FitController

EnGenius Fit FitController On-Premises Network Management Controller

Simple • Secure • Smart

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.

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.

Technical Specifications

FIT CONTROLLER

HARDWARE SPECIFICATION

CPU

Model:
Qualcomm Cypress IPQ6010

Clock Rate:
Quad-Core Cortex A53 1.8 GHz

Hardware Encryption Acceleration:
Yes

Memory

System Memory:
DDR4 1GB x 2

Storage

eMMC:
8GB (MLC)

Interfaces and LEDs

2 x 10/100/1000 Mbps RJ45 ports (1 x PoE 802.3af)

1 x Micro SD Slot

1 x DC-Input Jack

1 x Reset Button

1 x Power LED

2 x LAN LED

LED Indicators

1 x Power

Color	LED status	Description
Blue	Solid Light	Power On
Off	Light off	Power Off

2 x LAN

Ethernet LED				
Location	LED indicative	Color	LED status	Description
LED Per Port	LINK (Left Side)	Green	Solid Light	1Gbp
		Amber	Solid Light	Other less than 1G
		Off	Light off	Disconnected
	ACT (Right side)	Green	Solid Light	Link
		Amber	Blinking	Transmit or receive on this port
		Off	Light off	No Link

Power Source

Power-over-Ethernet: 802.3af Input

12VDC /1A Power Adapter (Not Included)

Maximum Power Consumption

Under 5W

ENVIRONMENT & PHYSICAL

Operating

Temperature:
0°C~40°C (32°F~104°F)

Humidity:
0%~90% typical

Storage

Temperature:
-40°C~80°C (-40°F~176°F)

Humidity:
0%~90% typical

NETWORK MANAGEMENT

Manage up to 100 EnGenius Fit Access Point and Fit Switch

Hierarchy View

Network

- **MANAGE**
- **DASHBOARD**
- Managed 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 POINT**
- **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
- 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
- **Logs**
- :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

ADVICE

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

ADVICE

Topology

Show Label

REDUNDANT

CLIENTS

Throughput

Clients

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

ADVICE

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

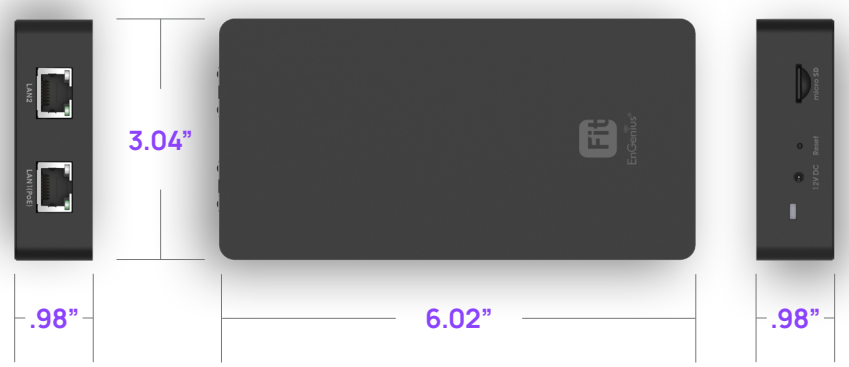
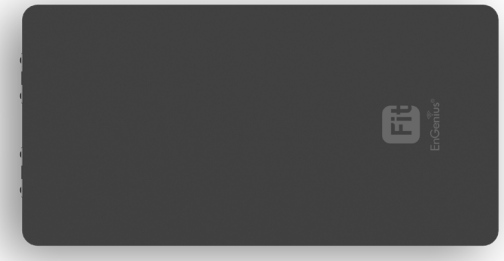
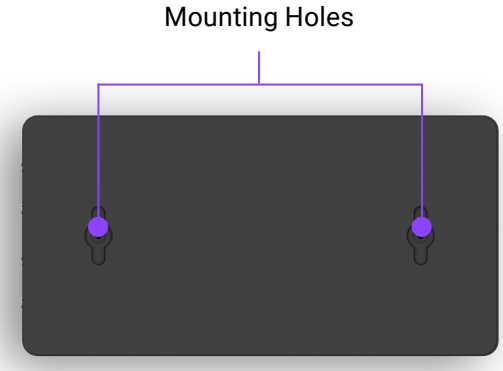
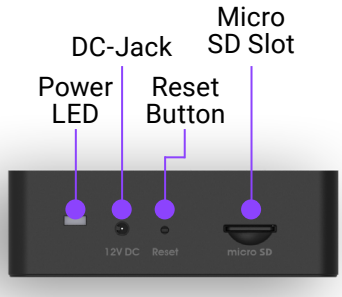
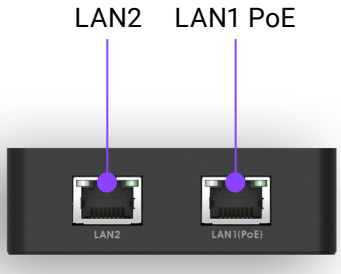
Manually:
- Serial Number

SYSTEM INFORMATION
Usage
CPU
Memory
Disk
System Up Time
Software Version
Check for Update
EMAIL ALERTS
Mail Server
SMTP Server
SMTP Port
Authentication
Username
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
SUPPORTED MODELS
Indoor Access Point
EWS357-FIT
EWS377-FIT
Outdoor Access Point
EWS850-FIT
L2 PoE Switch
EWS2910P-FIT
EWS7928P-FIT
EWS7928FP-FIT
EWS7952P-FIT
EWS7952FP-FIT

DIMENSIONS & WEIGHTS
(FitController (Per Device
Weight: 0.36 lb (165g)
Length: 6.02” (153mm)
Width: 3.04” (77.4mm)
Height: 0.98” (25mm)
Packaging
Weight: 0.57 lb (260g)
Length: 6.99” (177.75mm)
Width: 3.99” (101.5mm)
Height: 1.71” (43.5mm)
Certification
FCC
IC
Package Contents
1 – FitController
1 – Screw Position Identifier
1 – Wall Mount Screw Kit
(Exclude Power Adapter)
Warranty
1 Year

Product Dimensions



Product Images