



## EnGenius Cloud-managed VPN Router

Higher efficiency, enhanced security, and unified Cloud management

The EnGenius Cloud-managed VPN Router 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 Router 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 Router 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 Router 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

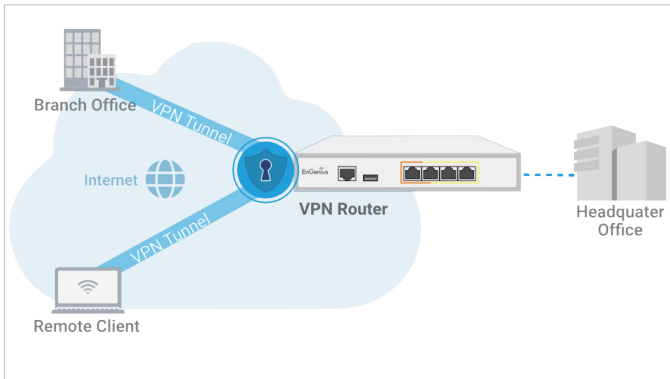


ESG620

## Benefits for Your Business

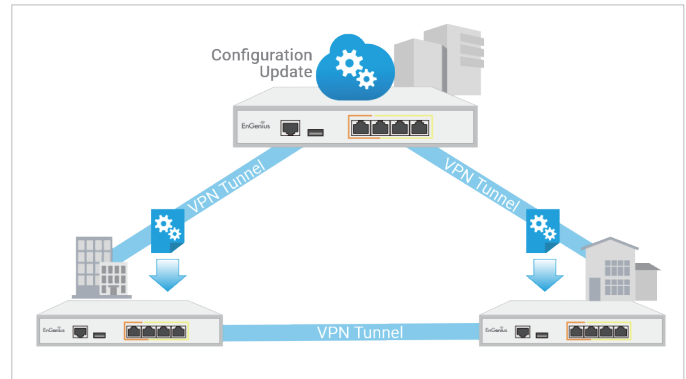
### Easy setup and Secure SD-WAN connections for Branch Sites

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.



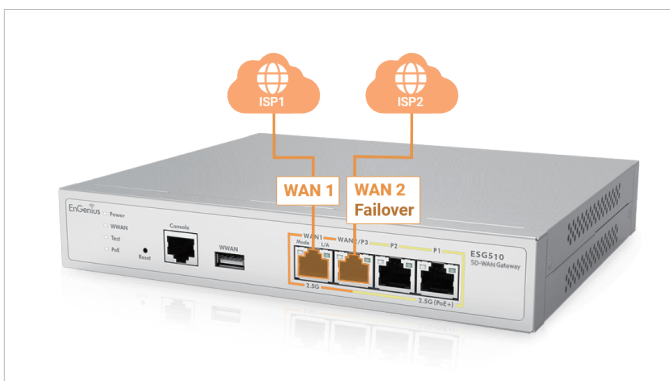
### Effortlessly Maintain Network Connections with Self-healing Auto VPN

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.



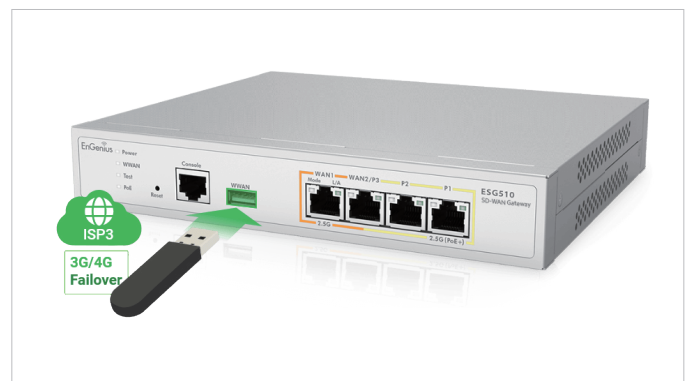
### Achieve Flexible Connectivity through Dual WAN Ports Integration

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



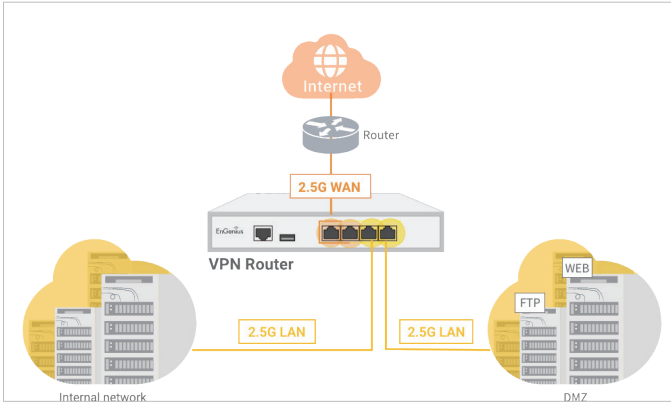
### Uninterrupted Internet Connection with Cellular Failover

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 Router 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.



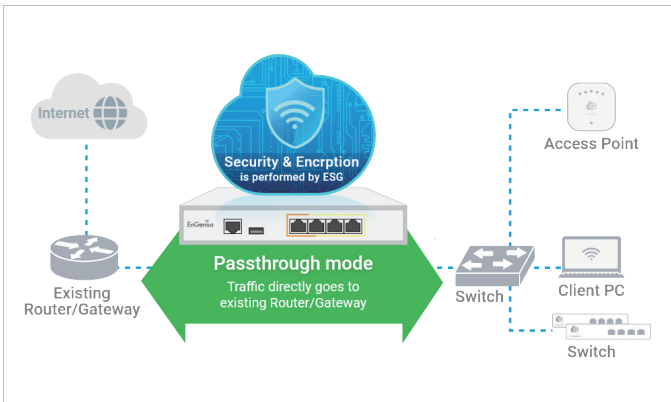
## Protect Networks with High-throughput Stateful Firewall

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.



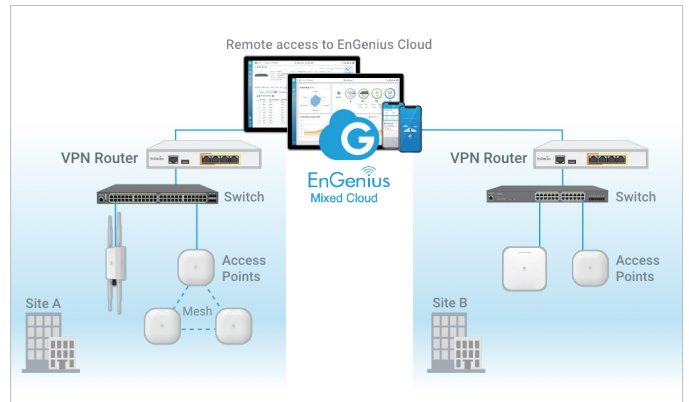
## Passthrough Mode for Existing Network Gateway or Router

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



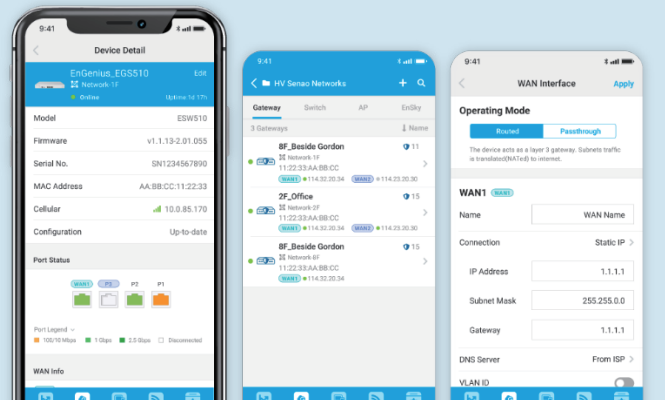
## Unified Cloud-Management Integrating with APs and Switches

Experience effortless network management with EnGenius Cloud-managed and unified integration with Cloud-managed VPN Routers, APs, and switches. Monitor and control all your network devices with ease through a centralized, user-friendly interface.



## Remotely Manage VPN Router On-the-Go

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



## EnGenius Cloud-managed VPN Router

| Cloud-managed VPN Router     |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                              |  |  |  |  |
| 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                                                                           | internal 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                    |

|                      |
|----------------------|
| <b>ESG610/ESG620</b> |
| 1,250,000            |
| <b>Max VLAN</b>      |
| <b>ESG320</b>        |
| 16                   |
| <b>ESG510</b>        |
| 96                   |
| <b>ESG610/ESG620</b> |
| 160                  |

## Firewall

|                                    |
|------------------------------------|
| <b>Firewall Features</b>           |
| <b>ESG320/ESG510/ESG610/ESG620</b> |
| Stateful Packet Inspection         |
| Policy Rules                       |
| Port Forwarding                    |
| 1:1 NAT                            |
| Allow Inbound Services             |
| Layer 7 Application Firewall       |

## VPN

|                                    |
|------------------------------------|
| <b>Site-to-Site VPN</b>            |
| <b>ESG320/ESG510/ESG610/ESG620</b> |
| Mesh VPN/ Hub-and-Spoke            |
| <b>Encryption</b>                  |
| <b>ESG320/ESG510/ESG610/ESG620</b> |
| 3DES, AES (256/192/128-bit)        |
| <b>Authentication</b>              |
| <b>ESG320/ESG510/ESG610/ESG620</b> |
| MD5, SHA1, SHA2 (256-bit)          |
| <b>Key Management</b>              |
| <b>ESG320/ESG510/ESG610/ESG620</b> |
| IKEv1 (x-auth, mode-config)        |
| IKEv2 (EAP, configuration payload) |
| <b>VPN Features</b>                |
| <b>ESG320/ESG510/ESG610/ESG620</b> |
| 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

|                                    |
|------------------------------------|
| <b>Operation Mode</b>              |
| <b>ESG320/ESG510/ESG610/ESG620</b> |
| Routed/Passthrough                 |
| <b>Multiple WANs</b>               |
| <b>ESG320/ESG510/ESG610/ESG620</b> |
| Dual                               |
| <b>Bandwidth Limit</b>             |
| <b>ESG320/ESG510/ESG610/ESG620</b> |
| Per client/Per Interface           |
| <b>Traffic Load Balancing</b>      |
| <b>ESG320/ESG510/ESG610/ESG620</b> |
| WAN load balancing with WRR        |
| <b>Networking Features</b>         |
| <b>ESG320/ESG510/ESG610/ESG620</b> |
| 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

|                                    |
|------------------------------------|
| <b>Power</b>                       |
| <b>ESG320/ESG510/ESG610</b>        |
| 54V/1.2A                           |
| <b>ESG620</b>                      |
| internal 300w power                |
| <b>Operation Temperature</b>       |
| <b>ESG320/ESG510/ESG610/ESG620</b> |
| 0°C to 40°C                        |
| <b>Humidity (non-condensing)</b>   |
| <b>ESG320/ESG510/ESG610/ESG620</b> |
| 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

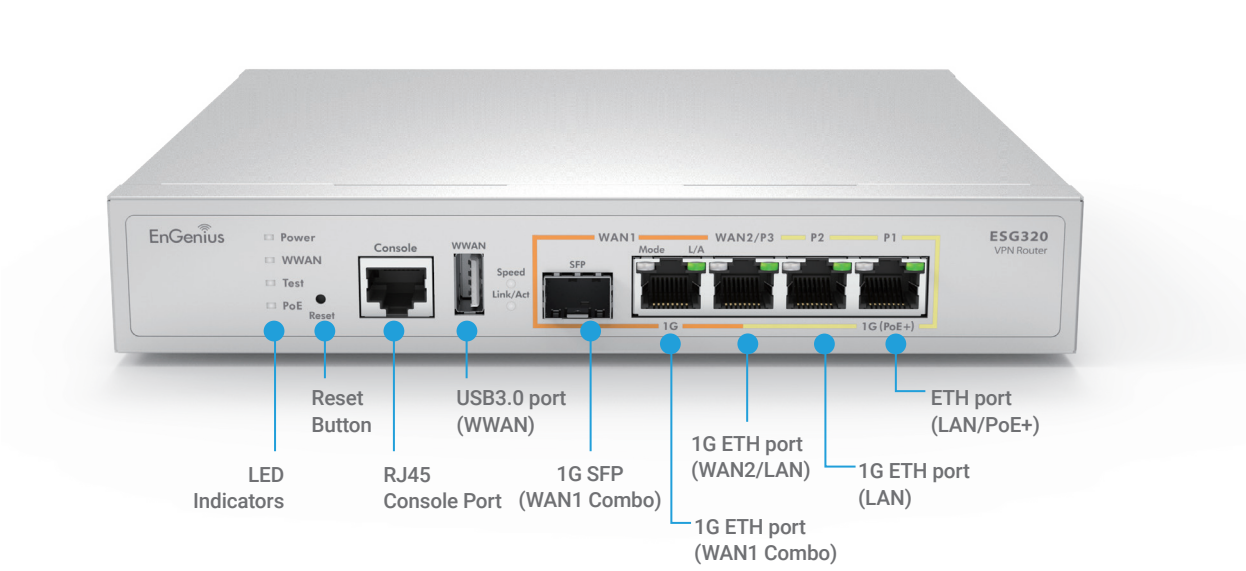
CE EMC

CB

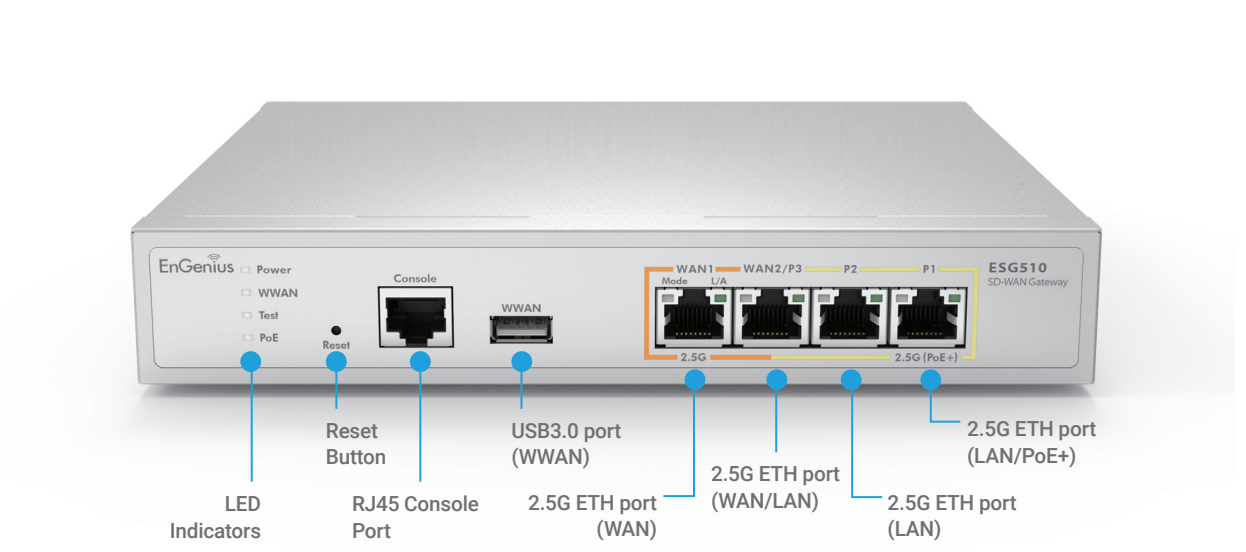
UL

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.

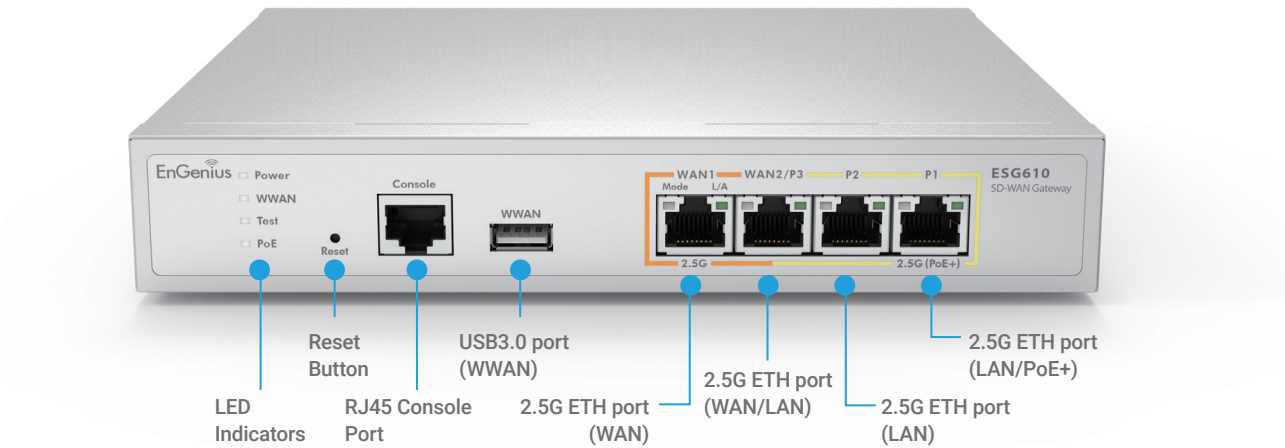
ESG320 Hardware Overview



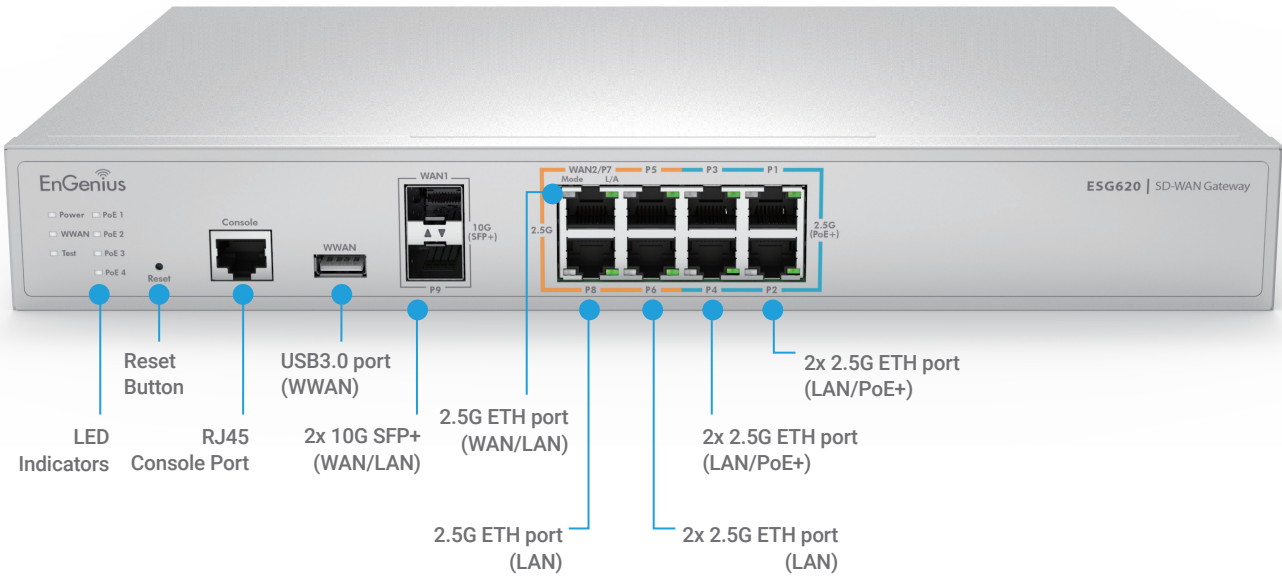
ESG510 Hardware Overview



ESG610 Hardware Overview



ESG620 Hardware Overview



## Plug & Play with Zero Configuration



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