

Product Specifications

Enterprise 5-Port 10/100/1000T VPN Security Router
VR-300

Version 1.0

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Change History:

Revision	Date	Author	Change List
Version 1.0	2020/12/14	Jonas	Initial release

Author	Jonas	Editor:	Mark
Reviewed by:	Jonas	Approved by:	Kent

1. PRODUCT DESCRIPTION



Powerful 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 has become the primary concern for the enterprises. To fulfill this demand, PLANET has launched the VR-300 VPN Security Router, an all-in-one appliance that carries several main categories across your network security deployments: **Cyber Security**, SPI firewall security protection, policy auditing (Content Filtering, VPN Tunnel and MAC/IP Filtering), **AP Controller**, **Captive Portal**, **RADIUS**, **SD-WAN*** 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.



**Note: The feature will be available via firmware upgrade.*

Wi-Fi Deployments and Authentication with Simplified Management

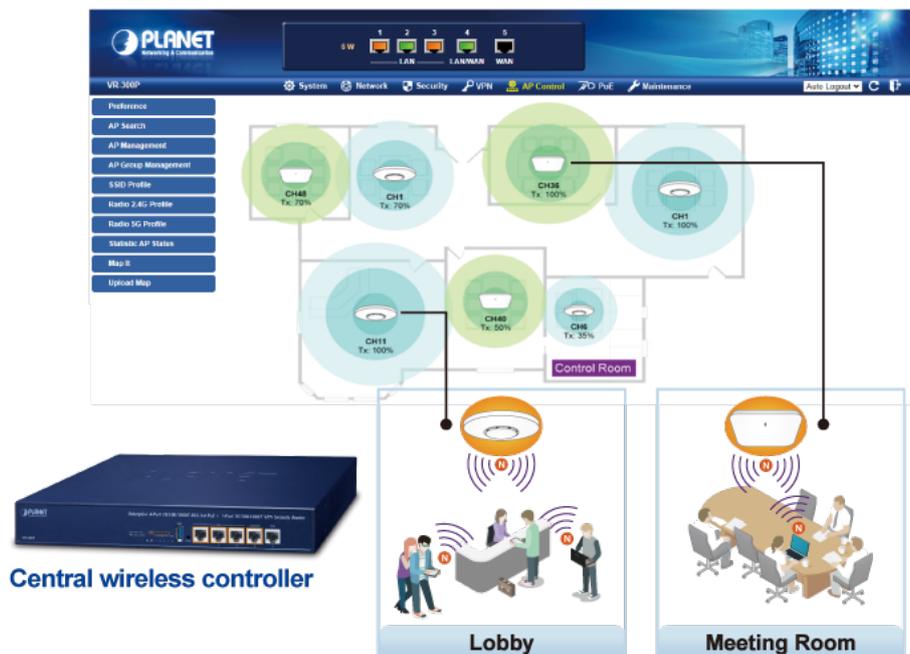
The VR-300 also provides a built-in AP Controller, Captive Portal, RADIUS and a DHCP server to facilitate small and medium businesses to deploy secure employee and guest access services without any additional server. The VR-300 can offer a secure Wi-Fi network with easy installation for your business.

Captive Portal



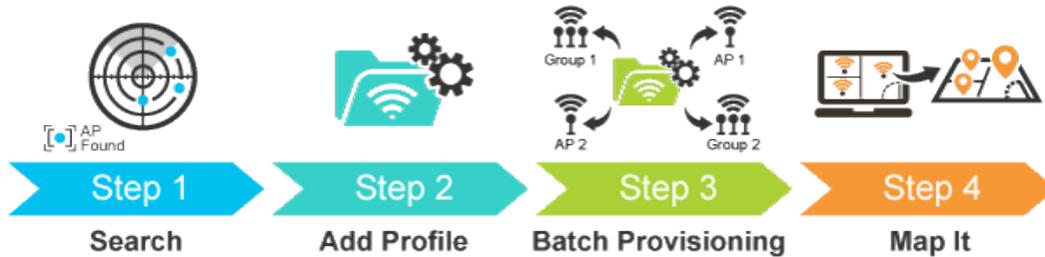
Centralized Remote Control of Managed APs*

The VR-300P provides 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.



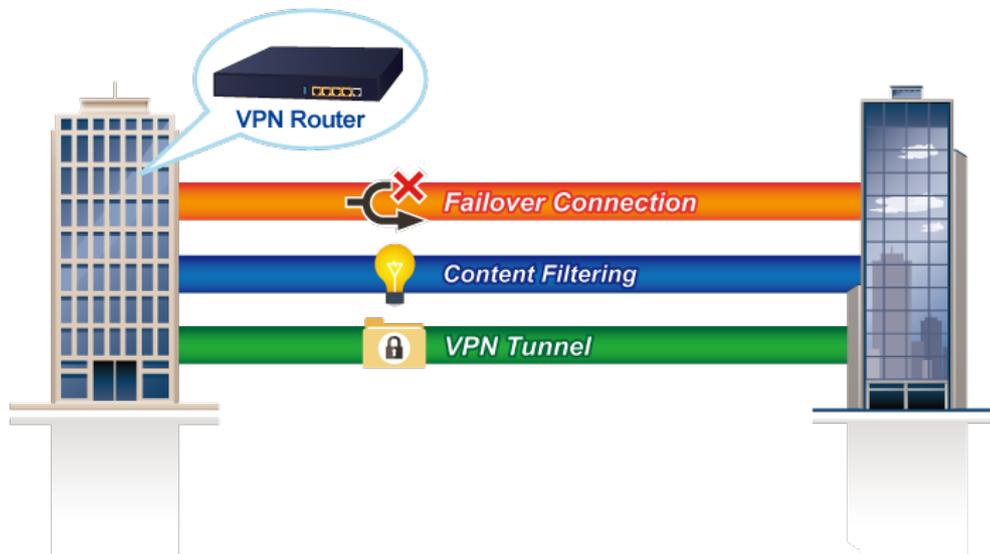
For example, to configure multiple Smart APs of the same model, the VR-300P allows clustering them to a managed group for unified management. According to requirements, wireless APs can be flexibly expanded or removed from a wireless AP group at any time. The AP cluster benefits bulk provision and bulk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

Simplified Cluster Management with 4 Steps



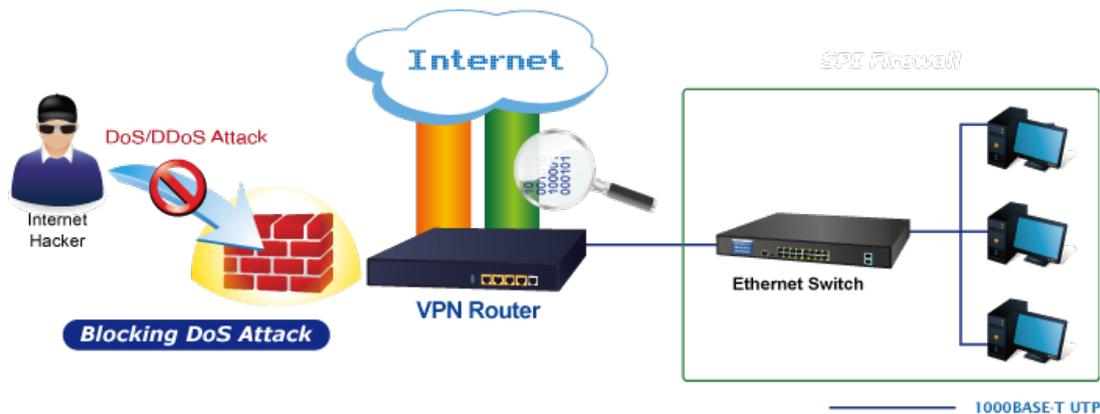
Ideal High-Availability VPN Security Router Solution for SMBs

The VR-300 provides 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-300 makes the connection secure, more flexible, and more capable.



Excellent Ability in Threat Defense

The VR-300's 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

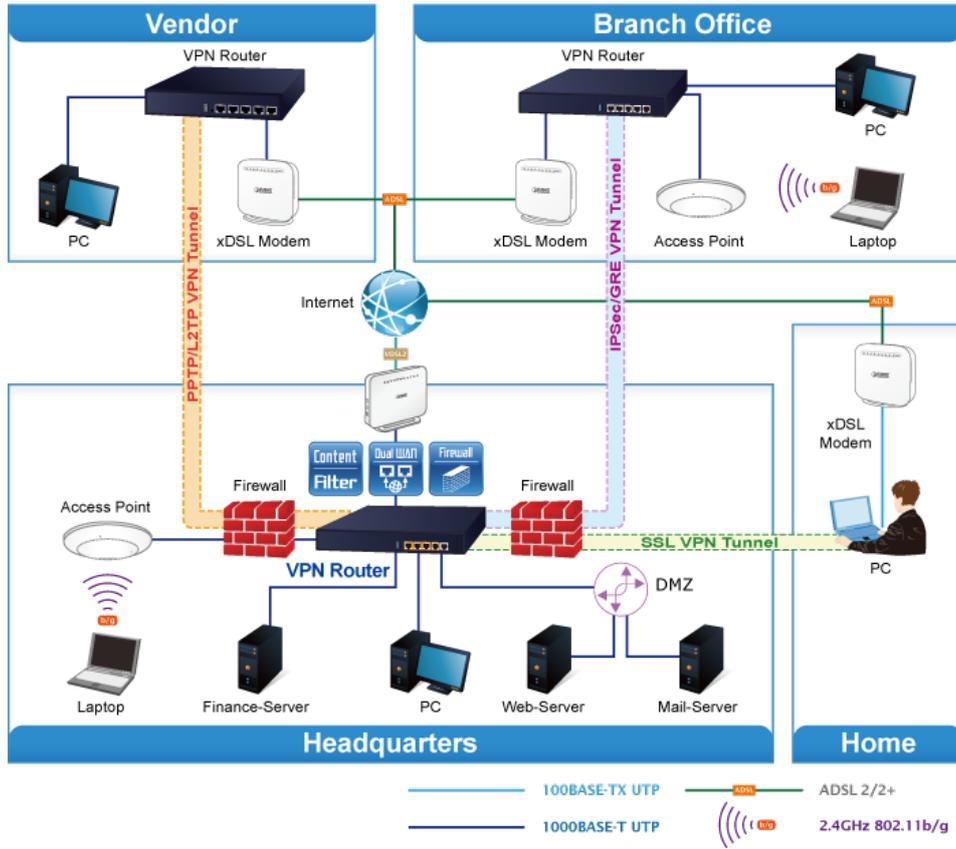
The cybersecurity feature included to protect the switch management in a mission-critical network virtually needs no effort and cost to install. For efficient management, the VR-300 is equipped with HTTPS web and SNMP management interfaces. With the built-in web-based management interface, the VR-300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

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-300 to support outbound load balancing and WAN fail-over features.

Furthermore, the VR-300 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-300 has 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-300's economical price with complete network security management features make it an inevitable choice for the next-generation office network load balancer.



2. PRODUCT FEATURES

Highlights

- Dual-WAN failover and Dual-WAN load balancing
- SSL VPN and robust hybrid VPN (IPSec/PPTP/L2TP over IPSec)
- Stateful Packet Inspection (SPI) firewall and content filtering
- Blocking DoS/DDOS attack, port range forwarding
- High-Availability, AP Controller, Captive Portal and RADIUS
- IPv6, SNMP, PLANET DDNS and Universal Network Management System
- **Note: The feature will be available via firmware upgrade.*

Hardware

- 5 10/100/1000BASE-T RJ45 ports
- 1 undefined Ethernet port (LAN/WAN) for Dual-WAN function
- 1 USB 3.0 port for system configuration backup and restore
- Reset button and Fanless design
- Desktop installation or rack mounting

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
- 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 Smart Discovery utility/UNI-NMS supported

3. PRODUCT SPECIFICATIONS

3.1 Main Components

CPU	Dual-core MIPS1004Kc (880 MHz)
RAM	512MB
Flash	16MB + 32G eMMC

3.2 Functional Specifications

Product	Enterprise 5-Port 10/100/1000T VPN Security Router
Model	VR-300
Hardware Specifications	
Ethernet	5 10/100/1000BASE-T RJ45 Ethernet ports including 3 LAN ports (Port-1 to Port-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	Fanless
LED Indicators	PWR (Green) Internet (Green) LAN/WAN (Green)
Installation	Desktop installation or rack mounting
Power Requirements	100-240V AC, 1A max.
Power Consumption	13W max.
Weight	1.4kg
Dimensions (W x D x H)	330 x 155 x 43.5 mm
Enclosure	Metal
Security Service	
Firewall Security	Cybersecurity Stateful Packet Inspection (SPI) DoS/DDoS Attack Defense
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)
Networking	
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 SD-WAN* <i>*Note: The feature will be available via firmware upgrade.</i>
VPN	
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
Management	
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 Connections Status Auto reboot Diagnostics
Standards Conformance	
Regulatory Compliance	CE, FCC
Environment Specifications	
Operating	Temperature: 0 ~ 50 degrees C Relative Humidity: 5 ~ 95% (non-condensing)
Storage	Temperature: -10 ~ 60 degrees C Relative Humidity: 5 ~ 95% (non-condensing)

3.3 Physical Specifications

Dimensions (W x D x H)	330 x 155 x 43.5 mm
Net Weight	1.4 kg

Front View



■ LAN Per 10/100/1000Mbps PoE port (Port-1 to Port-4)

LED	Color	Function	
LNK/ACT	Green	Lights.	To indicate the port is running at 1000Mbps or 100Mbps or 10Mbps and successfully established
		Blink:	To indicate that the router is actively sending or receiving data over that port.

■ WAN Per 10/100/1000Mbps RJ45 port (Port and Port-5)

LED	Color	Function	
LNK/ACT	Green	Lights.	To indicate the port is running at 1000Mbps or 100Mbps or 10Mbps and successfully established
		Blink:	To indicate that the router is actively sending or receiving data over that port.

LED		
PWR	Green	Lights up when the power is on.
Internet	Green	Lights up when the router connects to internet successfully.
Ports 1-5	Green	“Steady on” indicates the port is connected to other network device. “Blink” to indicate there is traffic on the port.
Ports		
USB Port	USB 3.0 port for system configuration backup and restoration.	
Reset Button	Power on the device and press the reset button for ten seconds to restore it to factory default settings.	
Ports 1-3	It is a LAN port for connecting to a switch.	
Port 4	Default is LAN port. It can be defined as LAN port or WAN port.	
Port 5	It is a WAN port for connecting to a perimeter router.	

Rear View



3.4 Environmental Specifications

Operating

Temperature	0 ~ 50°C
Relative Humidity	5 ~ 95% (non-condensing)

Storage

Temperature	-10 ~ 60°C
Relative Humidity	5~95% (non-condensing)

3.5 Power Specifications

Power Requirement	100-240V AC, 1A
Power Consumption	Maximum 13 watts

3.6 Regulatory Compliance

FCC, CE

3.7 Reliability

MTBF > 50000 hrs @ 40 degrees C

3.8 Basic Packaging

- VR-300 x 1
- Quick Installation Guide x 1
- Power Cord x 1
- Feet Pads x 4
- Two rack-mounting brackets with attachment screws x 1

3.9 Packaging Information

Dimensions (W x D x H)	390 x 233 x 85 mm
Weight	1.45 kg (gross weight)
Carton Dimensions (W x D x H)	545 x 430 x 275 mm
Carton Weight	8.8 kg
Carton Unit	6pcs in one carton