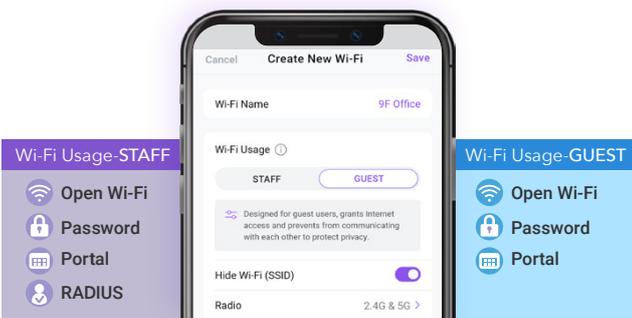


## Quickly Create Secure Guest and Employee Wi-Fi Networks

The solution allows you to establish separate, secure Wi-Fi networks for different users. You can create one network for your team, ensuring secure access to business resources, and another distinct network for your guests, providing them with internet access while keeping your business data secure.

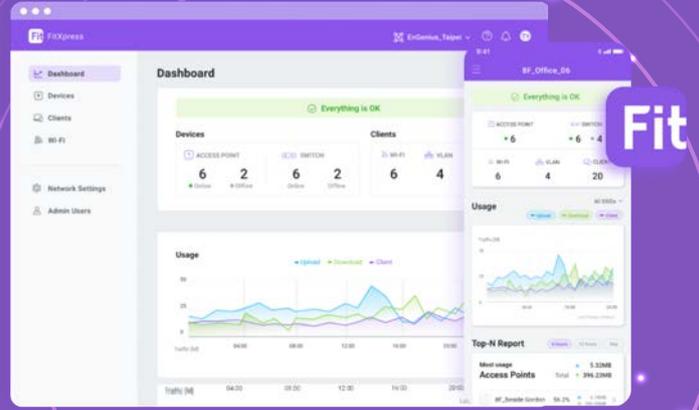
## Personalize Captive Portals for Wi-Fi Networks

It even offers the ability to create customized captive portals, a user-friendly feature for user authentication. This means you can design unique login pages that reflect your brand, all while ensuring secure access to your network, effortlessly.

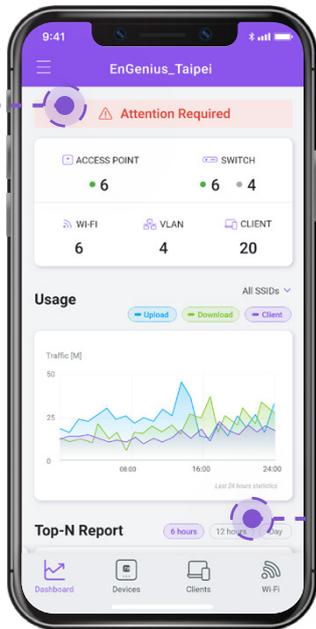
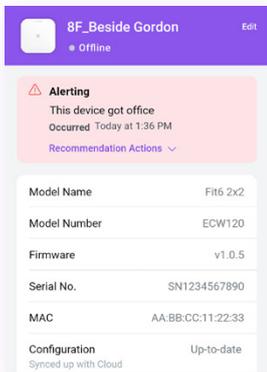


# Effortless Monitoring

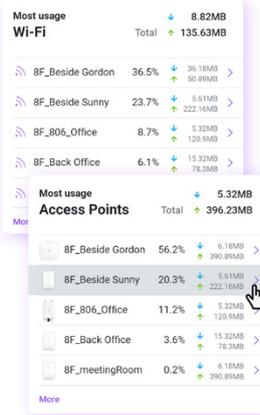
The EnGenius Fit keeps you informed with real-time updates and alerts on device performance and traffic, ensuring proactive network management.



Locate the device with alerts and take action accordingly.



Find the most usage AP and Wi-Fi Network

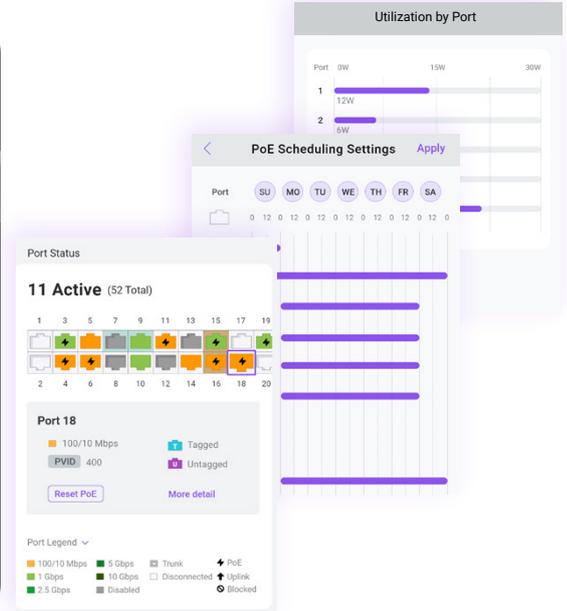
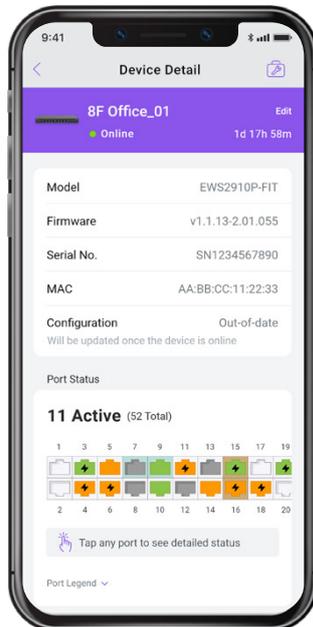


## Stay Informed with Device Status and Alerts

It provides real-time updates on device performance and network traffic, facilitating efficient monitoring and management of your network. With instant alerts, you're always in the loop about any changes or issues, ensuring proactive network management.

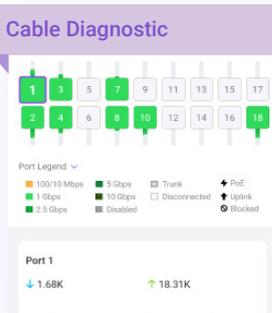
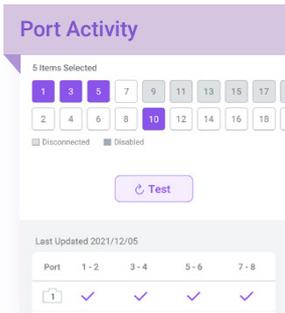
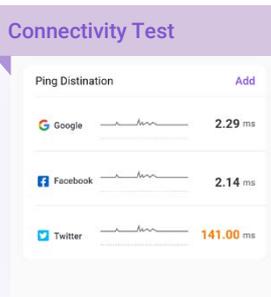
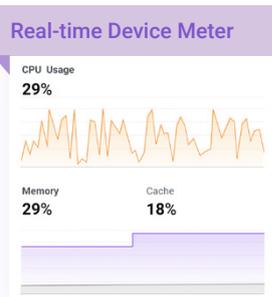
## Detailed Device Info at Your Fingertips

You can view comprehensive data and the current status of any specific device with ease. Its user-friendly interface provides comprehensive device data at a glance, simplifying the monitoring and management of individual devices within your network.



# Troubleshooting Made Easy

The EnGenius Fit simplifies troubleshooting with visual diagnostic tools, enabling quick issue resolution. It also enhances network safety by swiftly identifying and blocking suspicious clients.



### Client on Switch

Last Updated 2021/12/05      Refresh

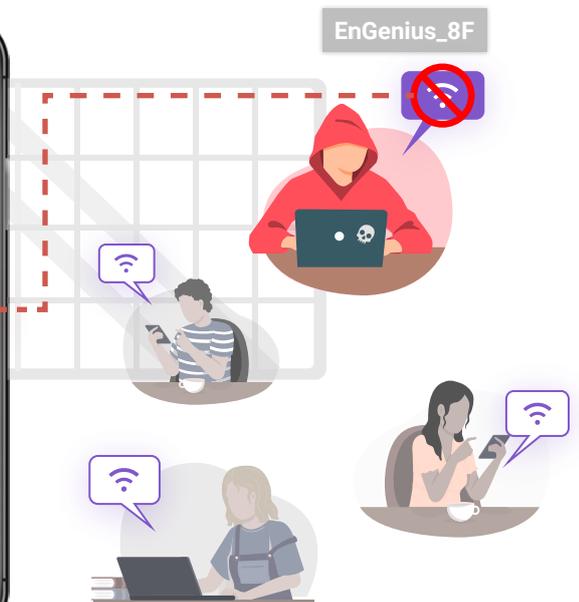
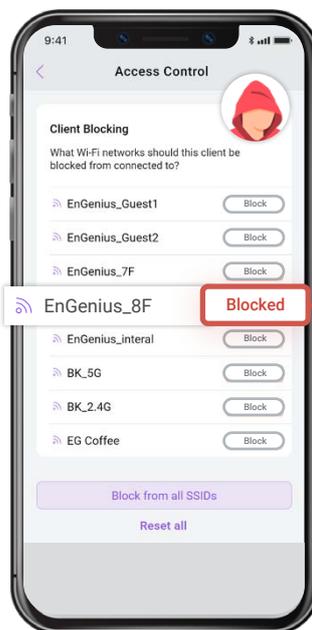
Port	MAC Address	VLAN
1	00:02:6F:00:00:01	8
1	00:02:6F:00:00:01	28
1	00:02:6F:00:00:01	32
1	00:02:6F:00:00:01	99
13	00:02:6F:00:00:01	13
13	00:02:6F:00:00:01	26

## Effortless Troubleshooting with Visualized Tools

With its visualized diagnostic tools, the complexity of troubleshooting is greatly simplified. These tools allow you to easily identify and resolve network issues with just a few clicks, making network management more efficient and less time-consuming.

## Effortlessly Block Suspicious Clients for Specific Wi-Fi

Ensuring your network's safety is a top priority by offering features that rapidly identify and block any suspicious wireless clients. This proactive approach to security helps maintain the integrity of your network, ensuring a safe and reliable connection for all users.



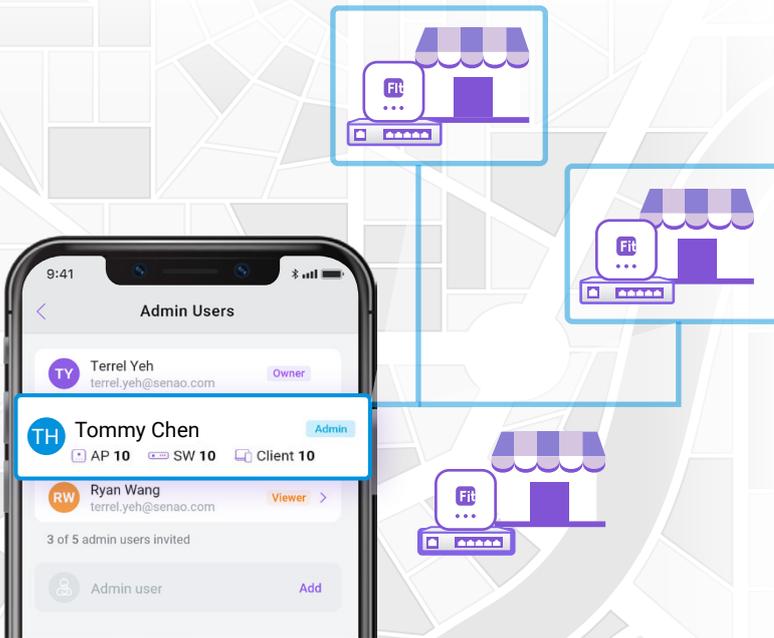
## Comprehensive Management

The EnGenius Fit enables efficient management of multiple networks across various locations from one interface. It allows flexible delegation of network management privileges and is fully compatible with all EnGenius Fit hardware.



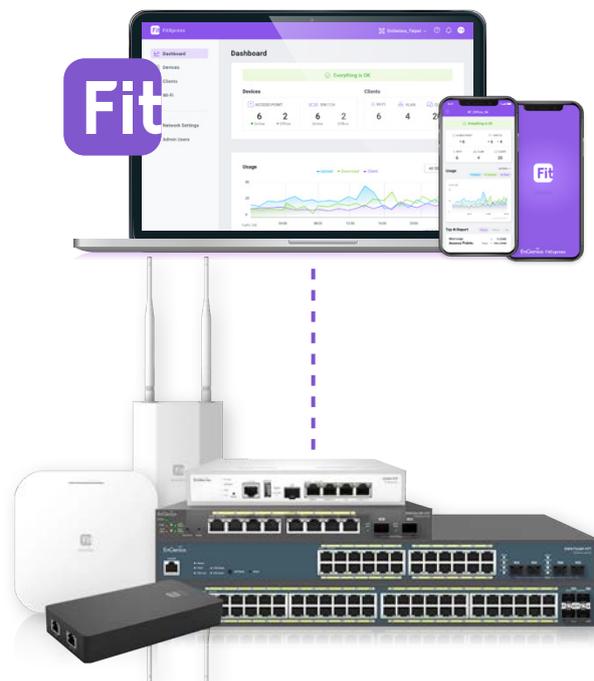
## User Delegation for Multi-location Management

It offers the convenience of managing multiple networks across various locations from a single interface. As your business evolves, it provides the flexibility to delegate network management privileges, adapting to your changing needs and ensuring efficient network operations.



## Total Control over All EnGenius Fit Hardware Series

All EnGenius Fit hardware series can be effortlessly managed through the EnGenius Fit management platform. Its comprehensive capabilities ensure that every piece of hardware is efficiently integrated and managed, providing a cohesive and reliable network solution for your business.



# Effortlessly Manage Your Network Anywhere, Anytime



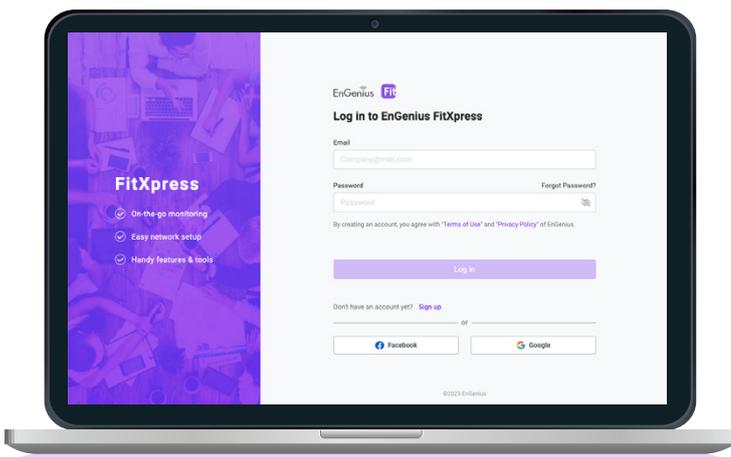
## EnGenius FitXpress

Cloud-Based Network Management for Small Businesses, Now on Mobile and Web

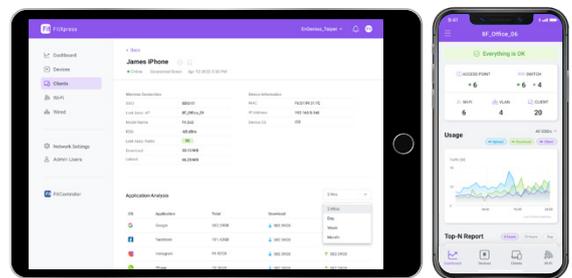
FitXpress is a cloud-based network management solution designed for small businesses, home offices, and neighborhood stores. It offers secure, on-the-go management for all EnGenius Fit device models through its user-friendly mobile app and web interface. Enjoy easy Wi-Fi setups, intuitive device management, and handy troubleshooting tools.

FitXpress simplifies remote management for multiple locations and makes network management delegation effortless. Whether you're managing a small business or a chain of stores, FitXpress provides a comprehensive platform for deploying, configuring, monitoring, and troubleshooting your network. Experience the convenience of network management at your fingertips with FitXpress.

### Web Portal



### Mobile App



### Download App



# Achieving Privacy, Security, and Control in Network Management



## EnGenius FitController

On-Premises Appliance with business-class Features

FitController is an on-premises appliance that streamlines local network management. With its business-class features, it's specifically designed to manage all EnGenius Fit device models.

The system offers a hassle-free, plug-and-play deployment and straightforward configurations, eliminating the need for complex software installations. It provides visualized monitoring for managed devices and clients, and enables remote management of multiple networks from a single web portal.

FitController is an ideal solution for businesses that prioritize data security, autonomy, and privacy.



- Plug-and-play setup into PoE Ethernet switch, no extra downloads or training.
- Quick-scan for fast device registration and configuration.
- Manages up to 100 EnGenius Fit devices.
- Hierarchy view for efficient network organization.
- Network health view for thorough network analysis.
- Multi-tenant user login for enhanced security.
- Two-factor device authentication for network integrity.
- Supports up to 50 networks.
- Built-in Quad-Core CPU.
- Micro SD slot for extra backup.
- Power options: 802.3af or DC12/1A input.



# Next-Generation Wi-Fi Featuring Higher Capacity, Greater Efficiency, and Improved Performance

## The Game Changing Product - 11ax Access Points

802.11ax (Wi-Fi 6) technology improves upon real-world deployment of 802.11ac. As the next-generation Wi-Fi, 802.11ax brings speed improvements along with greater stability and efficiency in wireless connections.



## Innovative Features of Wi-Fi 6

### Greater Capacity

Serves more devices simultaneously



**8x8 MU-MIMO**  
Increases capacity up to 4x



**OFDMA**  
Enables more clients to transmit simultaneously



**BSS Coloring**  
Allows access points be placed closer together

### Higher Efficiency

Handles simultaneous connections without slowdown



**OFDMA**  
Reduces payload and latency



**BSS Coloring**  
Reuses the channel and improves interference



**Target Wake Time**  
Saves the battery life of devices

### Improved Performance

Increases throughput with new modulation scheme



**8x8 MU-MIMO**  
Receives data from multiple antennas, doubling bandwidth



**1024QAM**  
Increases data rates by 25%



**Target Wake Time**  
Reduces the latency from contention of clients

## Scenarios Where 802.11ax Can Boost Your Wi-Fi Performance



### Heavy Interference

Environment : **Small Office, and Co-working Spaces**

802.11ax's spatial reuse feature, through BSS coloring, reduces co-channel interference and improves simultaneous transmissions. This cuts through RF congestion in office environments for greater network efficiency.



### Dense Usage

Environment : **Cafes, Retail Shops, and Restaurants**

802.11ax's uplink and downlink of MU-MIMO provides greater network efficiency and focuses radio energy on specific users. Capable of handling demand-heavy environments with many client devices, this technology is ideal for small businesses such as cafes, retail shops, and restaurants.



### 5G Complement

Environment : **Indoor Spaces**

EnGenius Wi-Fi 6 and 5G can provide more smart applications with higher data rates and increased capacity. Wi-Fi 6 is ideal for indoor or high-density areas, while 5G is optimized for outdoor mobile communications.

## EnGenius Fit Wi-Fi 6 Access Points

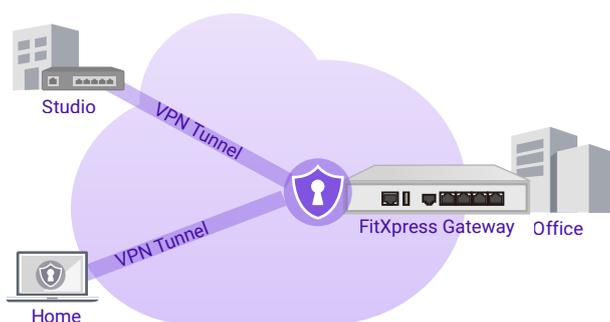
Wi-Fi 6 (11ax)	Indoor AP				Outdoor AP
					
Model Number	EWS357-FIT	EWS377-FIT	EWS356-FIT	EWS276-FIT	EWS850-FIT
Access Points	Fit6 2x2	Fit6 4x4	Fit6 2x2 Lite	Fit6 4x4 Lite	Fit6 2x2 Outdoor
Wi-Fi Standard	802.11ax	802.11ax	802.11ax	802.11ax	802.11ax
2.4GHz Speed	574 Mbps	1,148 Mbps	574 Mbps	1,148 Mbps	574 Mbps
5GHz Speed	1,200 Mbps	2,400 Mbps	2,400 Mbps	2,400 Mbps	1,200 Mbps
PoE Standard	802.3af/at	802.3at	802.3af	802.3at	802.3af/at



# Enhancing Business Connectivity and Protection

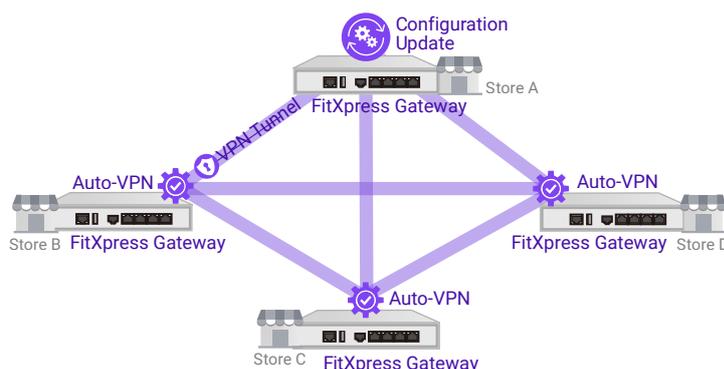
## Simplified Secure Connection Across Multiple Sites

The EnGenius FitXpress Gateway simplifies remote work and communication for small businesses with its site-to-site and client VPN. It eliminates the complexities of traditional VPN configurations, enabling secure and private connections with ease.



## Seamless Connectivity with Self-healing Auto VPN

Our self-healing auto VPN feature ensures a seamless connection by automatically updating VPN parameters to all peers. It effortlessly adapts to changes in WAN IP addresses or forwarding ports, guaranteeing that your connection remains secure and uninterrupted.



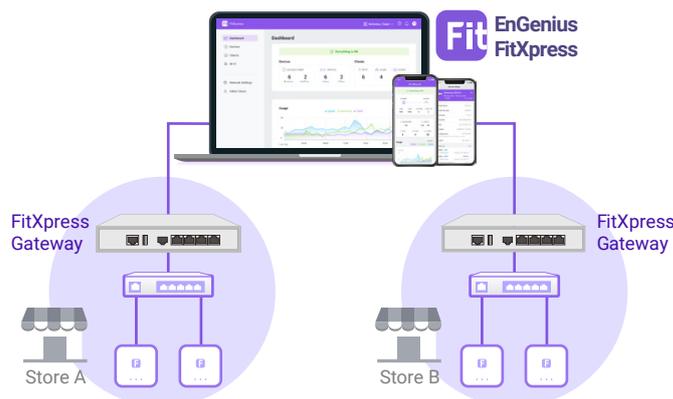
## Robust Protection with High-throughput Stateful Firewall

This system ensures robust protection with its high-throughput stateful firewall. By enforcing comprehensive security policies, it acts as a protective barrier, diligently safeguarding your sensitive data from any potential external threats or unauthorized access attempts.



## Streamlined Network Control with Unified Cloud-Management

Maximize network management with EnGenius Fit's unified cloud platform - FitXpress. It integrates security gateways, access points, and switches, providing full network control. Its centralized, intuitive interface simplifies infrastructure management, ensuring easy and efficient administration.



# EnGenius Fit Access Points

	Indoor				Outdoor
<b>Access Points</b>					
<b>Model Name</b>	Fit6 2x2 Lite	Fit6 4x4 Lite	Fit6 2x2	Fit6 4x4	Fit6 2x2 Outdoor
<b>Model Number</b>	EWS356-FIT	EWS276-FIT	EWS357-FIT	EWS377-FIT	EWS850-FIT
<b>Wi-Fi Standard</b>	802.11a/b/g/n/ac/ax	802.11a/b/g/n/ac/ax	802.11a/b/g/n/ac/ax	802.11a/b/g/n/ac/ax	802.11a/b/g/n/ac/ax
<b>Radio</b>	2.4 GHz & 5 GHz	2.4 GHz & 5 GHz			
<b>Max. Data Rate (2.4 GHz)</b>	574 Mbps	1,148 Mbps	574 Mbps	1,148 Mbps	574 Mbps
<b>Max. Data Rate (5 GHz)</b>	2,400 Mbps	2,400 Mbps	1,200 Mbps	2,400 Mbps	1,200 Mbps
<b>Radio Chains</b>	2 x 2:2	4 x 4:4	2 x 2:2	4 x 4:4	2 x 2:2
<b>Transmit Power on (2.4 GHz)</b>	21 dBm	23 dBm	22 dBm	23 dBm	23 dBm
<b>Transmit Power on (5 GHz)</b>	21 dBm	23 dBm	22 dBm	23 dBm	25 dBm
<b>Antennas (2.4 GHz)</b>	2 x 4 dBi	4 x 5 dBi	2 x 4 dBi	4 x 5 dBi	2 x 5 dBi (SMA-Type)
<b>Antennas (5 GHz)</b>	2 x 5 dBi	4 x 5 dBi	2 x 5 dBi	4 x 6 dBi	2 x 5 dBi (SMA-Type)
<b>Antenna Beamwidth</b>	N/A	N/A	N/A	N/A	360 °
<b>Power-over-Ethernet</b>	802.3af	802.3at	802.3af/at	802.3at	802.3af/at
<b>Ethernet Ports</b>	1x GE Port	1x 2.5GE Port	1x GE Port	1x 2.5GE Port	1x 2.5GE Port
<b>IP Rating</b>	N/A	N/A	N/A	N/A	IP67
<b>Surge Protection</b>	N/A	N/A	N/A	N/A	1KV
<b>ESD Protection</b>	N/A	N/A	N/A	N/A	Contact: 4KV Air: 8 K
<b>Mounting Type</b>	Wall/ Ceiling	Wall/ Ceiling	Wall/ Ceiling	Wall/ Ceiling	Wall/Pole mount
<b>Dimensions</b>	160 x 160 x 30 mm	205 x 205 x 33 mm	160 x 160 x 27 mm	205 x 205 x 33 mm	190x 124 x 47 mm
<b>Operating Modes</b>	AP/Mesh	AP	AP/Mesh	AP/Mesh	AP/Mesh
<b>Mesh Technology</b>	●	N/A	●	●	●
<b>MU-MIMO</b>	●	●	●	●	●
<b>Beamforming</b>	●	●	●	●	●
<b>On-premise management (FitController)</b>	●	●	●	●	●
<b>Mobile app (FitExpress App)</b>	●	●	●	●	●

# EnGenius Fit Switches

	Fit Switches					
<b>PoE Switches</b>						
<b>Model Name</b>	FitSwitch 8 PoE	FitSwitch 8 Full PoE	FitSwitch 24 PoE	FitSwitch 24 Full PoE	FitSwitch 48 PoE	FitSwitch 48 Full PoE
<b>Model Number</b>	EWS2910P-FIT	EWS2910FP-FIT	EWS7928P-FIT	EWS7928FP-FIT	EWS7952P-FIT	EWS7952FP-FIT
<b>Switching Class</b>	Layer 2 +	Layer 2 +	Layer 2 +	Layer 2 +	Layer 2 +	Layer 2 +
<b>Gigabit Ethernet Ports</b>	8	8	24	24	48	48
<b>SFP Ports</b>	2	2	4	4	4	4
<b>RJ45 Console Ports</b>	-	-	1	1	1	1
<b>Form Factor</b>	Desktop	Desktop	19"1U	19"1U	19"1U	19"1U
<b>Power-over-Ethernet</b>	802.3af/at	802.3af/at	802.3af/at	802.3af/at	802.3af/at	802.3af/at
<b>PoE Capable Ports</b>	Ports 1-8	Ports 1-8	Ports 1-24	Ports 1-24	Ports 1-48	Ports 1-48
<b>Total PoE Budget</b>	55W	110W	240W	410W	410W	740W
<b>Switching Capacity</b>	20Gbps	20Gbps	56Gbps	56Gbps	104Gbps	104Gbps
<b>Full load Power Consumption</b>	63.72 Watts	119.45 Watts	283.88 Watts	470.5 Watts	430.2Watts	840.8 Watts
<b>Packet Buffer Memory</b>	512KB	512KB	512KB	512KB	1.5MB	1.5MB
<b>Max. Packet Forwarding Rate</b>	14.88Mpps	14.88Mpps	41.664Mpps	41.664Mpps	77.376Mpps	77.376Mpps
<b>MAC Address Table Size</b>	8K	8K	8K	8K	16K	16K
<b>Jumbo frame size</b>	9K	9K	9K	9K	9K	9K
<b>Weight</b>	0.6 kg	0.6 kg	3.6 kg	3.8 kg	6.4 kg	6.4 kg
<b>Dimensions</b>	240mm x 105mm x 27mm	240mm x 105mm x 27mm	440mm x 260mm x 44mm	440mm x 260mm x 44mm	440mm x 310mm x 44mm	440mm x 310mm x 44mm
<b>Operating Temp.</b>	0 to 40°C	0 to 40°C	0 to 50°C	0 to 50°C	0 to 50°C	0 to 50°C
<b>Storage Temp.</b>	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C
<b>Humidity</b>	5% ~ 95%	5% ~ 95%	5% ~ 95%	5% ~ 95%	5% ~ 95%	5% ~ 95%
<b>Cloud-managed (FitExpress)</b>	●	●	●	●	●	●
<b>On-premises (FitController)</b>	●	●	●	●	●	●
<b>Standalone Mode</b>	●	●	●	●	●	●

# EnGenius Fit Switch Extender

## Switch Extender 4 PoE | EXT1105P 4x GE PoE and 1x GE PD Switch Extender



EnGenius Switch Extender is designed to simplify network deployments, tackling cabling constraints with integrated PoE and PSE output ports for fast and cost-effective connectivity extension, eliminating the need for additional power supplies or network cabling. Its built-in Switch features enhance network performance by directing VoIP traffic to specific VLANs, ensuring superior call quality. Concurrently, IGMP Snooping effectively mitigates IPTV traffic. Furthermore, port isolation and RSTP serve to bolster edge security, protecting the core network.

Model Name	Switch Extender 4 PoE
Model Number	EXT1105P
Feature labels (product image)	PD Switch
Switch Class	Switch Extender
RJ45 Console Ports	5
Form Factor	6.7" (desktop)
Power-over-Ethernet	802.3 af/at
Total PoE Budget	Up to 60w
PoE Capable Ports	Ports 1-4
Switching Capacity	10Gbps
Packet Forwarding Rate	7.44 Mpps
MAC Address Table	8k
Packet Buffer Memory	512KB
Full load Power consumption	69.36 Watts
Continuous PoE Power	●
Dimensions	170mm x 105mm x 27mm
Cloud Managed Mode	●
On-premises Mode	Future

# EnGenius FitXpress Gateway

## FitGateway6 4G 1SFP | XG60-FIT EnGenius FitXpress 4-Port Gigabit PoE+ Gateway



EnGenius XG60-FIT FitGateway provides a high-performance network solution with advanced features, including load balancing, dual-WAN, and site-to-site VPN. The product offers unified management through FitXpress, allowing for easy configuration and management from anywhere. It offers a comprehensive end-to-end solution for businesses seeking to enhance their network performance and security.

Model Name	FitGateway6 4G 1SFP
Model Number	XG60-FIT
CPU Processor	Dual Core 2.1GHz
Memory	4GB
Flash Storage	8GB
RJ-45 Interface	4x1G
SFP interface	1xSFP
PoE ports	1
PoE Standard	af/at
Mounting Method	Wall mount
Firewall (SPI throughput)	3.2Gbps
VPN throughput	776Mbps
Max. Concurrent VPN Tunnels	160

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