EnGenius Cloud Security Gateway

One Solution. No complexity.

The EnGenius Cloud security gateway unifies your network perfectly, providing your IT team with an incredibly easy setup, enterprise-level security, and an end-to-end network solution that can be cloud-managed from absolutely anywhere. The gateway is that crucial first line of defense—improving the flow of network traffic while delivering an extra layer of protection against increasingly sophisticated cyberattacks and malware.

High Speed 2.5 Gigabit WAN and LAN Ports

The security gateway has two WAN and two LAN ports capable of up to 2.5G speeds—more than double the speed of most gateways today. The gateway has not only high-speed Ethernet connections but a high inline 2.5Gbps architecture for superior uplink and downlink transmissions without the bottlenecks.

High-Efficiency Stateful Firewall

The EnGenius security gateway has a stateful firewall with maximum throughput up to 2.35Gbps while quickly blocking the types of attacks that exploit protocol vulnerabilities. The stateful firewall integrates corporate security policies and real-time filtering of malicious internet traffic.

Uninterrupted Connection with WAN & Cellular Link

The dual 2.5 Gigabit WAN ports are capable of highly efficient load-balancing, increasing overall WAN bandwidth. The gateway also features redundant WAN link and cellular failover, automatically switching itself to a backup WAN or 3G/4G/5G network in the event of WAN uplink failure.

Secure Site-To-Site and Client VPN

The EnGenius SECURITY GATEWAY features site-to-site and client VPN that can be activated in a few clicks without the hassle of configuring all VPN detail parameters, allowing businesses to create secure, private connections for communication and remote work.

Self-Healing Auto VPN

EnGenius Cloud continually monitors EnGenius gateway VPN connections and automatically updates VPN parameters to all peers while maintaining VPN connection even with WAN IP address reassignment or port forwarding changes.

Features & Benefits

- Simple, unified cloud management for any size business.
- Intuitive and centralized device visibility from anywhere.
- Quad core 1.6 GHz processor for greater speed and power.
- Dual 2.5GbE WAN and Dual 2.5GbE LAN for maximum performance.
- 2.5 GbE PoE+ to power up a Wi-Fi 6E AP, IP camera or IP phone.
- Built-in load balancing and safeguards with dual-WAN and cellular failover.
- Enhance security with a high-throughput firewall.
- Quick VPN and VLAN setup for easy configurations.
- Fast Site-to-site VPN and Client VPN for secure connections.
- Self-healing AUTO VPN to minimize disruption.
- Passthrough mode for easy integration into existing networks.
- TPM chipset to enhance the security level of the gateway.
- Touchless system maintenance and automatic updates.
- No licensing or subscription fees needed.

### ESG510

Benefits for Your Business

End to End Unified Cloud Management Solution

Provide businesses with a next-generation cloud solution that simplifies the management of networks with enterprise security gateways, reliable gigabit switching, and future-proof wireless access points through a single pane of glass or intuitive mobile app.
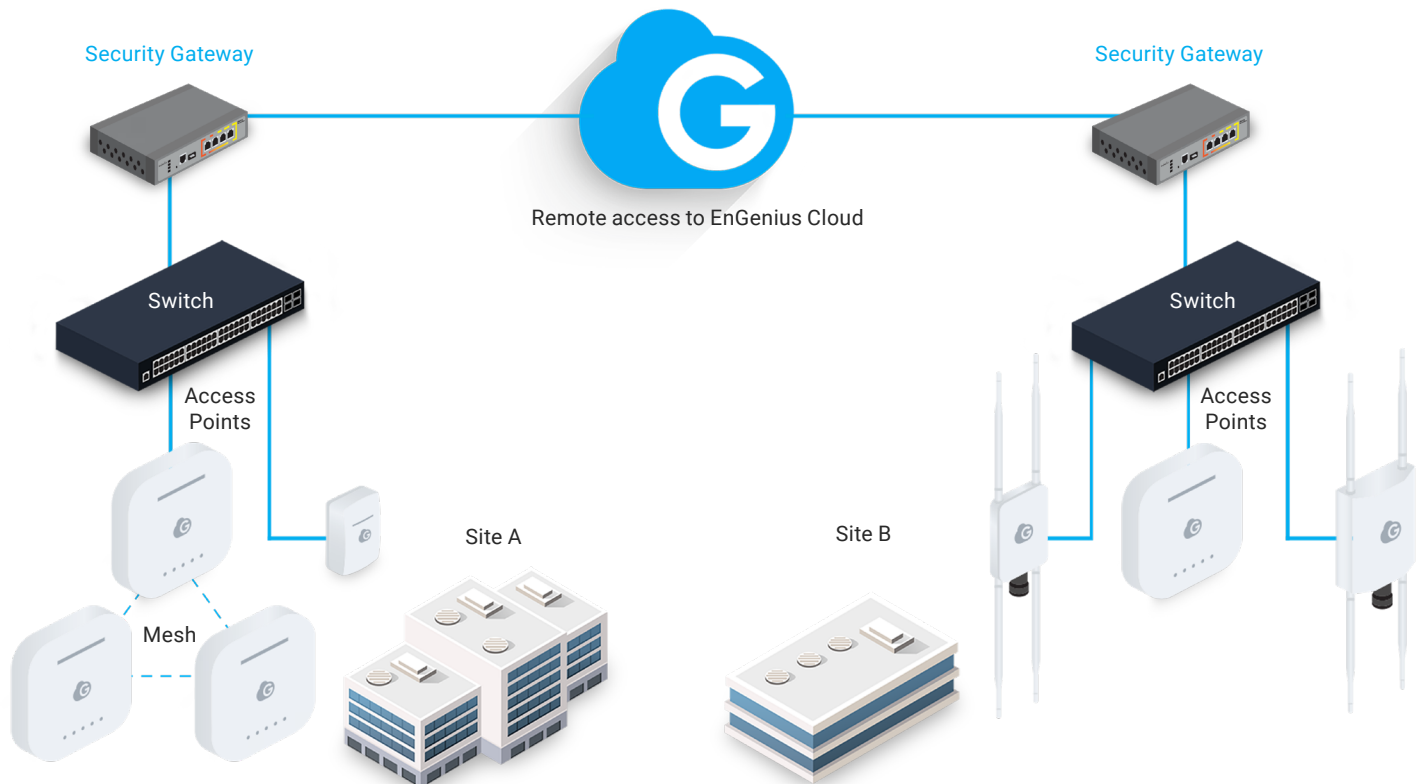

High-Speed Ports for Optimal Performance

Businesses can meet higher network speed demands through the dual 2.5 gigabit WAN and LAN ports to ensure a reliable, smooth connection for external and in-line networking without any bottlenecks.
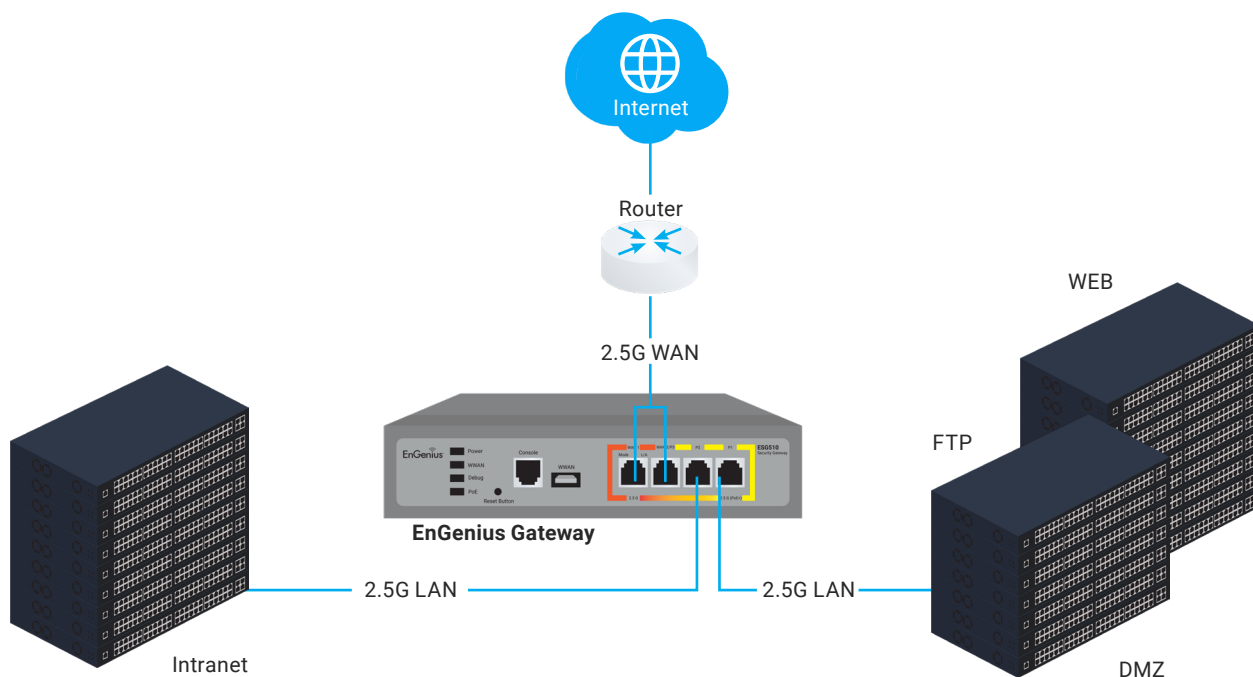
Protect Networks without Sacrificing Performance

EnGenius Security Gateways protect business networks from threats and attacks without sacrificing performance. The stateful firewall of the gateway integrates corporate security policies and real-time filtering of malicious internet traffic while delivering high throughput.
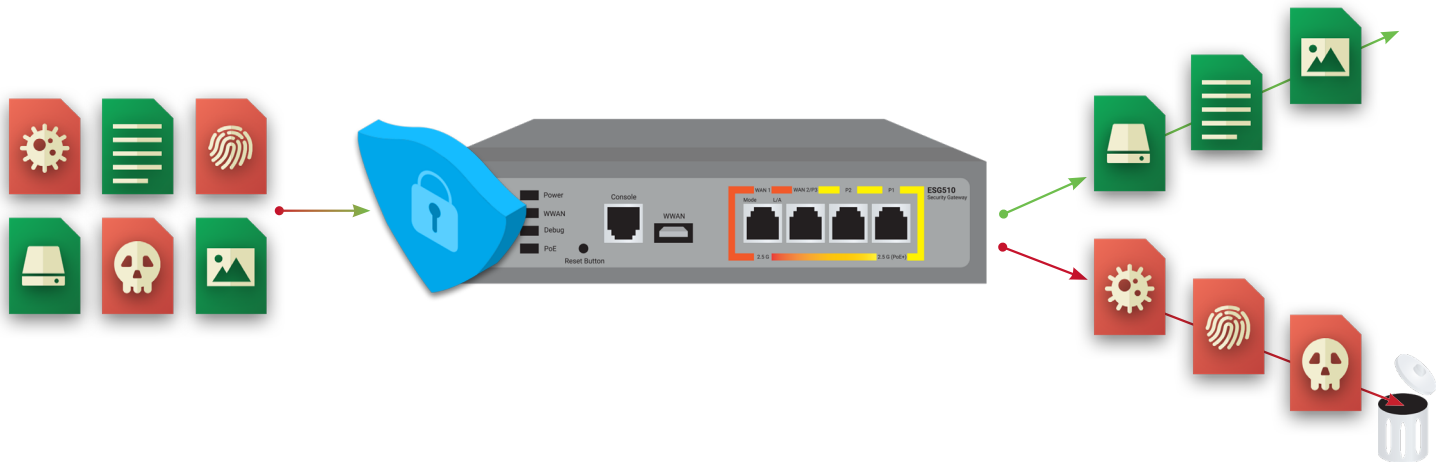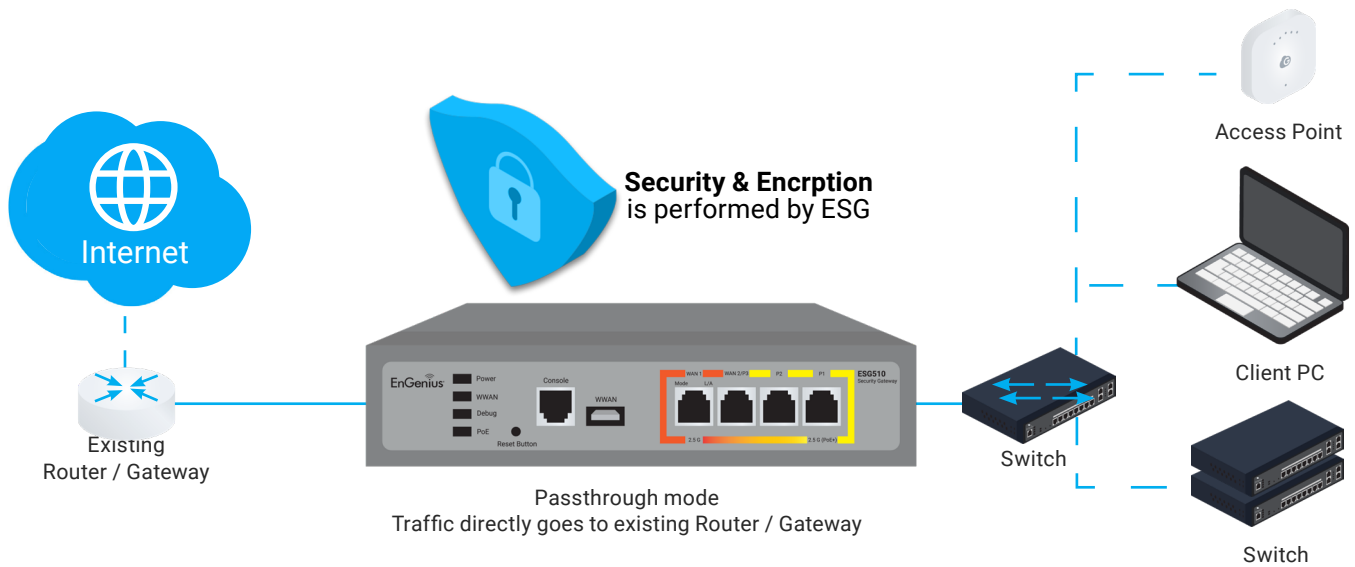

Stay Connected with Faster WAN Speeds

Businesses can stay connected through the security gateway's secondary 2.5 gigabit WAN port or a cellular dongle. The dual WAN ports are ready for load balancing to increase WAN bandwidth or redundancy links. The gateway's failover option can provide continuous connectivity through a 3G/4G/5G network or the secondary WAN to minimize disruption to business networks.

WAN 1 — ISP1

Failover
WAN 2 — ISP2

3G / 4G
Failover — ISP3

ESG510
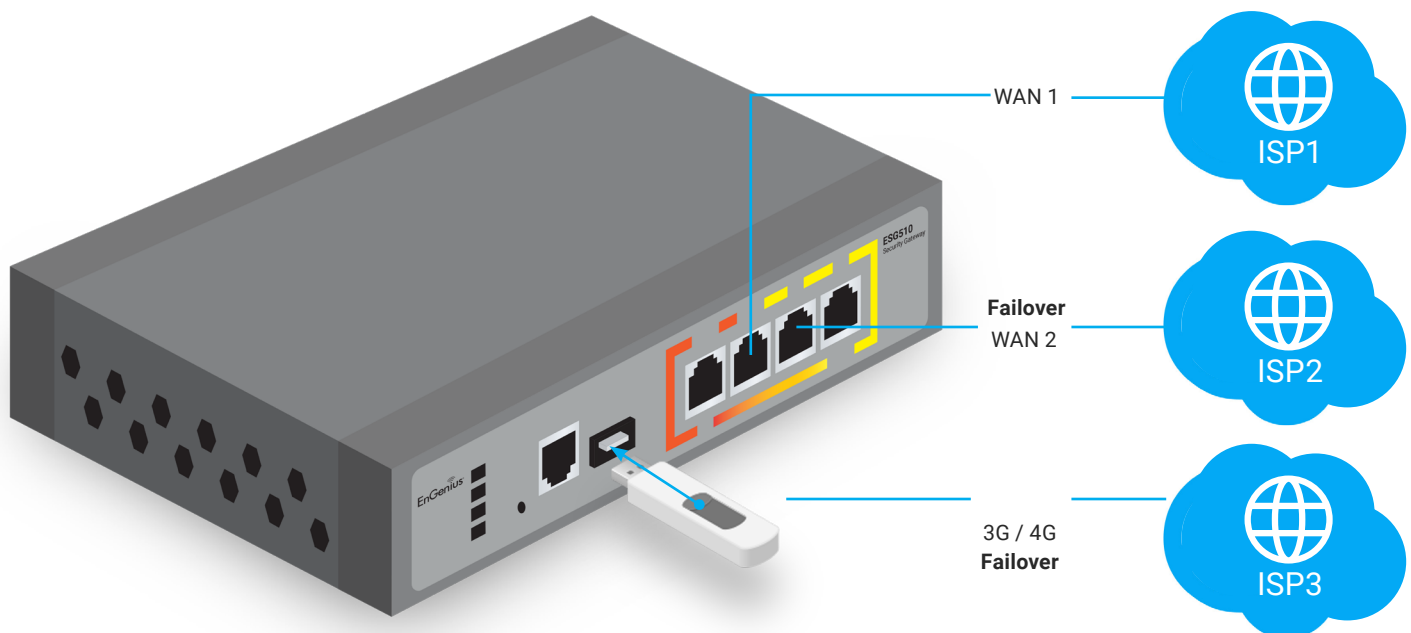
Secure Any Existing Network

The EnGenius Security Gateway can be placed on and secure any business network. The security gateway's "passthrough" mode will provide enterprise security protection and monitoring without affecting or disrupting existing gateway or router function in the network.

Security & Encrption
is performed by ESG

Internet

Existing
Router / Gateway

Passthrough mode
Traffic directly goes to existing Router / Gateway

Switch

Access Point

Client PC

Switch

Secure Site-to-Site VPN and Client VPN

EnGenius Security Gateways enable businesses to create secure VPN connections for remote business sites and remote clients. Administrators can easily create fast site-to-site VPN tunnel connections maintaining corporate security policies for all remote business sites while keeping data and employees safe. Client VPN will secure private data communications between corporate headquarters and remote workers from anywhere.

Branch Office

VPN

Internet

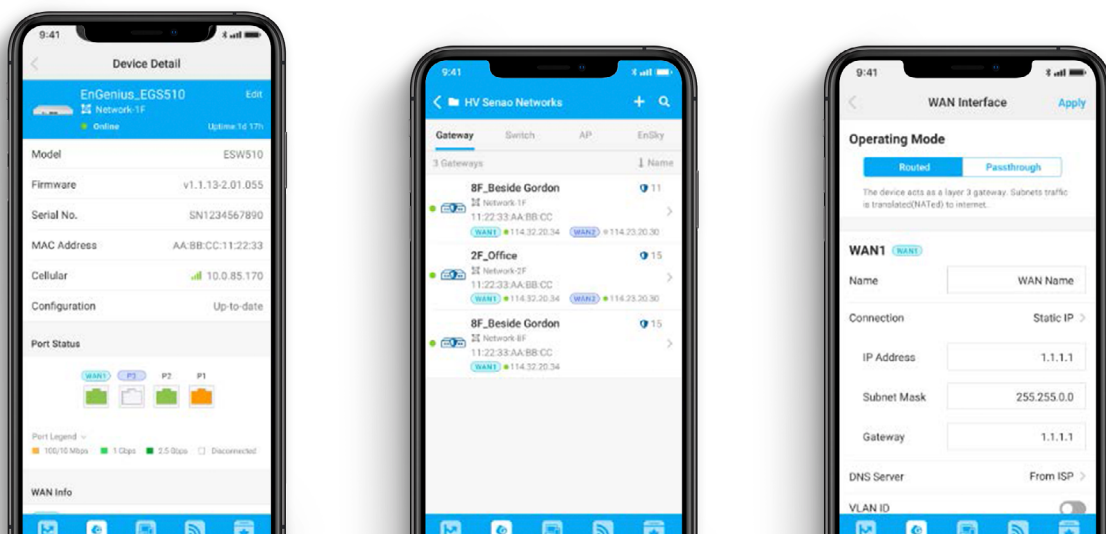VPN

Remote Client

Headquater
Office
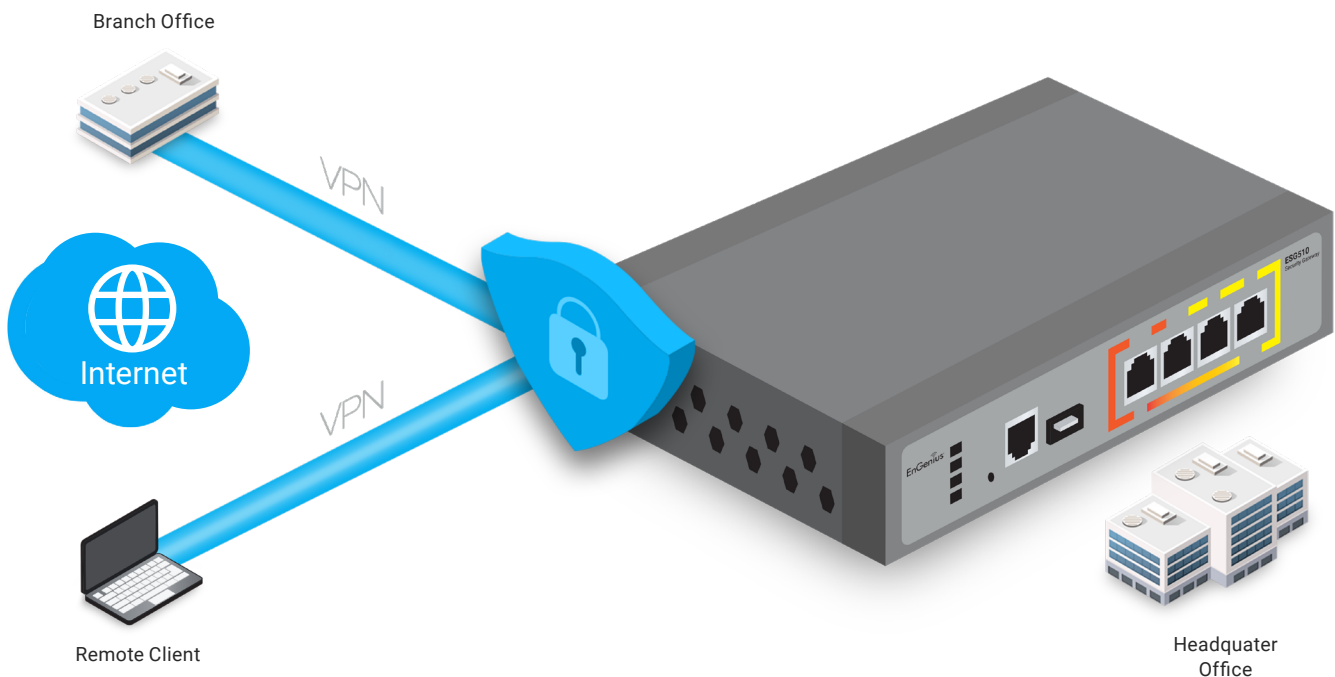
Easy Self-healing Auto VPN

EnGenius Security Gateways have the fastest VPN setup saving admins from time-consuming and complicated configurations. It takes just a few clicks to create a secure VPN connection without the hassle of configuring all the VPN detail parameters. EnGenius auto VPN will update WAN/IP parameters across sites to maintain connections in the event of WAN port configuration changes from the ISP.
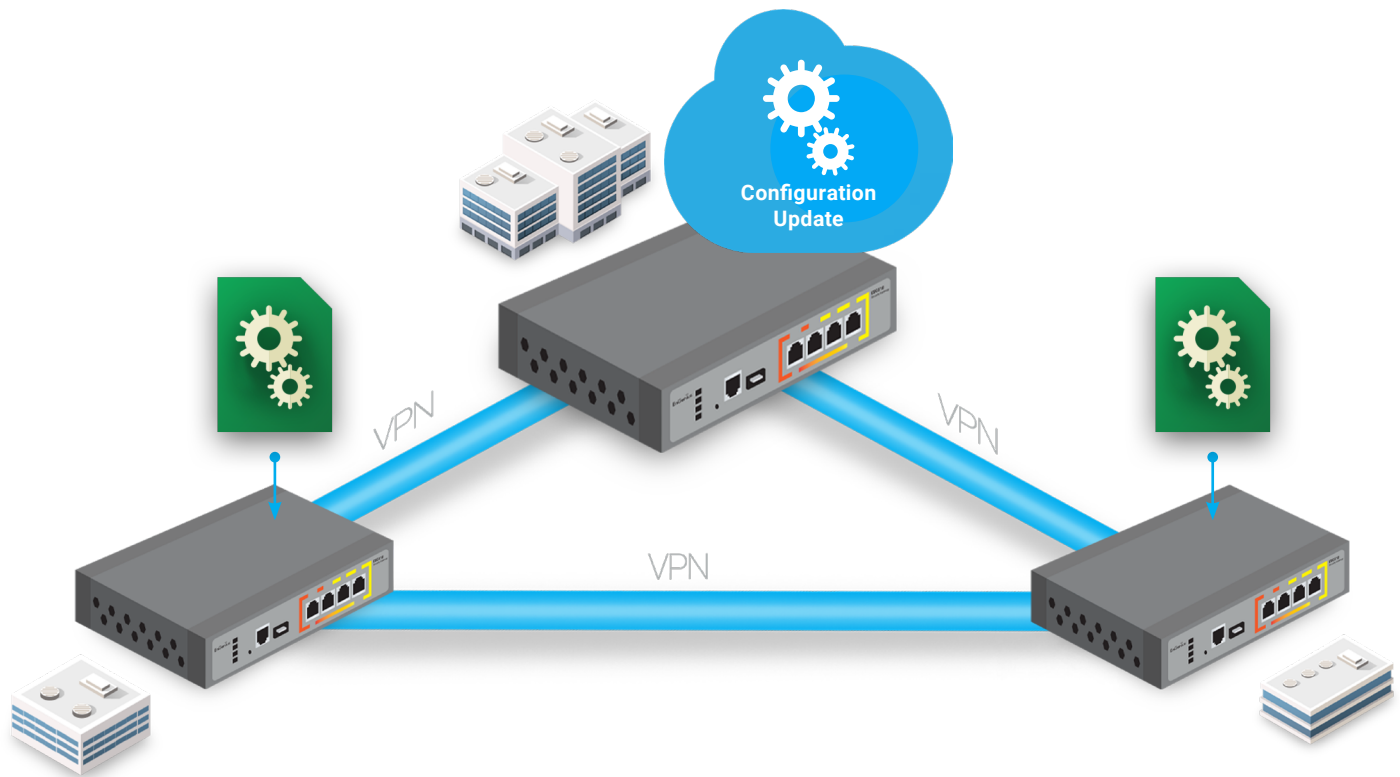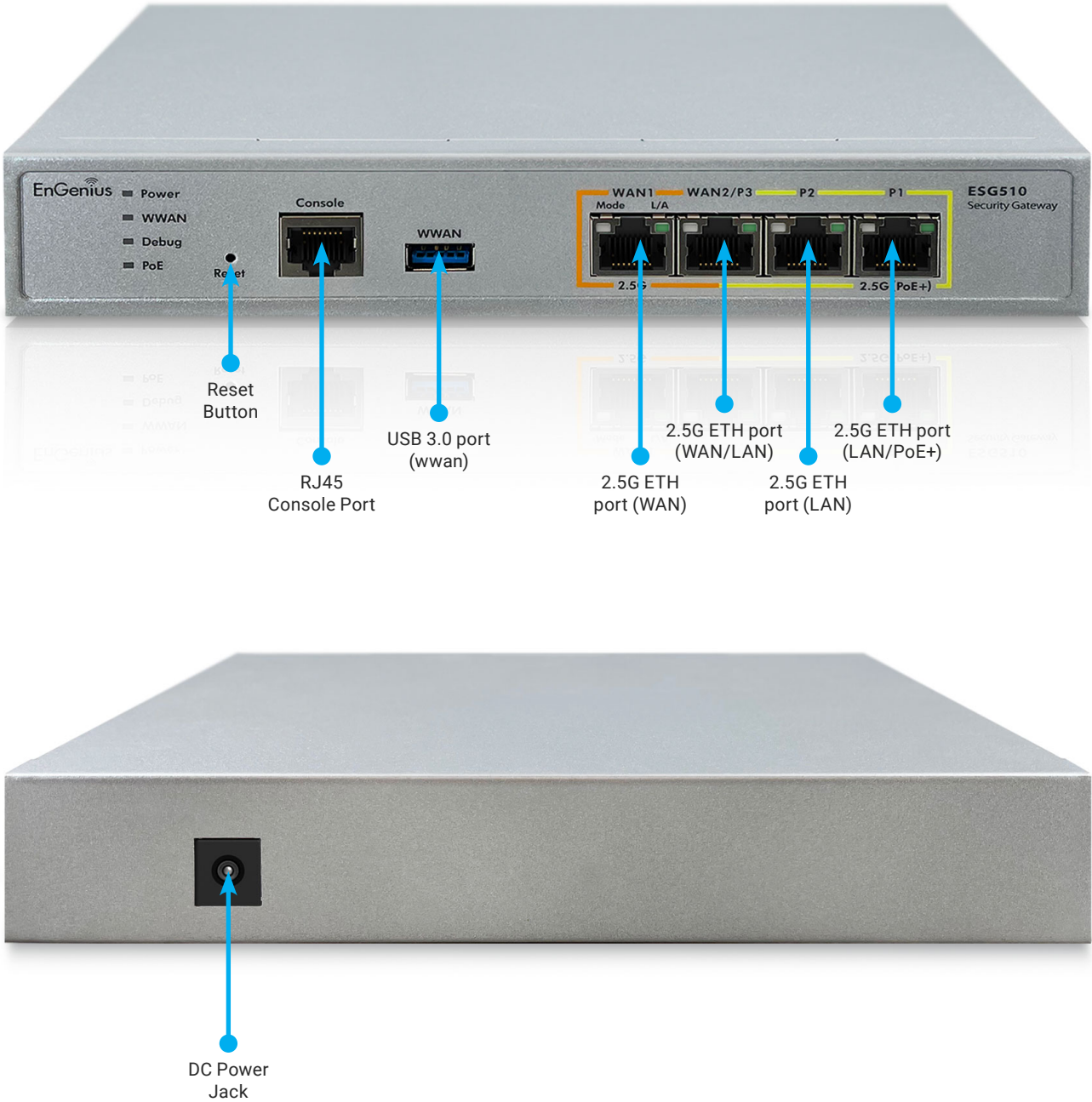

Remote Management On-the-Go

Easy setup and central management of the entire network from absolutely anywhere with EnGenius Cloud interface and Cloud To-Go mobile app.

ESG510

Technical Specifications

ESG510

CPU Processor
Quad-Core

Operating Frequency
1.6GHz

Memory
4GB

Storage
8GB

Network Ports (Copper Ports)
4 x 10/100/1000/2500 BASE-T, RJ-45 Ethernet ports

Console Port
1 x 10/100/1000, RJ-45 Ethernet port

PoE+ Capable Port
1 (802.3af/at) LAN (P1)

Mounting Method
Wall mount

USB Interface
1 x USB 3.0

Security Chip
TPM

PERFORMANCE & CAPACITY

Firewall (SPI Throughput)
4G

VPN Throughput
970 Mbps

Max. TCP Concurrent Sessions
1,000,000

Max. Concurrent VPN Tunnels
200

Max. VLAN
96

FIREWALL

Firewall Features
Stateful Packet Inspection

Policy Rules

Port Forwarding

1:1 NAT

Allow Inbound Services

VPN

Site-to-Site VPN
Mesh VPN/Hub-and-Spoke

Encryption
DES, 3DES, AES (256-bit)

Authentication
MD5, SHA1, SHA2 (512-bit)

Key Management
IKEv1 (x-auth, mode-config)

IKEv2 (EAP, configuration payload)

VPN Features
Site-to-Site VPN

Client VPN

Policy-based VPN

IPsec NAT traversal (NAT-T)

Dead Peer Detection (DPD)

Auto-VPN Connection

Auto NAT traversal

NETWORKING

Operation Mode
Routed/Passthrough

Multiple WANS
Dual (WAN 1 & WAN/P3)

Bandwidth Limit
Per Interface/Per Client

Traffic Load Balancing
WAN load balancing with WRR

Networking Features

Static Route

Multiple WANs

USB Cellular

User Authentication

PPPoE

VLAN Tagging

Captive Portal

Custom Splash Page

Dynamic Routing

Bandwidth Limit

Traffic Load Balancing

DHCP client/server/relay

Dynamic DNS support

ENVIRONMENTAL & PHYSICAL

Power
54V/1.2A

Operating Temperature
0°C to 40°C

Humidity (non-condensing)
5 to 95% non-condensing

ENVIRONMENTAL & PHYSICAL

Package Contents
Power adapter

Power cord

RJ-45 Console Cable

Wall Mount Kit

Quick Installation Guide

Dimensions & Weights Device
Weight: 2.14 lbs. (.97 kg)

Width: 8.27" (210 mm)

Length: 7.07" (179.5 mm)

Height: 1.38" (35 mm)

COMPLIANCE & WARRANTY

Regulatory Compliance
FCC Part 15 (Class B)

IC

CE EMC (Class B)

RCM

BSMI

Certifications
CE, FCC, IC

Warranty
2 years

ESG510 Gateway

EnGenius

Power
WWAN
Debug
PoE

Console

WWAN

WAN1   WAN2/P3   P2   P1   ESG510
Mode   L/A   Security Gateway

2.5G   2.5G (PoE+)

Reset

Reset
Button

RJ45
Console Port

USB 3.0 port
(wwan)

2.5G ETH
port (WAN)

2.5G ETH port
(WAN/LAN)

2.5G ETH
port (LAN)

2.5G ETH port
(LAN/PoE+)

DC Power
Jack

Plug & Play with Zero Configuration

Scan & Go

EnGenius Cloud To-Go

Download on the App Store

ANDROID APP ON Google play

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.

Version: 09/2022