EnGenius Cloud-managed VPN Firewall

Higher efficiency, enhanced security, and unified Cloud management

The EnGenius Cloud-managed VPN Firewall Series delivers more simplicity and security to business networks by providing the IT team with an effortless setup, enterprise-level security, and an end-to-end Cloud-managed network solution. The Cloud-managed VPN Firewall are the crucial first line of defense—improving network traffic flow while offering an extra layer of network protection and can be cloud-managed from anywhere.

Auto VPN for Site-to-site and Client - The VPN connection can be activated in a few clicks without configuration hassle for site-to-site or client. The AUTO VPN will update related VPN information to all peers for continuous VPN connection if the WAN IP/Ports are changed due to ISP or Router configuration.

Dual WAN Ports for Load Balance and Failover - The dual-ports for both WAN and LAN ensure a smooth and reliable connection for external and in-line networking without any bottleneck. The dual WAN ports can be used for load balancing or failover, and the USB interface for mobile wireless dongles is designed to seamlessly back up when both WANs fail.

High-Throughput Stateful Firewall - The firewall feature of Cloud-managed VPN Firewall offers protection against network threats by enforcing company security policies and filtering malicious internet traffic in real-time while delivering a significantly high throughput.

Integrated and Easy Management with Cloud - The Cloud-managed VPN Firewall allow users to set up quickly and manage their entire network from anywhere using a central cloud interface or mobile app. The end-to-end solution will also offer core functionalities through a cloud-based network security system that allows customers greater visibility across its line of access points, PoE switches, and a fully operative security gateway.

Features & Benefits

- Auto-VPN and NAT traversal
- **Network topology and VPN status**
- **Site-to-site VPN and client VPN**
- **Stateful firewall and firewall policy applies to all**
- **Dual-Wan load balance and failover**
- **Touchless system maintenance and automatic updates**
- **Multi-mode passthrough and routing options**
- **Unified with EnGenius Cloud management**
- **Management on the go with Cloud To-Go**

ESG320

ESG510

ESG610

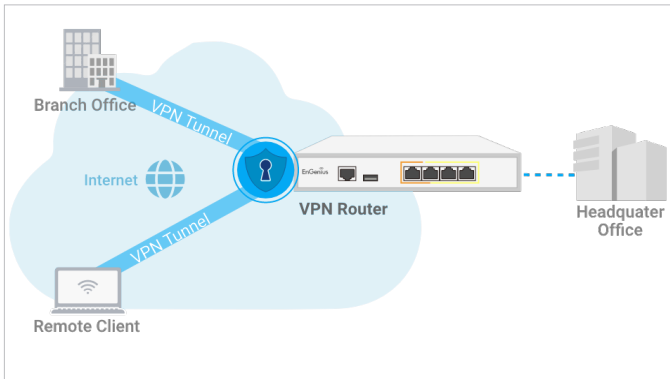
ESG620

Benefits for Your Business

Easy setup and Secure SD-WAN connections for Branch Sites

Streamline your remote work and communication with site-to-site and client VPN. Forget the complexity of traditional VPN configurations and embrace effortless, secure, and private connections for your business.


Effortlessly Maintain Network Connections with Self-healing Auto VPN

EnGenius Cloud automatically updates related VPN parameters to all peers, ensuring a seamless and secure connection even in case of WAN IP address reassignment or forwarding port changes.
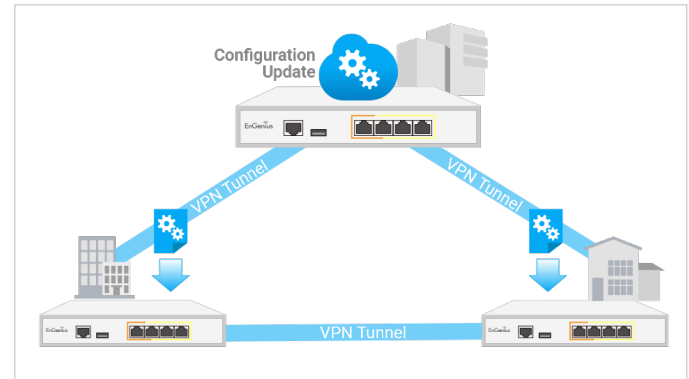

Achieve Flexible Connectivity through Dual WAN Ports Integration

The Cloud-managed VPN Firewall is capable of highly efficient load-balancing and redundancy, optimizing traffic by utilizing all available paths among multiple sites.
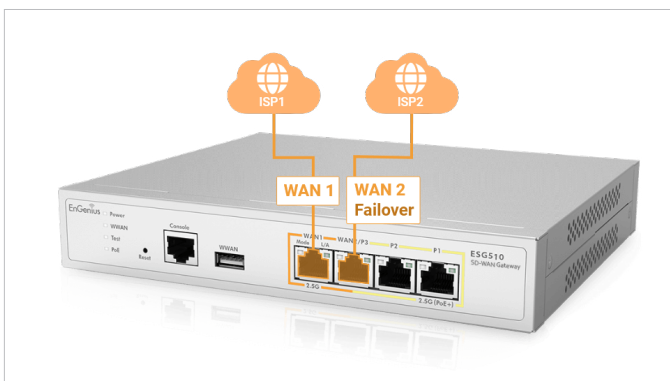

Uninterrupted Internet Connection with Cellular Failover

The advanced cellular WAN failover automatically switches to a redundant connection in case of interruption on all your WAN ports.
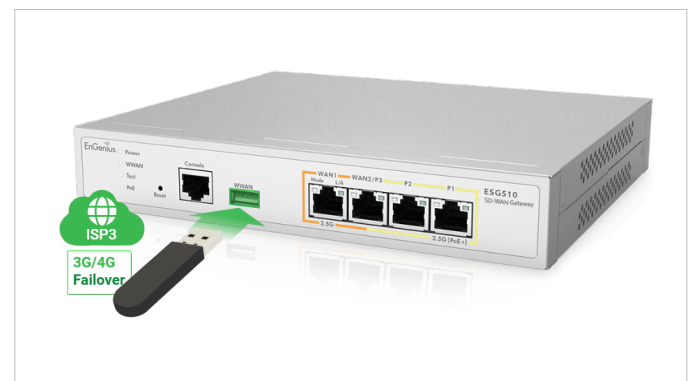
Achieve exceptional performance with 2.5 Gigabit WAN and LAN

EnGenius Cloud-managed VPN Firewall boosts four powerful 2.5G ports for your networks, is ideally suited for high-speed WAN environments, and offers in-line architecture design for seamless 2.5G uplink to your existing router.
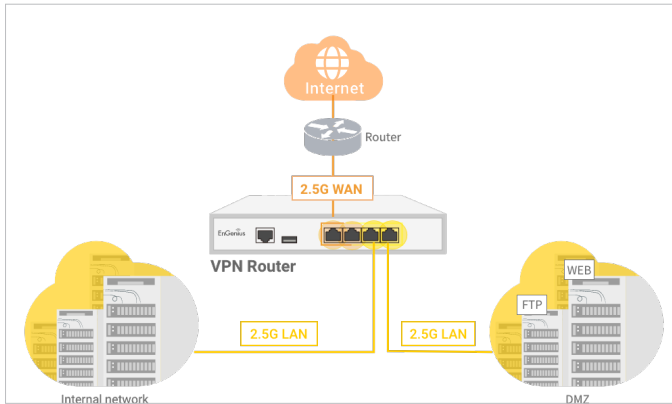

Protect Networks with High-throughput Stateful Firewall

Safeguard your business from potential threats and attacks with the stateful firewall that integrates robust corporate security policies and real-time filtering of malicious internet traffic, all while maintaining optimal network performance.


Passthrough Mode for Existing Network Gateway or Router

Maintain current routing settings and enhance security and monitoring capabilities with EnGenius Cloud-managed VPN Firewall's 'Passthrough' mode, seamlessly integrating with existing routers or gateways without disrupting your network configurations.
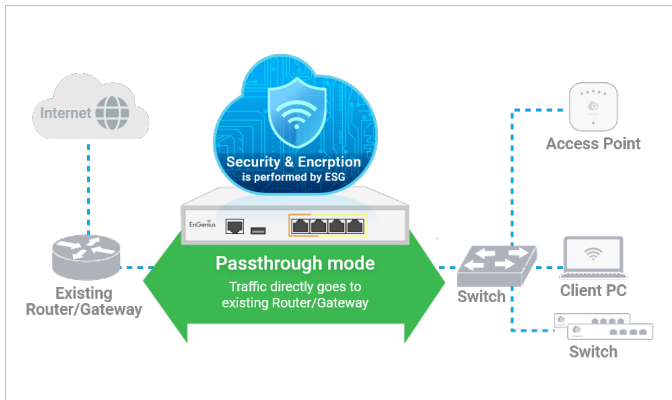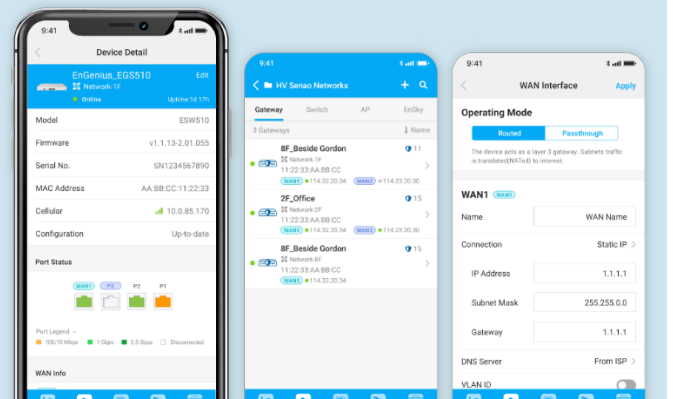

Unified Cloud-Management Integrating with APs and Switches

Experience effortless network management with EnGenius Cloud-managed and unified integration with Cloud-managed VPN Firewalls, APs, and switches. Monitor and control all your network devices with ease through a centralized, user-friendly interface.
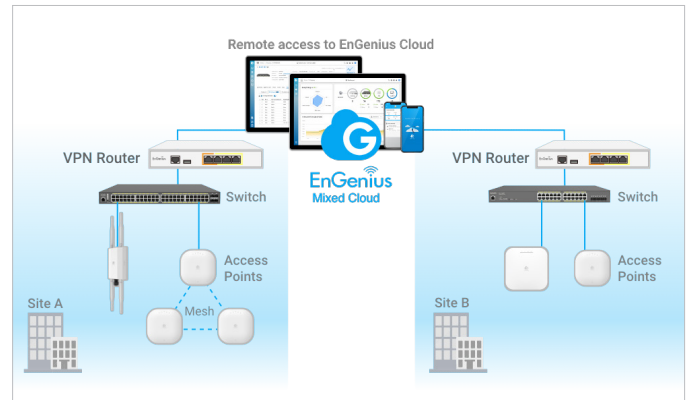
Remotely Manage VPN Firewall On-the-Go

Easily take control of your network from anywhere, anytime, with EnGenius Cloud-managed VPN Firewall. Seamless setup and centralized management of your networks with the Cloud To-Go mobile app.

EnGenius Cloud-managed VPN Firewall

Cloud-managed VPN Firewall				
Model Name	Gateway3 4G 1SFP	Gateway5 4mG	Gateway6 4mG	Gateway6 8mG 2SFP+
Model Number	ESG320	ESG510	ESG610	ESG620
Processor	Dual Core	Quad Core	Quad Core	Quad Core
Operating Frequency	2.1GHz	1.6GHz	2.2GHz	2.2GHz
Memory	4GB	4GB	8GB	8GB
Flash	8GB	8GB	8GB	16GB
RJ-45 Interface	4x1G	4x 2.5G	4x 2.5G	8x 2.5G
SFP interface	1xSFP	-	-	2x SFP+
PoE ports	1	1	1	4
PoE Standard	802.3 af/at	802.3 af/at	802.3 af/at	802.3 af/at
I/O Interfaces	1 x RJ-45 console/1 x USB 3.0	1 x RJ-45 console/1 x USB 3.0	1 x RJ-45 console/1 x USB 3.0	1 x RJ-45 console/1 x USB 3.0
Mounting Method	Wall mount	Wall mount	Wall mount	Rack mount
Security	TPM	TPM	TPM	TPM
Firewall (SPI throughput)	3G(*)	4G(*)	6.8G(*)	7.7G(*)
VPN throughput	900M(*)	970M(*)	1.5G(*)	1.5G(*)
Max. Concurrent VPN Tunnels	100(*)	200(*)	300(*)	300(*)
Max. Concurrent VPN Users	50(*)	250(*)	380(*)	380(*)
Max. TCP Concurrent Sessions	1,000,000	1,000,000	1,250,000	1,250,000
Max VLAN	16(*)	96(*)	160(*)	160(*)
Power	54V/1.2A	54V/1.2A	54V/1.2A	intermal 300w power
Dimensions	210 x 179.5 x 35 mm	210 x 179.5 x 35 mm	210 x 179.5 x 35 mm	330 x 230 x 44 mm

*Note : The performance no are estimated number for reference only.

Technical Specifications

CPU Processor

ESG320

Dual Core

ESG510/ESG610/ESG620

Quad Core

Operating Frequency

ESG320

2.1GHz

ESG510

1.6GHz

ESG610/ESG620

2.2GHz

Memory

ESG320/ESG510

4GB

ESG610/ESG620

8GB

Flash Storage

ESG320/ESG510/ESG610

8GB

ESG620

16GB

RJ-45 Interface

ESG320

4 x 1G

ESG510/ESG610

4 x 2.5G

ESG620

8 x 2.5G

SFP interface

ESG320

1 x SFP

ESG510/ESG610

-

ESG620

2 x SFP+

PoE Ports

ESG320/ESG510/ESG610

1

ESG620

4

PoE Standard

ESG320/ESG510/ESG610/ESG620

802.3 af/at

I/O Interfaces

ESG320/ESG510/ESG610/ESG620

1 x RJ-45 console/1 x USB 3.0

Mounting Method

ESG320/ESG510/ESG610

Wall mount

ESG620

Rack mount

Security

ESG320/ESG510/ESG610/ESG620

TPM

Perfomance & Capacity

Firewall (SPI throughput)

ESG320

3 Gbps

ESG510

4G

ESG610

6.8G

ESG620

7.7G

VPN Throughput

ESG320

900M

ESG510

970M

ESG610/ESG620

1.5G

Max. Concurrent VPN Tunnels

ESG320

100

ESG510

200

ESG610/ESG620

300

Max. Concurrent VPN Users

ESG320

50

ESG510

250

ESG610/ESG620

380

Max. TCP Concurrent Sessions

ESG320/ESG510

1,000,000

ESG610/ESG620
1,250,000

Max VLAN

ESG320
16
ESG510
96
ESG610/ESG620
160

Firewall

Firewall Features

ESG320/ESG510/ESG610/ESG620
Stateful Packet Inspection
Policy Rules
Port Forwarding
1:1 NAT
Allow Inbound Services
Layer 7 Application Firewall

VPN

Site-to-Site VPN

ESG320/ESG510/ESG610/ESG620
Mesh VPN/ Hub-and-Spoke

Encryption

ESG320/ESG510/ESG610/ESG620
3DES, AES (256/192/128-bit)

Authentication

ESG320/ESG510/ESG610/ESG620
MD5, SHA1, SHA2 (256-bit)

Key Management

ESG320/ESG510/ESG610/ESG620
IKEv1 (x-auth, mode-config)
IKEv2 (EAP, configuration payload)

VPN Features

ESG320/ESG510/ESG610/ESG620
Site-to-Site VPN
Client VPN(IPsec/SecuPoint SSL)
Policy-based VPN
IPSec NAT traversal (NAT-T)
Dead Peer Detection (DPD)
Auto-VPN Connection
Auto NAT traversal

Networking

Operation Mode

ESG320/ESG510/ESG610/ESG620
Routed/Passthrough

Multiple WANs

ESG320/ESG510/ESG610/ESG620
Dual

Bandwidth Limit

ESG320/ESG510/ESG610/ESG620
Per client/Per Interface

Traffic Load Balancing

ESG320/ESG510/ESG610/ESG620
WAN load balancing with WRR

Networking Features

ESG320/ESG510/ESG610/ESG620
Static Route
Multiple WANs
USB Cellular
User Authentication
PPPoE
VLAN Tagging
Captive Portal
Custom Splash Page
Bandwidth Limit
Traffic Load Balancing
DHCP client/server/relay
Dynamic DNS support
Policy Based Routing

Environmental & Physical

Power

ESG320/ESG510/ESG610
54V/1.2A
ESG620
intermal 300w power

Operation Temperature

ESG320/ESG510/ESG610/ESG620
0°C to 40°C

Humidity (non-condensing)

ESG320/ESG510/ESG610/ESG620
5 to 95% non-condensing

Dimensions & Weight

Dimensions

ESG320/ESG510/ESG610	
210 x 179.5 x 35 mm	
ESG620	
330 x 230 x 44 mm	

Package Contents

ESG320/ESG510/ESG610	
Power adapter	
Power cord	
RJ-45 Console Cable	
Wall Mount Kit	
Product Card	
ESG620	
Power cord	
RJ-45 Console Cable	
Rack Mount Kit	
Product Card	

Compliance & Warranty

Regulatory Compliance

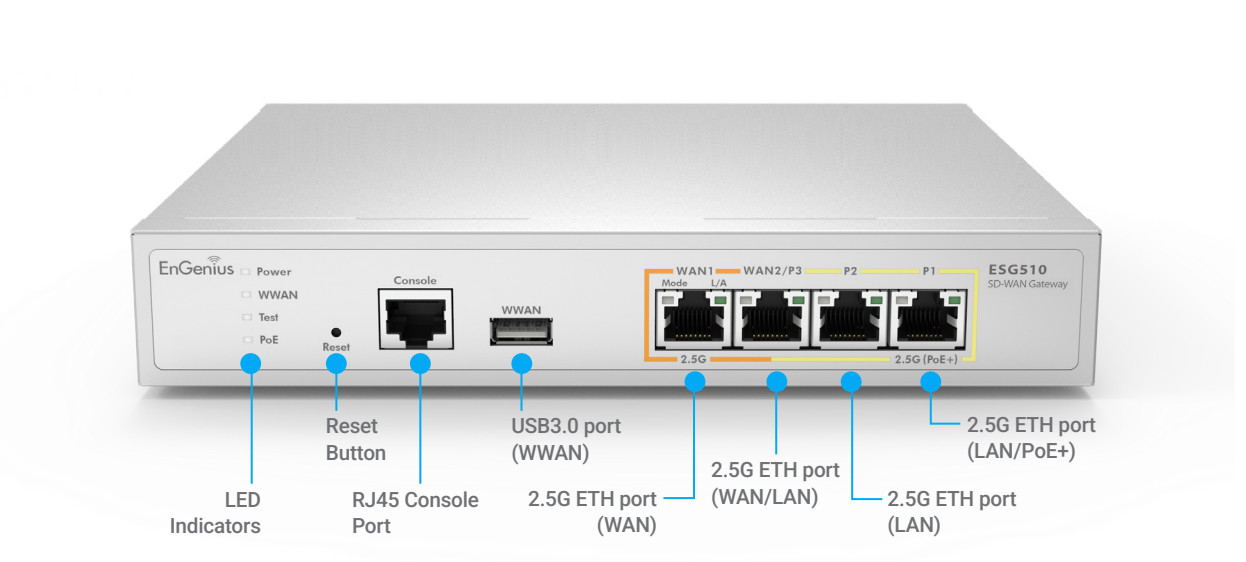|	
ESG320/ESG510/ESG610/ESG620	
FCC Part 15 (Class B)	
IC	
CE EMC	
CB	
UL	

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.
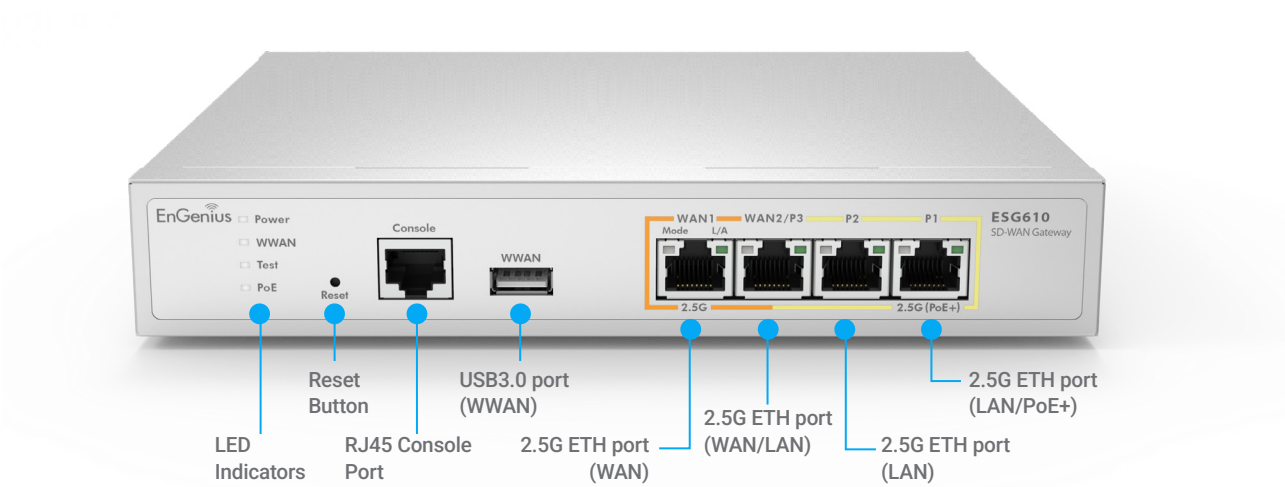
ESG320 Hardware Overview

LED
Indicators

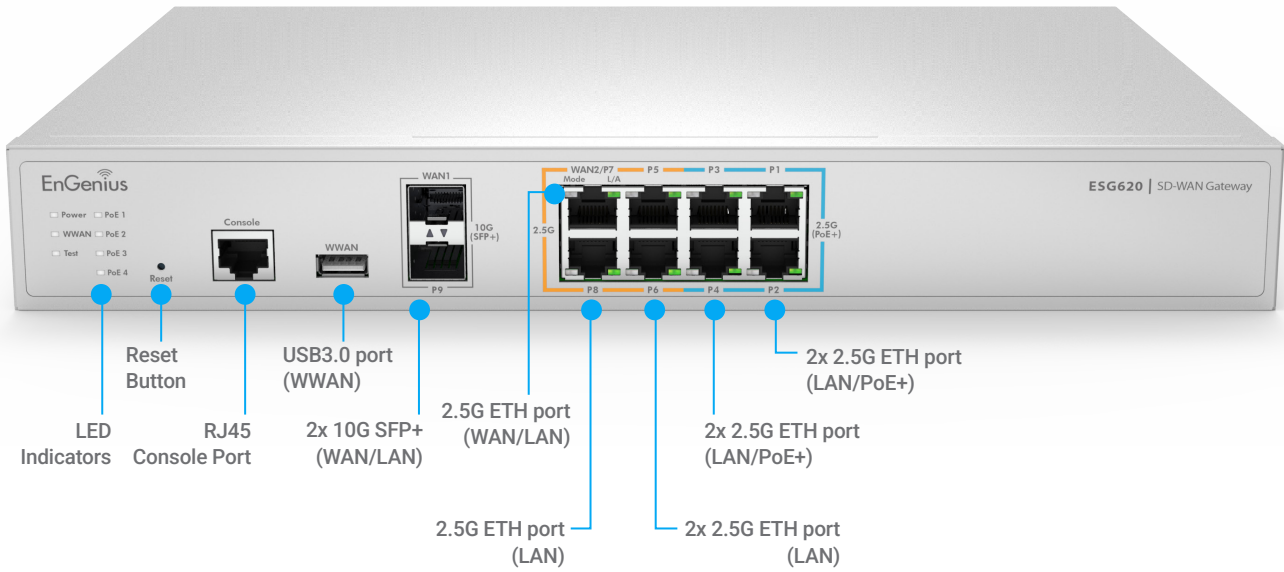Reset
Button

RJ45
Console Port

USB3.0 port
(WWAN)

1G SFP
(WAN1 Combo)

1G ETH port
(WAN1 Combo)

1G ETH port
(WAN2/LAN)

1G ETH port
(LAN)

ETH port
(LAN/PoE+)

ESG510 Hardware Overview

LED
Indicators

Reset
Button

RJ45 Console
Port

USB3.0 port
(WWAN)

2.5G ETH port
(WAN)

2.5G ETH port
(WAN/LAN)

2.5G ETH port
(LAN)

2.5G ETH port
(LAN/PoE+)

ESG610 Hardware Overview

EnGenius
☐ Power
☐ WWAN
☐ Test
☐ PoE

Reset

Console

WWAN

WAN1 Mode | WAN2/P3 L/A | P2 | P1 | **ESG610** SD-WAN Gateway

2.5G | 2.5G (PoE+)

LED Indicators

Reset Button

RJ45 Console Port

USB3.0 port (WWAN)

2.5G ETH port (WAN)

2.5G ETH port (WAN/LAN)

2.5G ETH port (LAN)

2.5G ETH port (LAN/PoE+)

ESG620 Hardware Overview

EnGenius
☐ Power ☐ PoE 1
☐ WWAN ☐ PoE 2
☐ Test ☐ PoE 3
☐ PoE 4

Reset

Console

WWAN

WAN1

10G (SFP+)

P9

WAN2/P7 Mode L/A | P5 | P3 | P1 | **ESG620** | SD-WAN Gateway

2.5G

P8 | P6 | P4 | P2

2.5G (PoE+)

LED Indicators

Reset Button

RJ45 Console Port

USB3.0 port (WWAN)

2x 10G SFP+ (WAN/LAN)

2.5G ETH port (WAN/LAN)

2.5G ETH port (LAN)

2x 2.5G ETH port (LAN)

2x 2.5G ETH port (LAN/PoE+)

2x 2.5G ETH port (LAN/PoE+)

Plug & Play with Zero Configuration

Scan & Go

EnGenius Cloud To-Go