

Enterprise Dual 10G VPN Security Router with 4-Port 10/100/1000T



Dual 10G-Capable VPN Gateway with Comprehensive Multi-VPN and Post-Quantum Security Support

This VPN Gateway is designed for high-performance enterprise connectivity, featuring flexible 10G fiber and copper WAN/LAN interfaces and 4 Gigabit LAN ports for efficient network deployment. It supports multiple VPN protocols—including IPsec, SSL (OpenVPN), WireGuard, GRE, PPTP, and L2TP—to enable secure communication across distributed networks. With built-in Hardware TRNG for secure cryptographic key generation and PQC TLS (Post-Quantum Cryptography TLS) readiness, the XVR-800 enhances long-term security against emerging quantum computing threats. The gateway also delivers dual-WAN failover, load balancing, and advanced routing in a compact industrial-grade design.

The XVR-800 serves as a central gateway connecting diverse IPv6-enabled IoT devices and network environments, as illustrated below.



Automatic Failover between Dual WAN

With its fiber and copper dual WAN interfaces—10GBASE-X SFP+ and 10GBASE-T—the XVR-800 ensures continuous Internet connectivity through automatic failover. Administrators can freely set the WAN priority, and when the primary link becomes unavailable, the secondary WAN interface takes over instantly. This design guarantees reliable, always-on network uptime for mission-critical applications.

Highlights

- One 1G/2.5G/5G/10GBASE-T RJ45 Port for WAN/LAN interface
- One 1G/2.5G/10GBASE-X SFP+ slot for WAN/LAN interface
- Dual-WAN failover and dual-WAN load balancing
- SSL VPN and robust hybrid VPN (IPsec/PPTP/L2TP over IPsec/OpenVPN/WireGuard)
- 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
- Planet NMS controller system and CloudNMS platform supported
- Supports up to 100 concurrent SSL VPN connections

Hardware

- 4 10/100/1000BASE-T RJ45 ports
- 1 1G/2.5G/5G/10GBASE-T RJ45 Port for WAN/LAN interface
- 1 1G/2.5G/10GBASE-X SFP+ slot for WAN/LAN interface
- 1 USB port for system configuration backup and restoration
- Reset button
- Desktop installation or rack mounting

IP Routing Feature

- Static Route
- Dynamic Route
- OSPF

Firewall Security

- Secure Boot to ensure trusted firmware integrity
- Hardware TRNG (True Random Number Generator) for high-entropy cryptographic key generation
- Cybersecurity
- Stateful Packet Inspection (SPI) firewall
- Blocks DoS/DDoS attack
- Content Filtering
- MAC Filtering and IP Filtering

Flexible 10Gbps WAN interface Enables Extension of Network Deployment

The XVR-800 is equipped with both copper and fiber WAN interfaces, featuring an SFP+ slot that supports a wide range of SFP+ transceivers for FTTx and long-distance extensions. Administrators can select SFP+ modules according to distance requirements:

- Multi-mode fiber: 550 m to 2 km
- Single-mode / WDM fiber: 10 km, 20 km, 30 km, 40 km, 50 km, 60 km, 70 km, up to 120 km

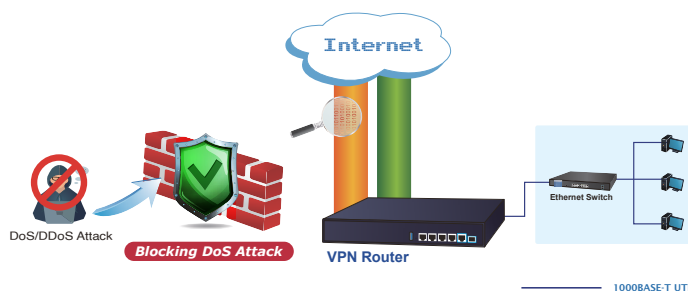
This capability allows the device to efficiently uplink to backbone switches or monitoring centers over long distances.

Secure Boot for Trusted System Integrity

The XVR-800 incorporates a Secure Boot mechanism to ensure that only authenticated and trusted firmware can be executed during system startup. This hardware-based protection prevents unauthorized or tampered firmware from being loaded, safeguarding the device against malicious attacks at the system level and ensuring a trusted foundation for network security.

Excellent Ability in Threat Defense

The XVR-800 with built-in SPI (stateful packet inspection) firewall and DoS/DDoS attack mitigation functions provides 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 XVR-800 is equipped with HTTPS web and SNMP management interfaces. With the built-in web-based management interface, the XVR-800 offers an easy-to-use, platform independent management and configuration facility. The XVR-800 supports SNMP and it can be managed via any management software based on the standard SNMP protocol.

With support for advanced security mechanisms such as Secure Boot, built-in Hardware TRNG for secure key generation, and PQC TLS readiness, the XVR-800 ensures long-term protection against evolving cyber threats, including quantum-era attacks.

- 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 (OpenVPN, compatible with VPN services such as Surfshark and NordVPN), WireGuard
- Encryption methods: DES, 3DES, AES, AES-128/192/256
- Authentication methods: MD5, SHA-1, SHA-256, SHA-384, SHA-512
- PQC TLS (Post-Quantum Cryptography TLS) readiness for future-proof encryption

Networking

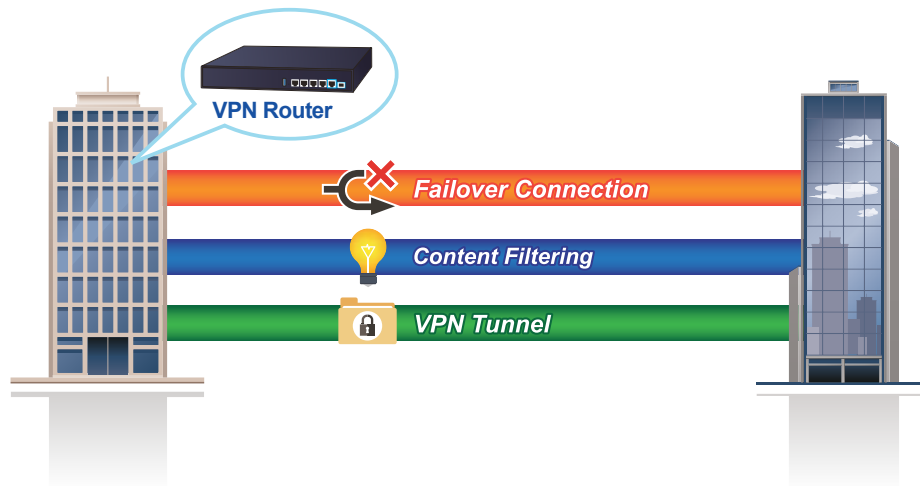
- Outbound load balancing
- Failover for dual-WAN
- High Availability
- Captive Portal
- RADIUS Server/Client
- Static IP/PPPoE/DHCP client for WAN
- DHCP server/NTP client for LAN
- Protocols: TCP/IP, UDP, ARP, IPv4, IPv6
- Port forwarding, QoS, DMZ, IGMP, UPnP, SNMPv1,v2c, v3
- MAC address clone
- DDNS: PLANET DDNS, Easy DDNS, DynDNS and No-IP
- NAT disable support for pure routing mode deployment

Others

- Setup wizard
- Dashboard for real-time system overview
- SFP-DDM (Digital Diagnostic Monitor)
- Supported access by HTTP or HTTPS
- Auto reboot
- PLANET NMS System and Smart Discovery Utility for deployment management
- PLANET CloudNMS app for real-time monitoring

High-Availability VPN Security Router Designed for SMB Applications

The XVR-800 ensures strong data privacy and secure remote access through its comprehensive VPN suite. It supports IPSec VPN with DES/3DES/AES encryption and MD5, SHA-1, SHA-256, SHA-384, and SHA-512 authentication, as well as GRE tunneling, SSL VPN, PPTP, L2TP, and WireGuard for modern, lightweight, high-speed encrypted connections. With this extensive VPN capability, the XVR-800 provides secure, flexible, and resilient connectivity for branch sites, remote workers, and sensitive business operations.



Flexible Routing with NAT Disable Capability

The XVR-800 supports NAT disable functionality, allowing it to operate in pure routing mode for advanced network deployment scenarios. This feature is particularly beneficial for environments requiring end-to-end IP transparency, such as enterprise backbone networks, data centers, or integration with upstream security systems. By disabling NAT, administrators can achieve greater control over traffic flow and routing policies.

Maximizing Work Efficiency with PLANET SD-WAN Gateway

PLANET XVR-800 incorporated in SD-WAN (software-defined wide area network) function can greatly increase WAN optimization for multiple WAN links to be managed. With SD-WAN, users can connect any application across all available network connections at every site. It improves application performance and provides a high-quality user experience for increasing business productivity and reducing IT costs.

Integrated Wi-Fi Management for Secure and Easy Deployment

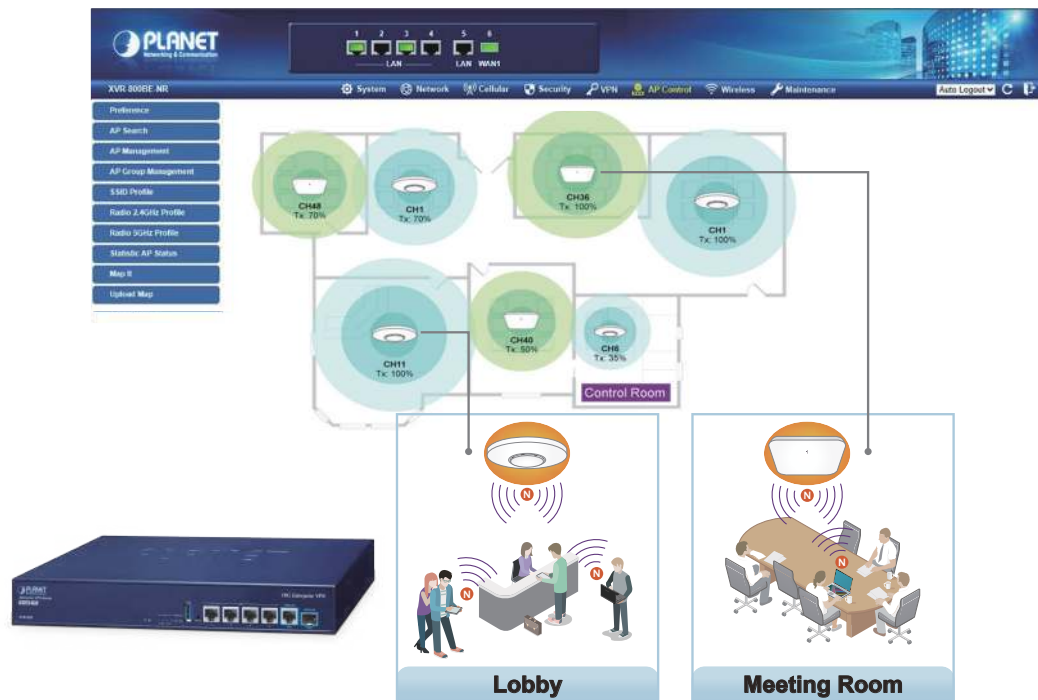
The XVR-800 integrates an **AP Controller**, **Captive Portal**, **RADIUS authentication**, and DHCP server to streamline Wi-Fi deployment for small and medium-sized businesses. These built-in services eliminate the need for external servers, enabling administrators to centrally manage APs, enforce access policies, and deliver secure employee and guest Wi-Fi networks with reduced setup complexity.

Captive Portal



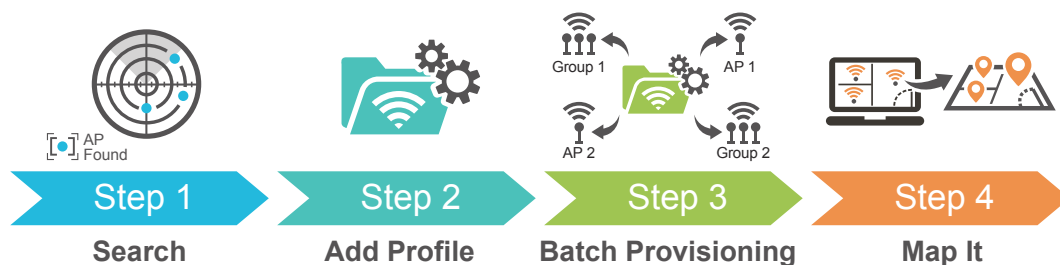
Centralized Remote Control of Managed APs

Through its intuitive web-based interface, the XVR-800 allows easy centralized control of PLANET Smart APs, with simple configuration of SSIDs, radio settings, and security policies. A quick four-step setup pushes wireless profiles to multiple APs or groups at once, enabling fast rollout and reduced deployment cost.



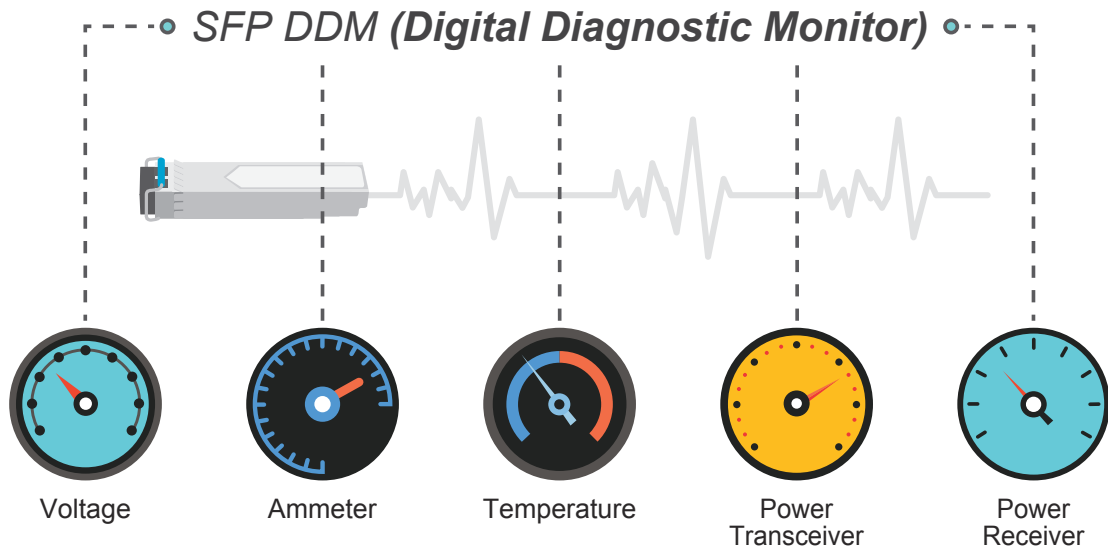
Administrators can cluster APs of the same model for unified management, flexibly expand or remove APs, and perform bulk provisioning or firmware upgrades—all from a single control point. This ensures scalable, efficient, and low-maintenance Wi-Fi management.

Simplified Cluster Management with 4 Steps



Intelligent SFP Diagnosis Mechanism

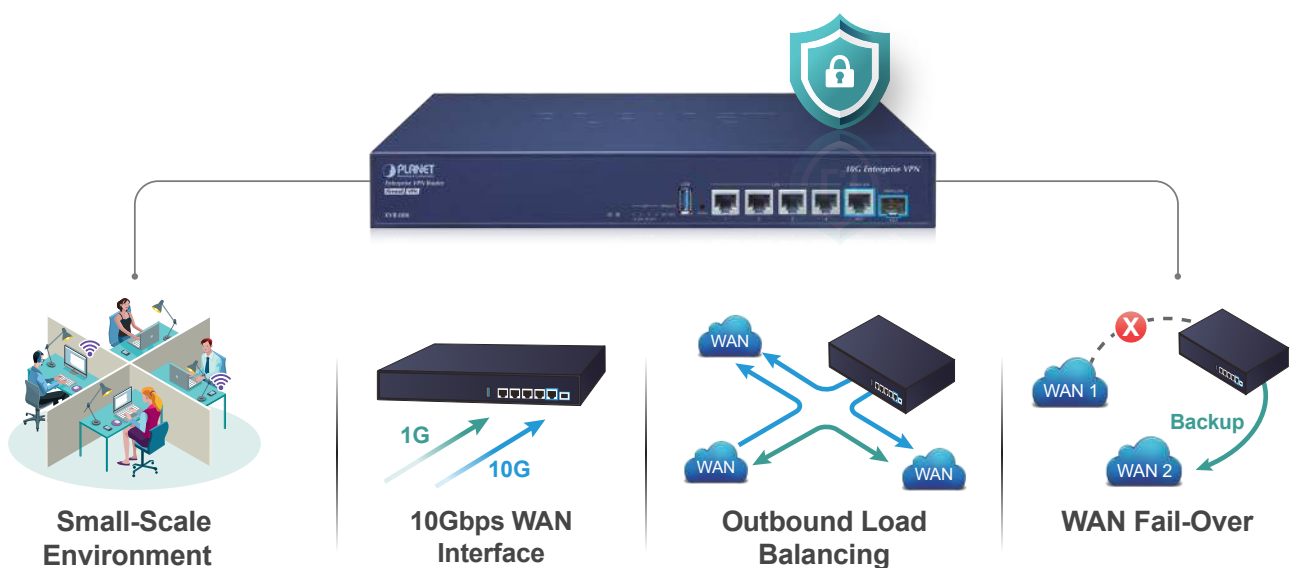
The XVR-800 supports SFP-DDM (digital diagnostic monitor) function that greatly helps network administrator to easily monitor real-time parameters of the SFP, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage.



Applications

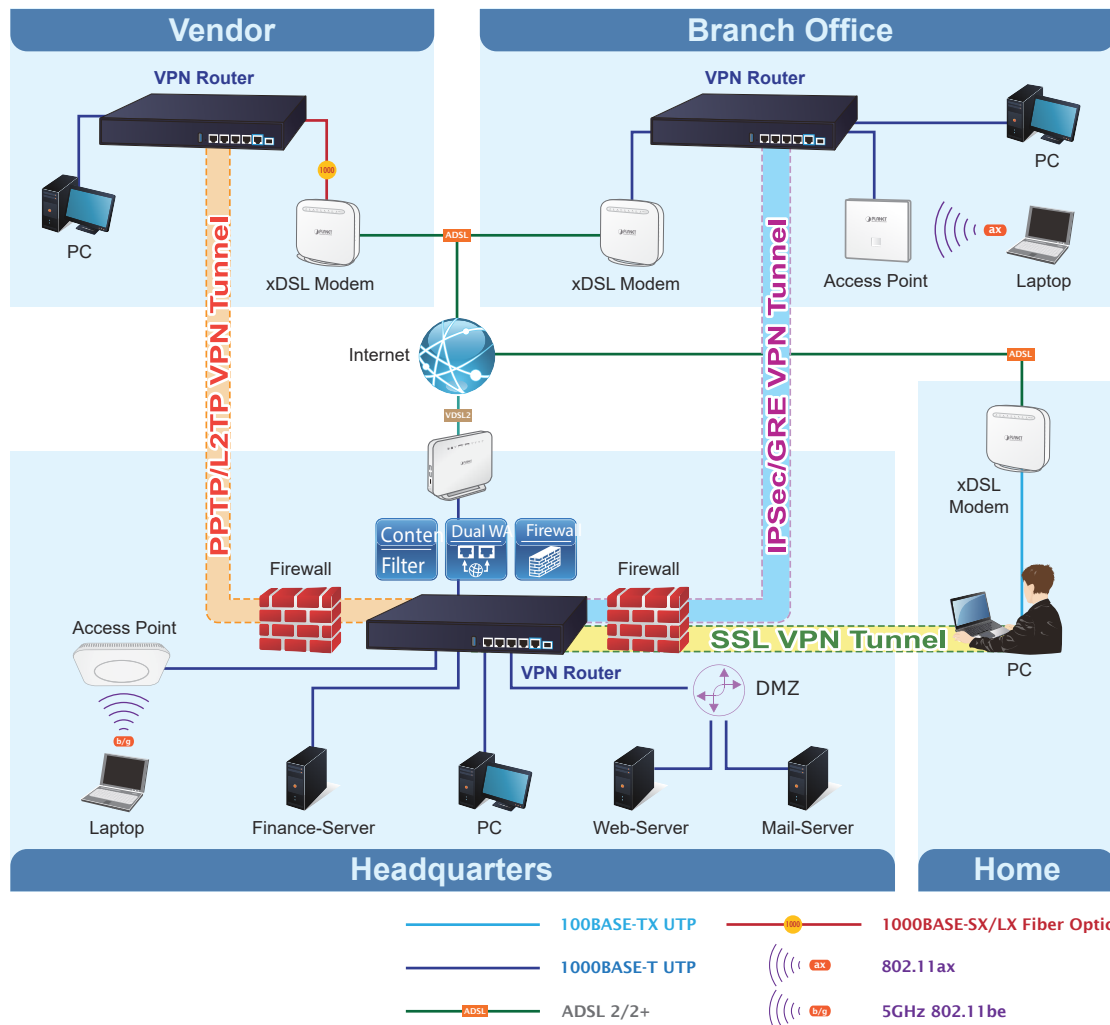
Secure Multi-Site Connectivity with High-Speed VPN Deployment

The XVR-800 is ideal for enterprises and branch offices that require secure interconnection across multiple locations. With comprehensive VPN support including IPSec, SSL (OpenVPN), and WireGuard, it enables encrypted communication between headquarters, remote offices, and mobile workers. The dual 10G WAN interfaces ensure high-bandwidth transmission for data-intensive applications, while advanced routing and load balancing optimize traffic distribution across network links for improved efficiency and reliability.



Centralized Network Management with Integrated Security Services

Designed for small to medium-sized businesses, the XVR-800 integrates essential network services such as AP Controller, Captive Portal, RADIUS authentication, and DHCP server into a single platform. This allows administrators to easily deploy and manage secure wired and wireless networks without additional servers. Combined with SPI firewall, DoS/DDoS protection, content filtering, and QoS capabilities, the XVR-800 delivers a unified solution that enhances network security, simplifies management, and ensures stable performance for daily business operations.



Specifications

Model	XVR-800
Hardware Specifications	
Ethernet	4 10/100/1000BASE-T RJ45 Ethernet ports (Port 1 to 4) 1 1G/2.5G/5G/10GBASE-T RJ45 port (Port 5) <i>Supports WAN port mode or LAN port mode over software configuration</i>
Fiber	One 1G/2.5G/10GBASE-X SFP+ port (Port 6) <i>Supports WAN port mode or LAN port mode over software configuration</i>
USB Port	1 USB 2.0 port for system configuration backup and restoration
Reset Button	Reset to factory default
Thermal Fan	1
LED Indicators	System: PWR, Internet, (Green) Ethernet Interfaces (Port 1-4): 10/100/1000 LNK/ACT (Green) Ethernet Interfaces (Port 5): 1G/2.5G/5G/10G LNK/ACT (Green) Fiber Interfaces (Port 6): 1G/2.5G/10G LNK/ACT (Green)
Installation	Desktop installation or rack mounting
Power Requirements	100~240V AC, 50/60Hz, auto-sensing
Power Consumption / Dissipation	Max. 3.3 watts/10.92BTU (Power on without any connection) Max. 11 watts/37.53BTU (Full loading)
Weight	1725g
Dimensions (WxDxH)	330.2 x 200 x 43.1mm, 1U height
Enclosure	Metal
Security Service	
Firewall Security	Cybersecurity Secure Boot Hardware TRNG for secure cryptographic key generation Stateful Packet Inspection (SPI) Blocks DoS/DDoS attack
ALG (Application Layer Gateway)	SIP, RTSP, FTP, H.323, TFTP
NAT	Port forwarding DMZ Host UPnP NAT disable (supports routing mode)
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: RIPv1/v2, OSPFv2
VLAN	802.1q Tag-based, Port-based, Multi-VLAN
Multicast	IGMP Proxy
NAT Throughput	Max. 9.4Gbps
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
VPN	
VPN Function	IPSec (Net-to-Net, Host-to-Net) IPSec Remote Server GRE PPTP Server L2TP Server SSL Server SSL Client (Open VPN, Surfshark, NordVPN, PureVPN) WireGuard VPN Server/Client

VPN Tunnel Capacity by Protocol	IPSec: 16 GRE: 5 PPTP: 100 SSL VPN: 200
VPN Throughput	L2TP (1Gbps): 145~463Mbps L2TP (10Gbps): 483~885Mbps L2TP/IPsec (1Gbps): 150~334Mbps L2TP/IPsec (10Gbps): 438~496Mbps IPsec/AES128 (1Gbps): 894~910Mbps IPsec/AES128 (10Gbps): 1,110~1,310Mbps IPsec/AES256 (1Gbps): 752~842Mbps IPsec/AES256 (10Gbps): 864~1,060Mbps WireGuard (1Gbps): 815~883Mbps WireGuard (10Gbps): 1,430~1,890Mbps
Encryption Methods	DES, 3DES, AES or AES-128/192/256 encryption PQC TLS (Post-Quantum Cryptography TLS) ready Supports Hybrid Post-Quantum TLS key exchange using ML-KEM (Kyber)
Authentication Methods	SHA-256/SHA-384/SHA-512 authentication algorithm TLS_KYBER_RSA_WITH_AES_256_GCM_SHA384
Management	
Basic Management Interfaces	Web browser SNMP v1, v2c PLANET Smart Discovery utility/UNI-NMS supported PLANET NMS System/CloudNMS
Secure Management Interfaces	SSHv2, TLSv1.3, SNMP v3
System Log	System Event Log
Others	Setup wizard Dashboard System status/service Statistics Connection 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)

Ordering Information

XVR-800	Enterprise Dual 10G VPN Security Router with 4-Port 10/100/1000T
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Related Antenna & Cable Accessories

XVR-800P	Enterprise Dual 10G VPN Security Router with 4-Port 10/100/1000T 802.3at PoE+
XVR-800BE	Enterprise Wi-Fi 7 5100BE + Dual 10G VPN Security Router with 4-Port 10/100/1000T
XVR-800BE-NR	Enterprise 5G NR Cellular + Wi-Fi 7 5100BE + Dual 10G VPN Security Router with 4-Port 10/100/1000T
ZT-800	Dual 10G Zero Trust Security Gateway with 4-Port 10/100/1000T
ZT-800BE	Dual 10G Zero Trust Security Gateway with Wi-Fi 7 5100BE

PLANET Technology Corporation

11F., No.96, Minquan Rd., Xindian Dist., New Taipei City 231,
Taiwan (R.O.C.)

Tel: 886-2-2219-9518

Email: sales@planet.com.tw

Fax: 886-2-2219-9528

www.planet.com.tw



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