

## Wi-Fi 5 AC1200 Dual Band VPN Security Router



### Powerful Wireless and VPN Security Solution

The innovation of the Internet has created tremendous worldwide opportunities for e-business and information sharing. It has become essential for businesses to focus more on network security issues. The demand for information security and wireless connection has become the primary concern for the enterprises. To fulfill this demand, PLANET has launched the all-in-one VR-300W5 and VR-300PW5 Wireless VPN Security Routers that carry several main categories across your network security deployments: **802.11ac**, **cybersecurity**, **SPI firewall security protection**, **policy auditing (content filtering, VPN tunnel and MAC/IP filtering)**, **AP controller**, **captive portal**, **RADIUS** and **easy management (Setup Wizard, DHCP Server and Dashboard)**. Furthermore, its Dual-WAN Failover, Outbound Load Balance and **High-Availability** features can improve the network efficiency while the web-based interface provides friendly and consistent user experience.



### Wireless 11ac Bring Excellent Data Link Speed

The VR-300W5 and VR-300PW5 are designed with high power amplifier and 4 highly-sensitive antennas which provide stronger signal and excellent coverage even in the wide-ranging or bad environment. With adjustable transmit power option, the administrator can flexibly reduce or increase the output power for various environments, thus reducing interference to achieve maximum performance. To provide extremely high-speed user experience, the VR-300W5 and VR-300PW5 adopt IEEE 802.11ac technology to extend the 802.11n 40MHz channel binding to 80MHz and the implementation of 256-QAM modulation where higher transmitting/

### Highlights

- Dual-WAN failover and Dual-WAN load balancing
- Complies with IEEE 802.11ac and IEEE 802.11a/b/g/n standards
- SSL VPN and robust hybrid VPN (IPSec/PPTP/L2TP over IPSec)
- Stateful Packet Inspection (SPI) firewall and content filtering
- Blocks DoS/DDOS attack, port range forwarding
- High Availability, AP Controller, Captive Portal and RADIUS
- IPv6, SNMP, PLANET DDNS and Universal Network Management System
- Compliant with the IEEE 802.3at PoE+ with PD alive check/schedule management (VR-300PW5)

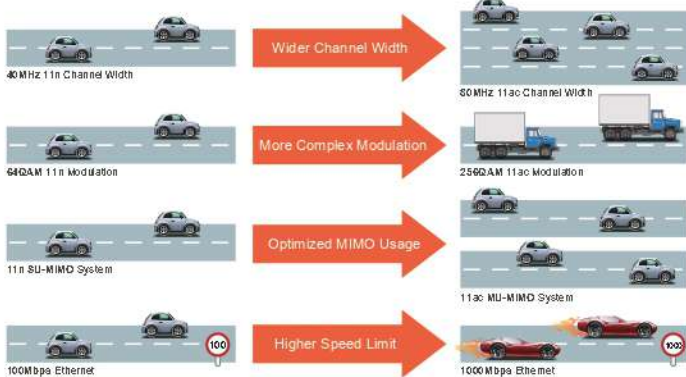
### Hardware

- 5 10/100/1000BASE-T RJ45 ports (VR-300W5)
- 5 10/100/1000BASE-T RJ45 ports with 4-port **IEEE 802.3at PoE+** injector function (VR-300PW5)
- 1 undefined Ethernet port (LAN/WAN) for Dual-WAN function
- 1 USB 3.0 port for system configuration backup and restore
- Reset button
- Desktop installation or rack mounting

### Power over Ethernet (VR-300PW5)

- Complies with IEEE 802.3at Power over Ethernet Plus, end-span PSE
- Backward compatible with IEEE 802.3af Power over Ethernet
- Up to 4 ports of IEEE 802.3af / 802.3at devices powered
- Supports PoE power up to 36 watts for each PoE port
- Auto detects powered device (PD)
- Circuit protection prevents power interference between ports
- PoE management
  - Total PoE power budget control
  - Per port PoE function enable/disable
  - PoE port power feeding priority
  - Per PoE port power limitation
  - PD classification detection
  - PD alive check

receiving rates go up to 867Mbps in 5GHz less interference frequency band. In addition, the VR-300W5 and VR-300PW5 are equipped with Gigabit LAN port to eliminate the restriction of 100Mbps Fast Ethernet wired connection to let users fully enjoy the high speed provided by wireless. The IEEE 802.11ac also optimizes MU-MIMO (Multi-User MIMO) mechanism to serve multiple devices simultaneously.



### Go faster in wired & wireless

Take Advantage of 11ac to Optimize Data Link Speed

#### Built-in Unique PoE Functions for Powered Devices Management

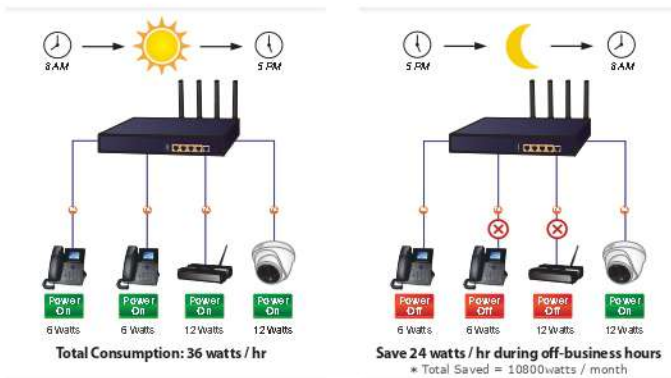
The VR-300PW5 is capable of having a maximum of up to 120 watts of power output and can deliver up to 36W for each port. It also features the following special PoE management functions:

#### PoE Usage Monitoring

With PoE usage monitoring, it can show the PoE loading of each port, total PoE power usage and system status, such as overload, low voltage, over voltage and high temperature. User can obtain detailed information about the real-time PoE working condition of the VR-300PW5 directly.

#### PoE Schedule

Under the trend of energy saving worldwide and contributing to environmental protection, the VR-300PW5 can effectively control the power supply besides its capability of giving high watts power. The “PoE schedule” function helps you to enable or disable PoE power feeding for each PoE port during specified time intervals and it is a powerful function to help SMBs or enterprises save power and budget. It also increases security by powering off PDs that should not be in use during non-business hours.



#### RF Interface Characteristics

- Features 2.4GHz (802.11b/g/n) and 5GHz (802.11a/n/ac) concurrent dual band for more efficiency of carrying high load traffic
- 2T2R MIMO technology for enhanced throughput and coverage
- Provides multiple adjustable transmit power control
- High speed up to 1.2Gbps (300Mbps for 2.4GHz + 867Mbps for 5GHz) wireless data rate

#### IP Routing Feature

- Static Route
- Dynamic Route
- OSPF

#### Firewall Security

- Cybersecurity
- Stateful Packet Inspection (SPI) firewall
- Blocks DoS/DDoS attack
- Content Filtering
- MAC Filtering and IP Filtering
- NAT ALGs (Application Layer Gateway)
- Blocks SYN/ICMP Flooding

#### VPN Features

- IPSec/Remote Server (Net-to-Net, Host-to-Net), GRE, PPTP Server, L2TP Server, SSL Server/Client (Open VPN)
- Max. Connection Tunnel Entries: 60 VPN tunnels,
- Encryption methods: DES, 3DES, AES, AES-128/192/256
- Authentication methods: MD5, SHA-1, SHA-256, SHA-384, SHA-512

#### Networking

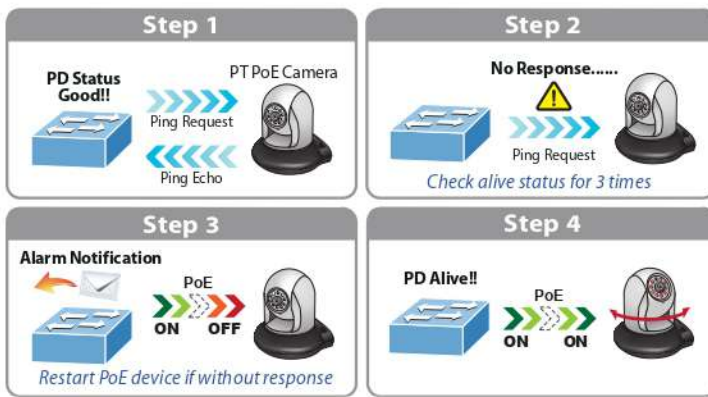
- Outbound load balancing
- Failover for dual-WAN
- High Availability
- Captive Portal
- RADIUS Server/Client
- Static IP/PPPoE/DHCP client for WAN
- DHCP server/NTP client for LAN
- Protocols: TCP/IP, UDP, ARP, IPv4, IPv6
- Port forwarding, QoS, DMZ, IGMP, UPnP, SNMPv1, v2c, v3

**Scheduled Power Recycling**

The VR-300PW5 allows each of the connected PoE IP cameras or PoE wireless access points to reboot at a specific time each week. Therefore, it will reduce the chance of IP camera or AP crash resulting from buffer overflow.

**PD Alive Check**

The VR-300PW5 can be configured to monitor connected PD status in real time via ping action. Once the PD stops working and responding, the VR-300P will resume the PoE port power and bring the PD back to work. It will greatly enhance the network reliability through the PoE port resetting the PD's power source and reducing administrator management burden.



- MAC address clone
- DDNS: PLANET DDNS, Easy DDNS, DynDNS and No-IP

**Others**

- Setup wizard
- Dashboard for real-time system overview
- Supported access by HTTP or HTTPS
- Auto reboot
- PLANET NMS System and Smart Discovery Utility for deployment management
- Planet CloudViewer App for real-time monitoring

**Wi-Fi Deployments and Authentication with Simplified Management**

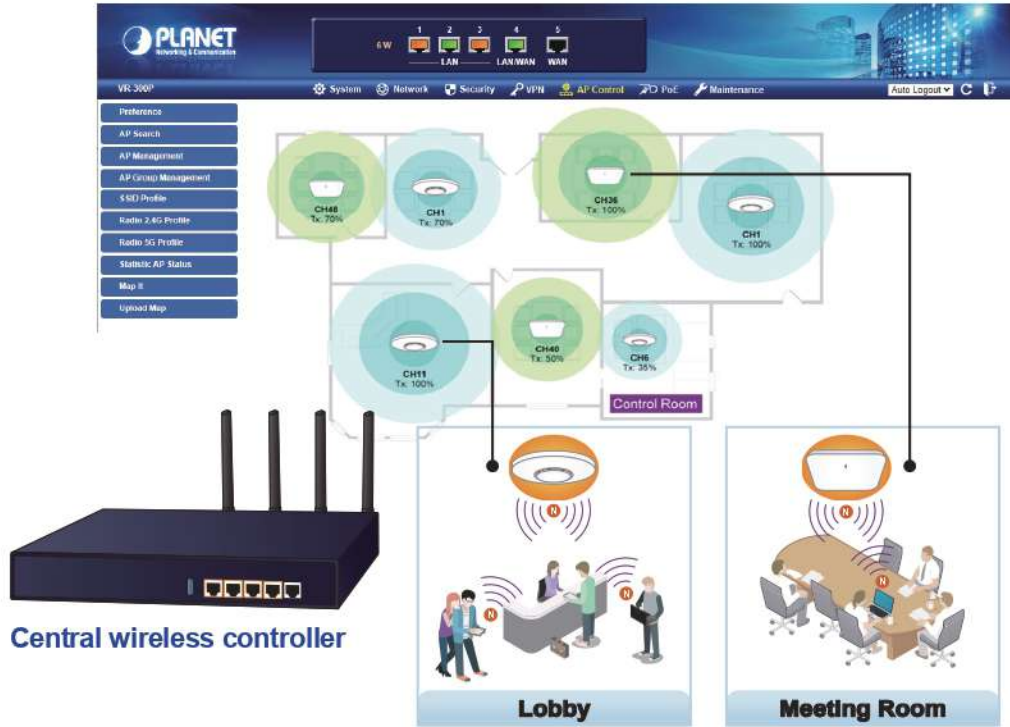
The VR-300W5 and VR-300PW5 also provides a built-in AP Controller, Captive Portal, RADIUS and a DHCP server to facilitate small and medium businesses to deploy secure employee and guest access services without any additional server. The VR-300W5 and VR-300PW5 can offer a secure Wi-Fi network with easy installation for your business.

# Captive Portal



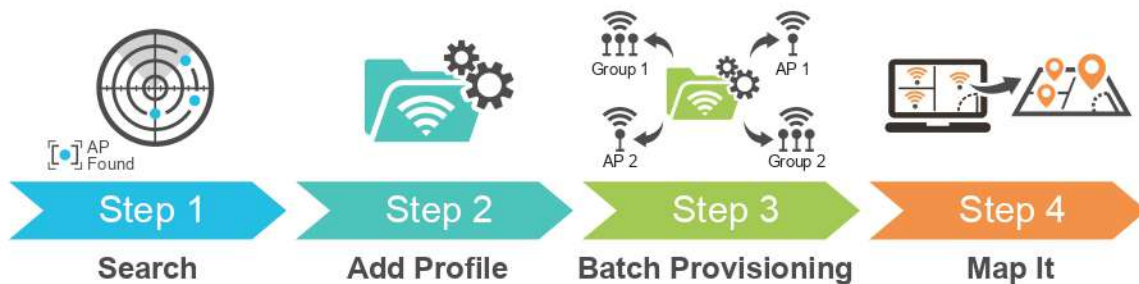
**Centralized Remote Control of Managed APs\***

The VR-300W5 and VR-300PW5 provide centralized management of PLANET Smart AP series via a user-friendly Web GUI. It's easy to configure AP for the wireless SSID, radio band and security settings. With a four-step configuration process, different purposes of wireless profiles can be simultaneously delivered to multiple APs or AP groups to minimize deployment time, effort and cost.



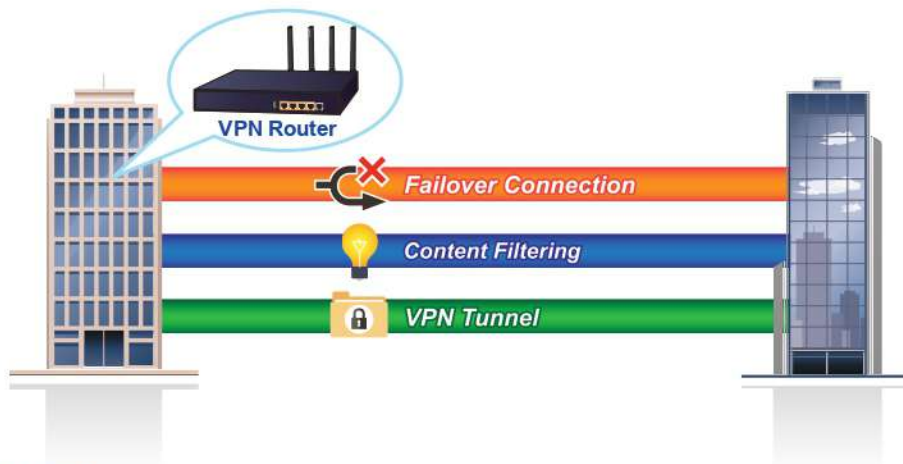
For example, to configure multiple Smart APs of the same model, the VR-300W5 and VR-300PW5 allow clustering them to a managed group for unified management. According to requirements, wireless APs can be flexibly expanded or removed from a wireless AP group at any time. The AP cluster benefits bulk provision and bulk firmware upgrade through single entry point instead of having to configure settings in each of them separately.

**Simplified Cluster Management with 4 Steps**



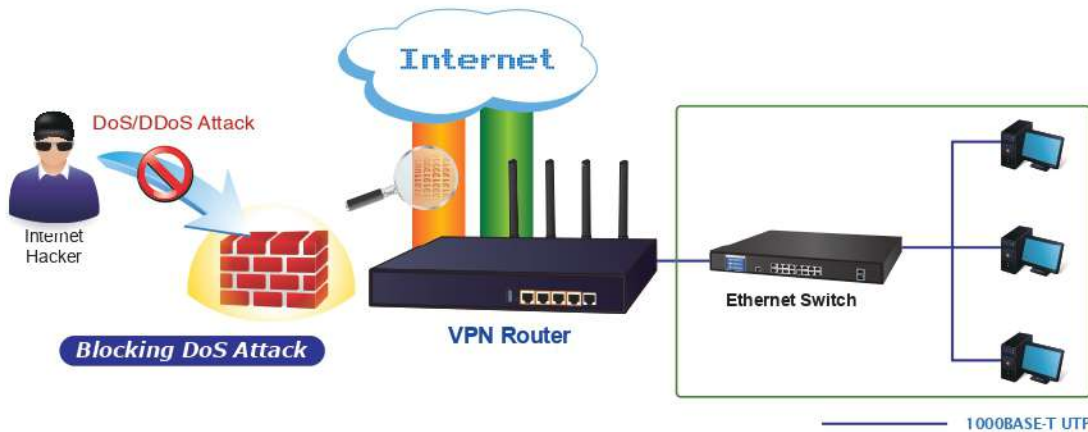
**Ideal High-Availability VPN Security Router Solution for SMBs**

The VR-300W5 and VR-300PW5 provide complete data security and privacy for accessing and exchanging most sensitive data, built-in IPSec VPN function with DES/3DES/AES encryption and MD5/SHA-1/SHA-256/SHA-384/SHA-512 authentication, and GRE, SSL, PPTP and L2TP server mechanism. The full VPN capability in the VR-300PW5 makes the connection secure, more flexible, and more capable.



**Excellent Ability in Threat Defense**

The VR-300W5 and VR-300PW5 are built-in SPI (stateful packet inspection) firewall and DoS/DDoS attack mitigation functions provide high efficiency and extensive protection for your network. Thus, virtual server and DMZ functions can let you set up servers in the Intranet and still provide services to the Internet users.



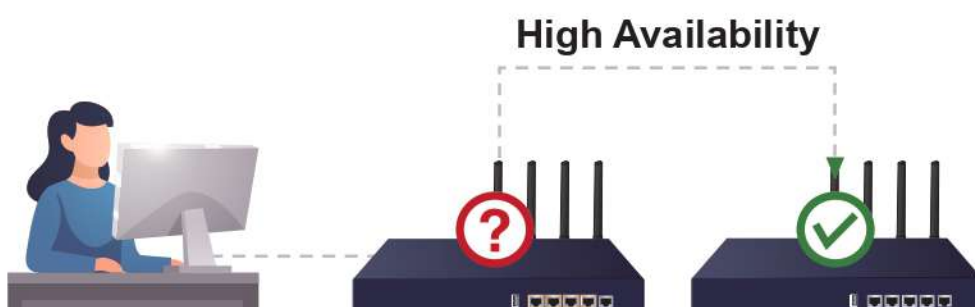
**Cybersecurity Network Solution to Minimize Security Risks**

The cybersecurity feature included to protect the switch management in a mission-critical network virtually needs no effort and cost to install. For efficient management, the VR-300W5 and VR-300PW5 are equipped with HTTPS web and SNMP management interfaces. With the built-in web-based management interface, the VR-300W5 and VR-300PW5 offer an easy-to-use, platform independent management and configuration facility. The VR-300W5 and VR-300PW5 support SNMP and it can be managed via any management software based on the standard SNMP protocol.

**Applications**

**Improving Network Efficiency**

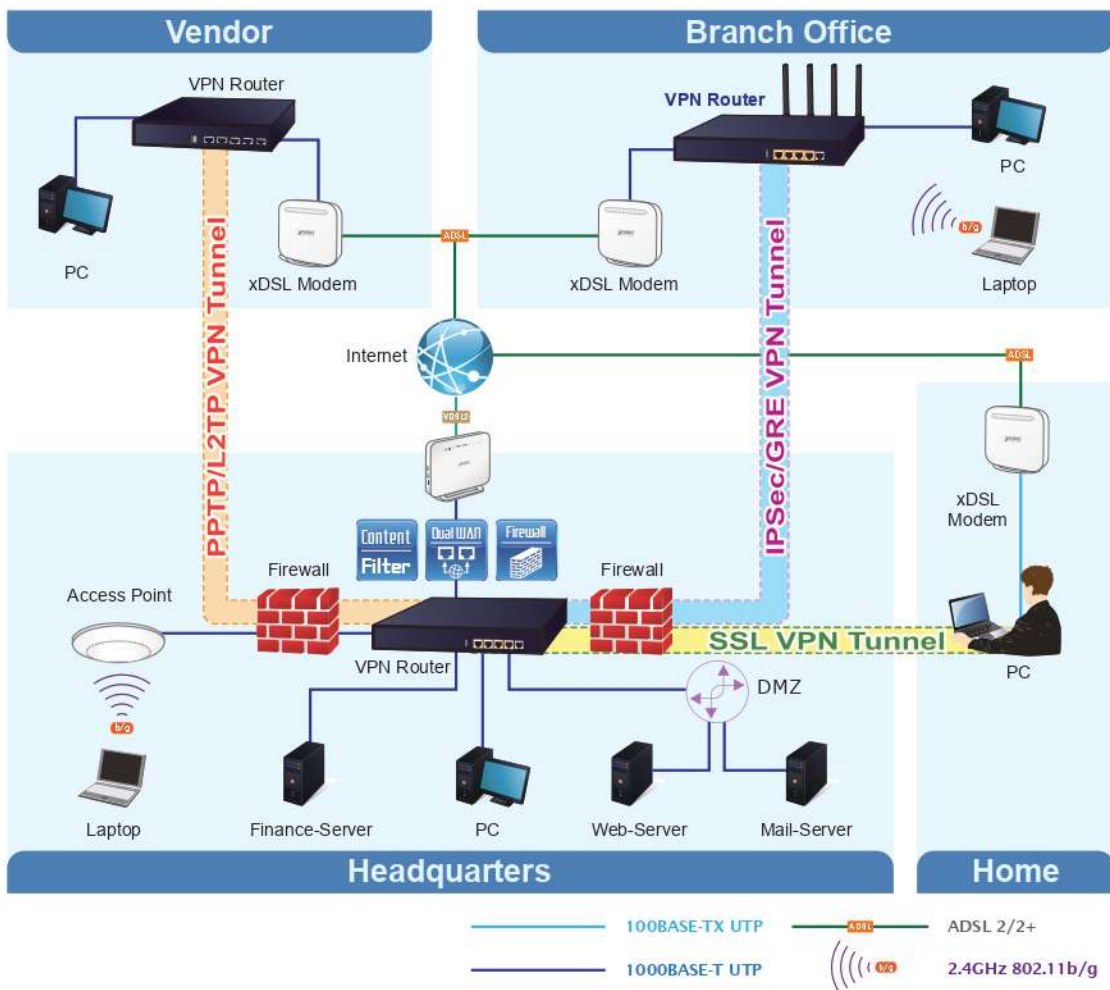
It is applicable to the small-scale sector (from 60 to 100 people), using a 13-inch desktop design, with five Gigabit ports (WAN/LAN). It provides higher performance with all Gigabit Ethernet interfaces which offer faster speeds for your network applications. The Gigabit user-defined interfaces flexibly fulfill the network requirement nowadays, and the High-Availability and Dual-WAN interfaces enable the VR-300W5 and VR-300PW5 to support outbound load balancing and WAN fail-over features.



Furthermore, the VR-300W5 and VR-300PW5 can connect dual IPv4/v6 WANs with up to two different ISPs and supports many popular security features including Content Filtering to block specific URL feature that can automatically resolve the IP address corresponding to all. Users' network can be easily managed by just typing the URL of the websites like Facebook, YouTube and Yahoo.

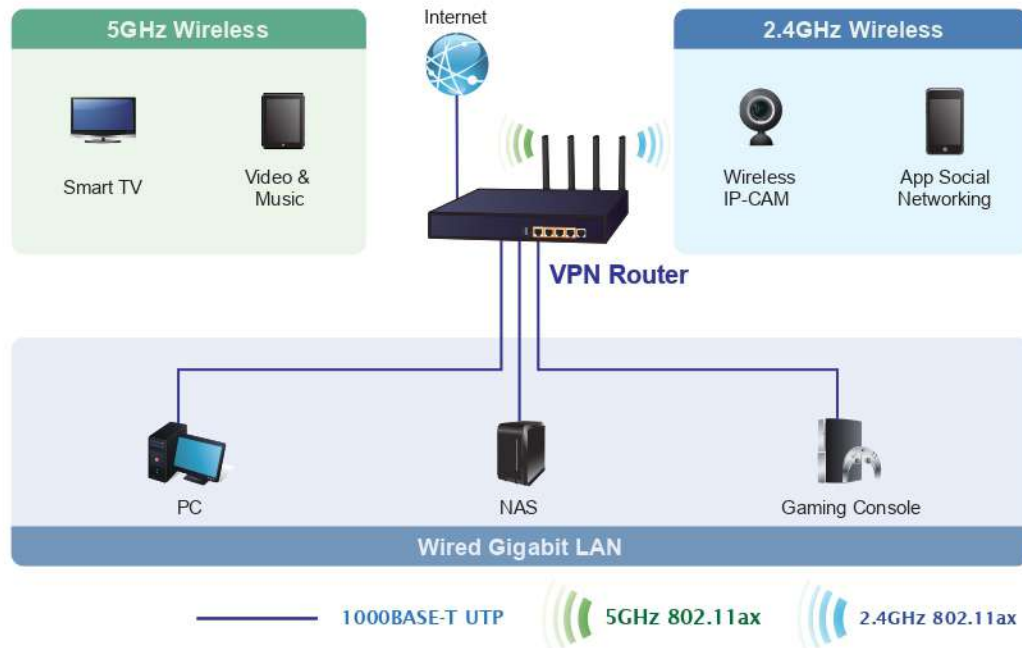


The VR-300W5 and VR-300PW5 both have link redundancy, MAC/IP filtering, outbound load balancing, QoS and many more functions to make the entire network system better. It creates a stable and qualified VPN security connection for many important applications such as VoIP, video conferencing and data transmission. The VR-300W5's and VR-300PW5's economical price with complete network security management features make it an inevitable choice for the next-generation office network load balancer.



**Extremely High-speed and Dual-band Capabilities Make Wi-Fi Transmission More Powerful**

The VR-300W5 and VR-300PW5 deliver the Dual Band technology to avoid signal interference and ensure the best Wi-Fi performance. It allows you to check e-mail and surf the Internet via the 2.4GHz band and simultaneously watch High-Definition (HD) video or any other multimedia application via 5GHz band. Moreover, the Gigabit Ethernet ports of the VR-300W5 and VR-300PW5 offer ultra-fast wired connections that utilize the maximum wireless bandwidth; therefore, users will have real wireless speed over 100Mbps. With outstanding stability of high-speed wireless transmission, the VR-300W5 and VR-300PW5 can provide users with excellent experience in multimedia streaming with your mobile devices anywhere, anytime.



**Specifications**

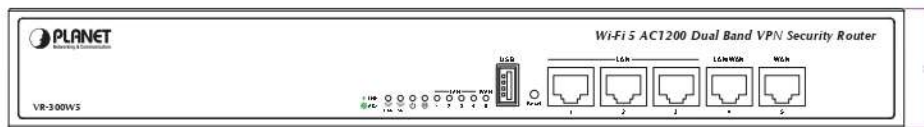
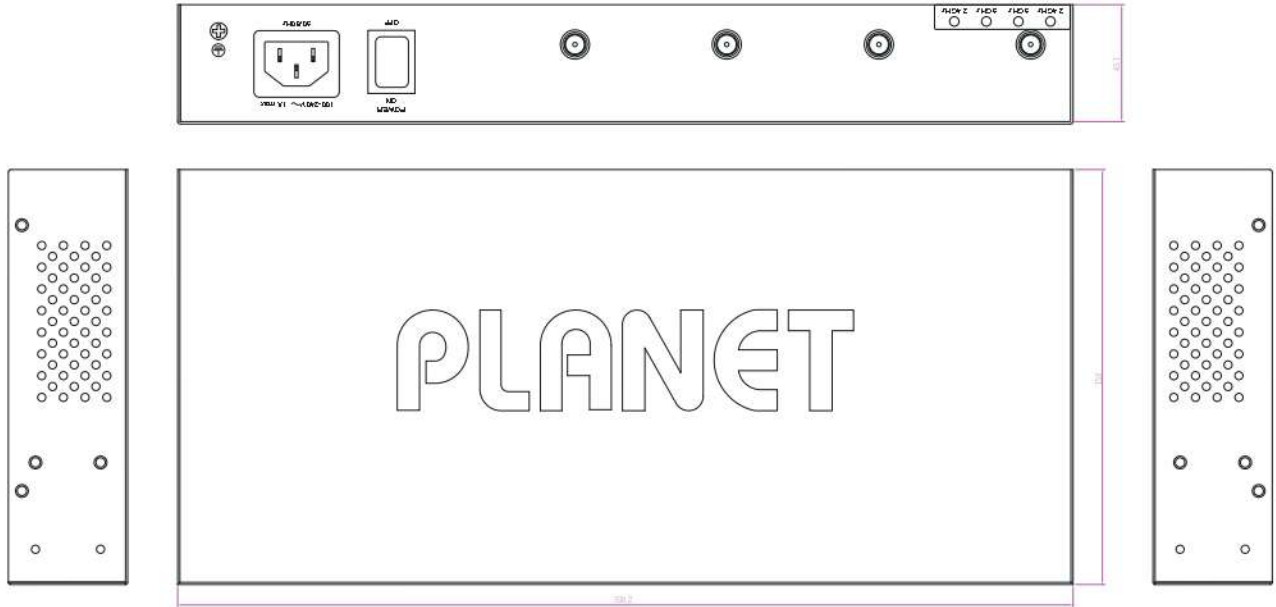
Product	VR-300W5 & VR-300PW5
<b>Hardware Specifications</b>	
Copper Ports	4 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports
Ethernet	5 10/100/1000BASE-T RJ45 Ethernet ports including 3 LAN ports (Ports 1 to 3) 1 LAN/WAN port (Port 4) 1 WAN port (Port 5)
USB Port	1 USB 3.0 port for system configuration backup and restore
Reset Button	Reset to factory default
Thermal Fan	VR-300W5: fanless VR-300PW5: 1
LED Indicators	PWR (Green) Internet (Green) LAN/WAN (Green) 2.4G (Green) 5G (Green) PoE-in-Use LED (Amber)
Installation	Desktop installation or rack mounting
Power Requirements	100~240V AC, 50/60Hz, auto-sensing
Power Consumption / Dissipation	VR-300W5: Max. 24W/81.91BTU VR-300PW5: Max. 140W/477.7BTU
Weight	VR-300W5: 1.6 kg VR-300PW5: 1.7 kg
Dimensions (W x D x H)	330 x 155 x 43.5 mm, 1U height
Enclosure	Metal
<b>Power over Ethernet</b>	
PoE Standard	IEEE 802.3af / 802.3at PoE+ PSE
PoE Power Supply Type	End-span
PoE Power Output	Per port 52V DC, 36 watts (max.)
Power Pin Assignment	1/2 (+), 3/6 (-)
PoE Power Budget	120 watts (max.) @ 25 degrees C 100 watts (max.) @ 50 degrees C

Max. Number of Class 4 PDs	4
PoE Management	PD Alive Check Scheduled Power Recycling PoE Schedule PoE Usage Monitoring
<b>Wireless</b>	
Standard	IEEE 802.11 b/g/n 2.4 GHz IEEE 802.11 a/n/ac 5 GHz
Band Mode	2.4G / 5G concurrent mode
Frequency Range	<b>2.4GHz</b> America FCC: 2.412~2.462GHz Europe ETSI: 2.412~2.484GHz <b>5GHz</b> America FCC: 5.180~5.240GHz, 5.725~5.850GHz Europe ETSI: 5.180~5.240GHz
Operating Channels	<b>2.4GHz</b> America FCC: 1~11 Europe ETSI: 1~13 <b>5GHz</b> America FCC: Non-DFS: 36, 40, 44, 48, 149,153,157,161,165 DFS: 52, 56, 60, 64, 100, 104, 108, 112, 116, 132, 136, 140 <b>Europe ETSI:</b> Non-DFS: 36, 40, 44, 48 DFS: 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140 5GHz channel list will vary in different countries according to their regulations.
Channel Width	802.11ac: 20/40/80MHz 802.11n: 20/40MHz
Data Transmission Rates	Transmit: 300 Mbps* for 2.4 GHz and 867 Mbps* for 5 GHz Receive: 300 Mbps* for 2.4 GHz and 867 Mbps* for 5 GHz <b>*The estimated transmission distance is based on the theory. The actual distance will vary in different environments.</b>
Transmission Power	<=20dBm (2.4G frequency band: 2.400 – 2.4835 GHz) <=23dBm (5G frequency band: 5.150 – 5.350 GHz)
Encryption Security	WEP (64/128-bit) encryption security WPA / WPA2 (TKIP/AES) WPA-PSK / WPA2-PSK (TKIP/AES) 802.1x Authenticator
Wireless Advanced	Wi-Fi Multimedia (WMM) Auto channel selection Wireless output power management MAC address filtering
<b>Security Service</b>	
Firewall Security	Cybersecurity Stateful Packet Inspection (SPI) Blocks DoS/DDoS attack
ALG (Application Layer Gateway)	SIP, RTSP, FTP, H.323, TFTP
NAT	Port forwarding DMZ Host UPnP
Content Filtering	MAC filtering IP filtering Web filtering
Bandwidth Management	Outbound load balancing Failover for dual-WAN QoS (Quality of Service)
<b>Networking</b>	
Operation Mode	Routing mode
Routing Protocol	Static Route, Dynamic Route (RIP), OSPF
VLAN	802.1q Tag-based, Port-based, Multi-VLAN
Multicast	IGMP Proxy
NAT Throughput	Max. 900Mbps
Outbound Load Balancing	Supported algorithms: Weight

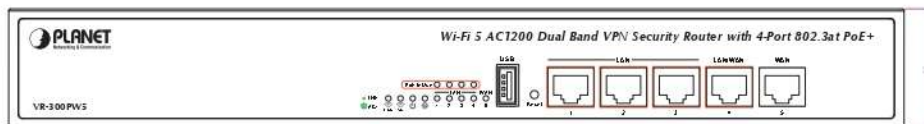
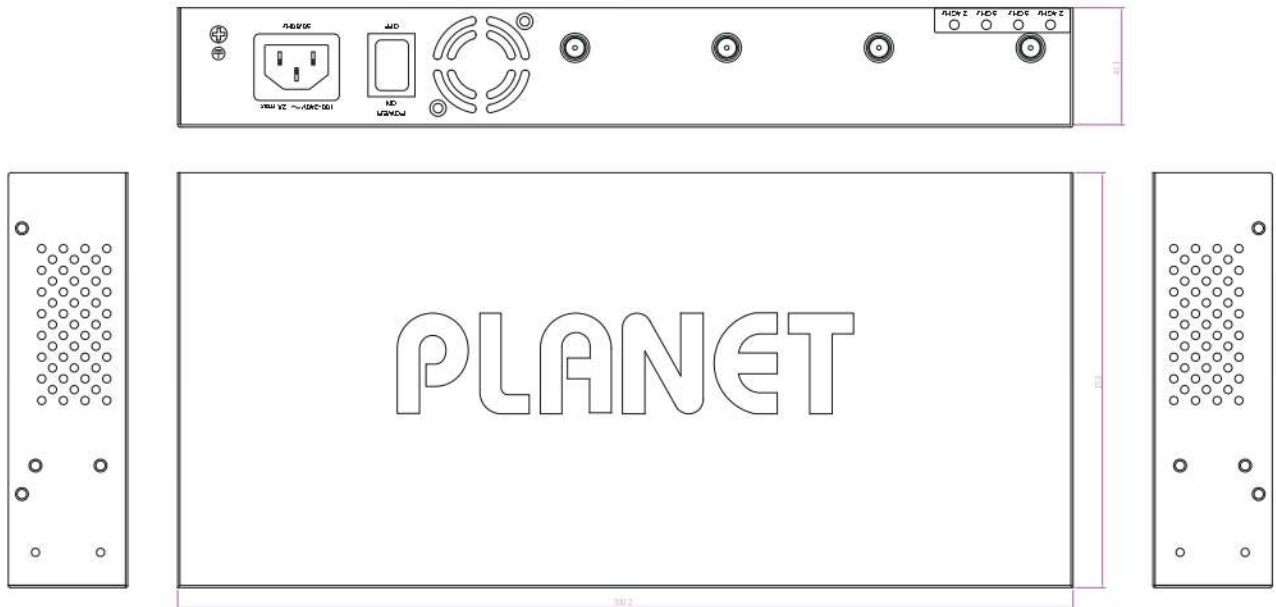


Protocol	IPv4, IPv6, TCP/IP, UDP, ARP, HTTP, HTTPS, NTP, DNS, PLANET DDNS, PLANET Easy DDNS, DHCP, PPPoE, SNMPv1/v2c/v3,
Key Features	HA (High Availability) Captive Portal RADIUS Server/Client AP Control
<b>VPN</b>	
VPN Function	IPSec/Remote Server (Net-to-Net, Host-to-Net) GRE PPTP Server L2TP Server SSL Server/Client (Open VPN)
VPN Tunnels	Max. 60
VPN Throughput	Max. 60Mbps
Encryption Methods	DES, 3DES, AES or AES-128/192/256 encrypting
Authentication Methods	MD5/SHA-1/SHA-256/SHA-384/SHA-512 authentication algorithm
<b>Management</b>	
Basic Management Interfaces	Web browser SNMP v1, v2c PLANET Smart Discovery utility/UNI-NMS supported
Secure Management Interfaces	SSHv2, TLSv1.2, SNMP v3
System Log	System Event Log
Others	Setup wizard Dashboard System status/service Statistics Connection status Auto reboot Diagnostics
<b>Standards Conformance</b>	
Regulatory Compliance	CE, FCC
<b>Environment</b>	
Operating	Temperature: 0 ~ 50 degrees C Relative Humidity: 5 ~ 95% (non-condensing)
Storage	Temperature: -10 ~ 60 degrees C Relative Humidity: 5 ~ 95% (non-condensing)

Dimensions



Unit: mm



Unit: mm

## Ordering Information

VR-300W5	Wi-Fi 5 AC1200 Dual Band VPN Security Router
VR-300PW5	Wi-Fi 5 AC1200 Dual Band VPN Security Router with 4-Port 802.3at PoE+

## Related Products

VR-300	Enterprise 5-Port 10/100/1000T VPN Security Router
VR-300P	Enterprise 4-Port 10/100/1000T 802.3at PoE + 1-Port 10/100/1000T VPN Security Router
VR-300W6A	Wi-Fi 6 AX2400 2.4GHz/5GHz VPN Security Router
VR-300PW6A	Wi-Fi 6 AX2400 2.4GHz/5GHz VPN Security Router with 4-Port 802.3at PoE+
VR-300W6	Wi-Fi 6 AX1800 Dual Band VPN Security Router
VR-300PW6	Wi-Fi 6 AX1800 Dual Band VPN Security Router with 4-Port 802.3at PoE+
VR-100	5-Port 10/100/1000T VPN Security Router
IVR-100	Industrial 5-Port 10/100/1000T VPN Security Gateway
ICG-2510W-LTE	Industrial 4G LTE Cellular Wireless Gateway with 5-Port 10/100/1000T
ICG-2510WG-LTE	Industrial 4G LTE Cellular Wireless Gateway with 5-Port 10/100/1000T
VCG-1500WG-LTE	Vehicle 4G LTE Cellular Wireless Gateway with 5-Port 10/100TX
WGR-500-4PV	Industrial Wall-mount Gigabit Router with 4-Port 802.3at PoE+ and LCD Touch Screen
WGR-500-4P	Industrial Wall-mount Gigabit Router with 4-Port 802.3at PoE+
WGR-500	Industrial 5-Port 10/100/1000T Wall-mount Gigabit Router