

VSR-30™ VPN Router

Cost-Effective Satellite VPN Appliance

The VSR-30 is a purpose-built VPN router that is designed specifically to deliver high performance, channel efficient VPN solutions over broadband satellite and terrestrial networks. With its flexible architecture, feature-rich ELIOS operating system and the introduction of Selective Layer Encryption based VPNs, the VSR-30 works across multi-vendor satellite and terrestrial networks and solves the issues of performance degradation associated with running IPsec open standards over TCP accelerated satellite connections.

Installed like any common terrestrial based VPN router, the VSR-30 provides end-to-end VPN solutions and includes standard features such as IP routing, advanced QoS settings, a stateful packet inspection firewall, embedded address management capabilities such as NAT and PrAT, in addition to VPN flavors such as IPsec, GRE and SLE. All functionality can be managed remotely or locally via secure and intuitive terminal access.

Key Features

- ▶ Proven ELIOS operating system
- ▶ High performance VPN solutions
- ▶ Built-in stateful packet inspection firewall
- ▶ Advanced Quality of Service settings
- ▶ Support of DHCP, NAT and PrAT



Key Benefits

- ▶ Enable value-added services and applications over broadband
- ▶ Interoperability with key satellite vendors TCP spoofed (PEP) network acceleration solutions
- ▶ Cost-effective solution for protecting corporate networks and remote offices
- ▶ Meet the requirements of mission-critical applications
- ▶ Allow for easy IP address management and administration

HIGH PERFORMANCE VPN SOLUTIONS FOR SATELLITE NETWORKS

The VSR-30 with its built-in support of Selective Layer Encryption VPN capability, delivers high performance VPN services over satellite to medium and large enterprise customers by interoperating with standards and proprietary based methods of TCP acceleration used to overcome the performance issues associated with satellite connections.

COST-EFFECTIVE SOLUTION

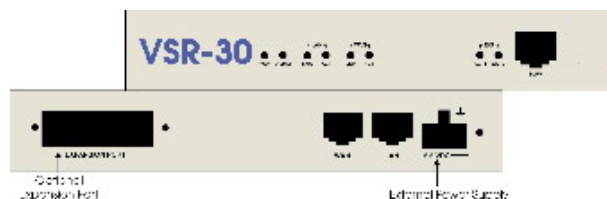
The VSR-30 is an extremely affordable solution for satellite operators and system integrators offering managed IP VPN solutions that need to span both satellite networks and the internet. The strong price/performance ratio, no software licensing fees, and obsolescence-proof design make the VSR-30™ an attractive and economical choice for both enterprise customers and broadband satellite carriers and systems integrators.

EASY INSTALLATION AND MANAGEMENT

Menu-driven user interface, support of SNMP management and plug-and-play features allow for remote configuration and support from a centralized Network Operation Center (NOC). A multi-level password protection scheme limits access to authorized users and personnel.

VERSATILITY

The small, standalone design of the VSR-30 unit, its ELIOS™ operating system, and its use of standards-based IPsec make it easy to integrate with other networking equipment, and allow it to interoperate with off-the-shelf IPsec software clients. Two 10/100 Base-T auto-sensing Ethernet ports handle LAN and WAN connectivity. An optional expansion module provides a DMZ Ethernet port for expanded LAN/WAN capability. A dedicated supervisory console port is standard.



TECHNICAL SPECIFICATIONS

Architecture

ELIOS™ operating system; high performance RISC-based processor; VPN hardware assist; IP QoS tagging, classification and enforcement

Port Interfaces

Standard: 2 Ethernet 10/100 Base-T auto-sensing RJ45 connectors for LAN and WAN. Optional expansion slot for third DMZ Ethernet port

Network Protocol Support

PPPoE; IP; Ethernet

IP Routing

Static routing, standard RIP v1/v2; IP fragmentation/reassembly; routing over VPN tunnels; DHCP client/server/BootP; IP QoS, priority queueing, dynamic bandwidth allocation, Diffserv marking and classification, 802.1q VLAN tagging, VRRP (RFC 3768)

IP VPNs

Support of up to 30 simultaneous tunnels; User and port based tunnels; tunnel initiation, pass-through, multiplexing and termination; standard IPsec encryption (RFC2401); GRE (RFC 1701); Selective Layer Encryption (SLE); DES (56bit) and 3DES (168 bit) encryption; ESP (RFC2406) and AH (RFC 2402) encapsulation; HMAC MD5 (RFC2403) and HMAC SHA-1 (RFC 2404) authentication; IKE(RFC 2409), ISAKMP(RFC2408) and PKI (X.509) key exchange; CEP & Digital Certificates and DH groups; Compatible with other IPsec VPN clients; IPsec to SLE tunnel internetworking

Stateful Firewall

Built-in stateful packet inspection firewall functionality; IP filtering; protection against Denial of Service (DoS) attacks, additional DMZ LAN port; NAT and PrAT (Private Address Translation)

Product Compatibility

Satellite Modem Vendors
 Viasat: Linkstar
 Gilat: HSi 500
 iDirect: NM 500
 Hughes: Direcway DW 4020, DW 6000
 EMS: SIT2000
 Comtech: TurboIP

Network Management

Supervisory port (out-of-band); telnet (in-band); multi-level password protection; FTP for software upgrades and configuration updates; SNMP (MIB-II with extensions)

Physical Specifications

Height: 1.7 in. (4.32 cm); width: 8.36 in. (21.34 cm);
Depth: 9.0 in. (22.86 cm);
Weight: 1.5 lb. (0.68 kg)
Power (external): 100 to 240 VAC, 50–60 Hz; auto-ranging
Temperature: 32° to 104° F (0° to 40° C)
Humidity: 10% to 85% non-condensing
Altitude: Up to 10,000 ft. (3,048 m)

Agency Compliance

Safety: ANSI/UL Std. No. 60950, 3rd Edition (U.S. Safety)
 CAN/CSA-C22.2 No. 60950 (Canadian Safety)
 EN 60950, European Safety (CE Mark)
Emissions: FCC Part 15, Sub-Part B, Class A (U.S.)
 EN 55022: 1998 (Europe)
Immunity: EN 55024: 1998 (Europe)