Product Specifications

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

Version 1.0

Change History:

Revision	Date	Author	Change List
Version 1.0	2019/08/15	Keithy	Initial release

| Author	Keithy	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-100 VPN Security Router, an all-in-one appliance that carries several main categories across your network security deployments: SPI firewall security protection, policy auditing (Content Filtering, VPN Tunnel and MAC/IP Filtering), and easy management (Setup Wizard, DHCP Server and Dashboard). Furthermore, its Dual-WAN Failover and Outbound Load Balance features can improve the network efficiency while the web-based interface provides friendly and consistent user experience.

Excellent Ability in Threat Defense

The VR-100 built-in SPI (Stateful Packet Inspection) firewall and Blocking DoS/DDoS attack functions provide high efficiency and extensive protection for your network. Virtual Server and DMZ functions can let you setup servers in the Intranet and still provide services to the Internet users.

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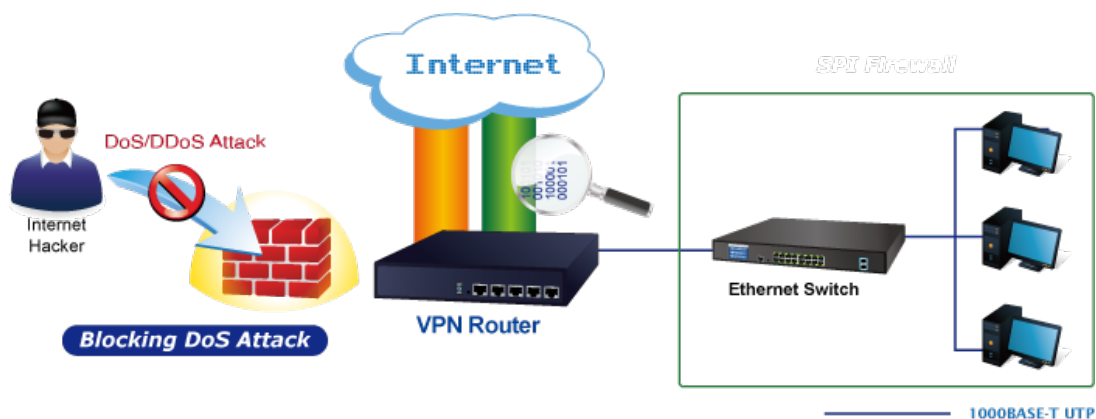
Ideal VPN Security Router Solution for SMBs

The VR-100 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-100 makes the connection solid secure, more flexible, and more capable.

The VR-100 supports many popular security features including Content Filterring to block specific URL, MAC/IP filtering, outbound load-balancing, QoS and more. Furthermore, 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 Dual-WAN interfaces enable the VR-100 to support outbound load balancing and WAN fail-over features.
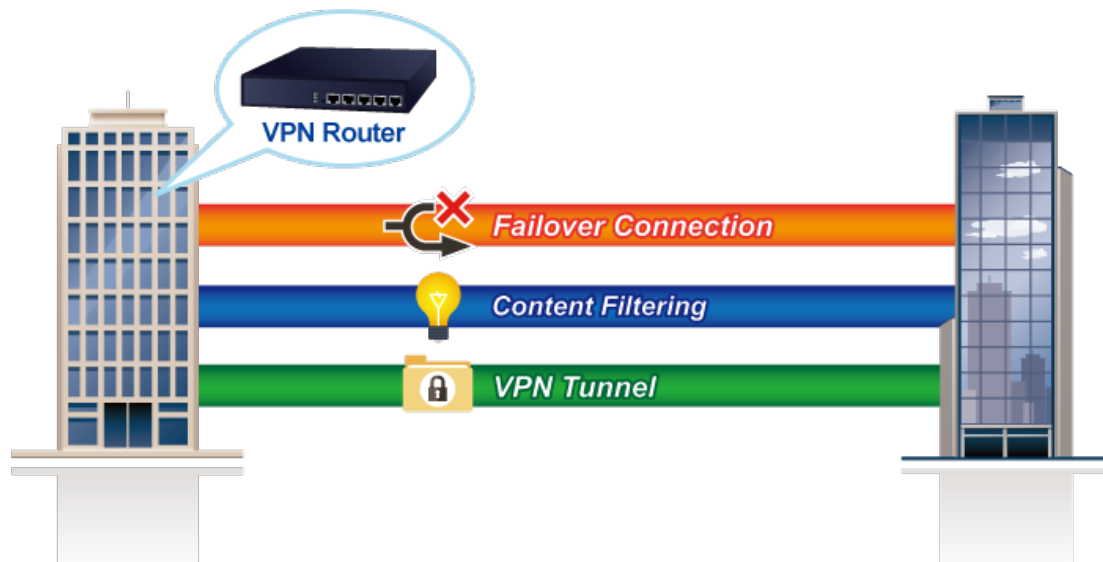
## Cybersecurity Network Solution to Minimize Security Risks

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-100 is equipped with HTTPS web and SNMP management interfaces. With the built-in web-based management interface, the VR-100 offers an easy-to-use, platform independent management and configuration facility. The VR-100 supports SNMP and it can be managed via any management software based on the standard SNMP protocol.

Improving Network Efficiency

The VR-100 has link redundancy, Content Filtering and many more functions to make the entire network system better. It is applicable to the small-scale sector (from 10 to 50 people), using a 9-inch desktop design, with five Gigabit ports (WAN/LAN). The VR-100's economical price with complete cable management features make it an inevitable choice for the next-generation office network load balancer.

The VR-100's built-in Content Filtering feature 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-100 can connect dual WANs with up to two different ISPs. It creates a stable and qualified VPN connection for many important applications such as VoIP, video conferencing and data transmission.
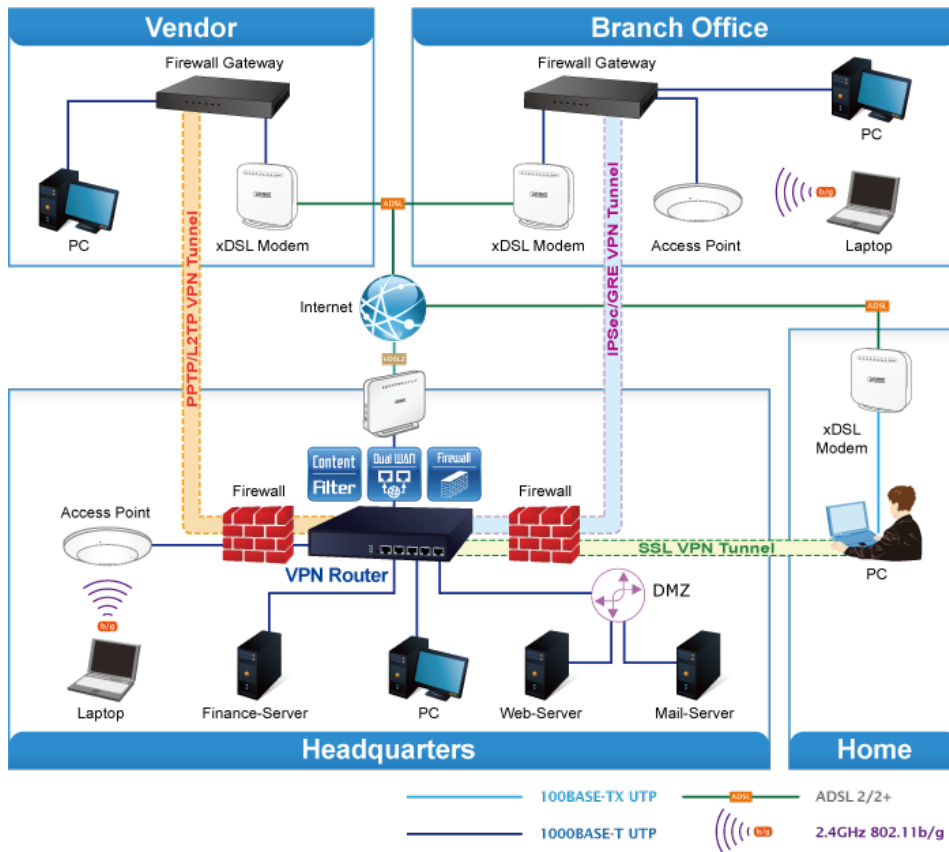
2. PRODUCT FEATURES

Hardware

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

IP Routing Feature

- Static Route
- Dynamic Route

Firewall Security

- Stateful Packet Inspection (SPI) firewall
- Blocks DoS/DDoS attack
- Content filtering
- MAC/IP filtering
- Blocks SYN/ICMP flooding

VPN Features

- IPSec (Host to Host)/GRE/PPTP server/L2TP/SSL (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
- Static IP/DHCP client for WAN
- Protocols: TCP/IP, UDP, ARP, IPv4, IPv6
- Port forwarding
- DMZ
- SNMP
- DHCP server/NTP client

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

Others

- Setup wizard
- Dashboard for real time system overview
- Supported access by HTTP or HTTPS
- Auto reboot
- PLANET Smart Discovery utility/UNI-NMS supported

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3. PRODUCT SPECIFICATIONS

3.1 Main Components

CPU	Dual-core MIPS1004Kc (880 MHz)
RAM	512MB
Flash	16MB

3.2 Functional Specifications

Product	VPN security router
Model	VR-100
Hardware	
Ethernet	5 10/100/1000BASE-T RJ45 Ethernet ports including ■ 3 LAN ports ■ 1WAN port ■ 1 LAN/WAN port
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 (optional)
Power Requirements	100-240V AC, 1A max.
Power Consumption	13W max.
Weight	0.85kg
Dimensions (W x D x H)	215.2 x 135 x 42.6 mm
Software	
Management	Web browser
Operation Mode	Routing mode
Routing Protocol	Static route: 32 Dynamic route: 4096
NAT Throughput	Max. 900Mbps
Firewall Security	Stateful packet inspection (SPI) Blocks DoS/DDoS attack
Outbound Load Balancing	Supported algorithms: Weight
Protocol	IPv4, IPv6, TCP/IP, UDP, ARP, HTTP, HTTPS, NTP, DNS, PLANET DDNS, PLANET Easy DDNS, DHCP, SNMP,
Content Filtering	MAC filtering IP filtering Web filtering
Log	System Operation Log
Others	Outbound load balancing Failover for dual-WAN Port forwarding DMZ Cybersecurity Dashboard Setup wizard

	Auto reboot PLANET Smart Discovery utility/UNI-NMS supported
VPN	
VPN Function	IPSec (Host to Host)/GRE/PPTP server/L2TP/SSL (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
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)
Standard Accessories	
Packet Contents	VR-100 x 1 Quick Installation Guide x 1 Power Cord x 1 Feet Pads x 4

3.3 Physical Specifications

Dimensions (W x D x H)	215.2 x 135 x 42.6 mm
Net weight	0.85 kg

Front View
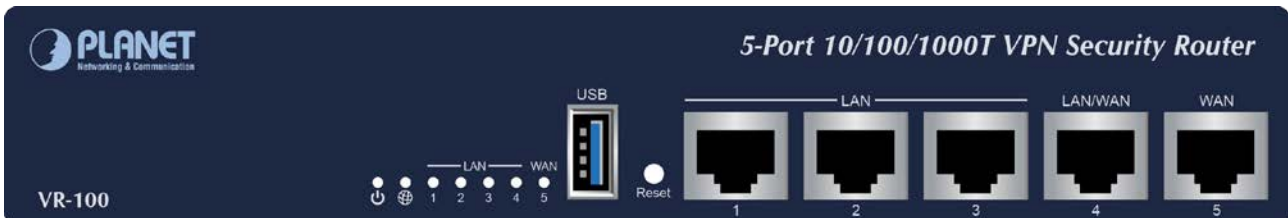
LED		
PWR	**Green**	Lights up when the power is on.
Internet	**Green**	Lights up when the router connects to internet successfully.
Port 1-5	**Green**	"Steady on" indicates the port is connected to other network device. "Blink" to indicate there is traffic on the port.
Ports		
USB Port		USB 3.0 port 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.
Port 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-100 x 1
- Quick Installation Guide x 1
- Power Cord x 1
- Feet Pads x 4

3.9 Packaging Information

Dimensions (W x D x H)	290 x 243 x 76 mm
Weight	1.3 kg (gross weight)
Carton Dimensions (W x D x H)	424 x 324 x 296 mm
Carton Weight	6.5 kg
Carton Unit	5pcs in one carton