## High Performance VPN Platform Optimized For Hybrid Broadband Networks

**An integrated security gateway that has been optimized to support high-performance security and VPN solutions over satellite and hybrid broadband networks.**

Encore Networks' VSR 1200™ is an integrated security gateway that has been optimized to support high-performance security and VPN solutions over satellite and hybrid broadband networks. With a designed based on next-generation high-performance processing architecture and purpose-built VPN acceleration processors, the VSR 1200™ can meet the requirements of network scalability and application security for carriers and enterprise customers.

The VSR 1200™ is designed for broadband satellite-based VPN using Encore's innovative patented Selective Layer Encryption (SLE) VPN optimization feature. The VSR 1200™ works across multi-vendor satellite network provider solving the issues of performance degradation associated with running open-standards-based IPSec over TCP-accelerated satellite connections.

The VSR 1200™ is a integratedIP router ,Ethernet Switch and stateful-inspection Layer 4 firewall with best-of-breed IP VPN features, IP routing, advanced QoS, dynamic packet inspection firewall, embedded address management capabilities, and legacy data support., with the scalable performance needed for the most demanding network applications.

### SCALABLE ARCHITECTURE
The VSR 1200™ is designed based on next-generation hardware, RISC-based architecture, and high performance packet and encryption processors. Such scalable architecture allows service providers to support small, medium, and large-enterprise customers running bandwidth-intensive applications over satellite networks.

### HIGH PERFORMANCE VPN SOLUTIONS
Encore Networks' patented Selective Layer Encryption capability provides channel-efficient VPN solutions over satellite and hybrid networks. Interoperating with different satellite-modem vendors and IP Performance Enhancing Proxy (PEP) providers.

### CONVERGENCE OF LEGACY APPLICATIONS
Convergence of legacy data applications to broadband IP networks is feasible with the VSR 1200™ via the use of the high-density serial module RDU™ (2 RDUs per VSR-1200™). Each RDU™ supports up to 12 serial ports. A smooth migration strategy solution for both remote terminals and legacy hosts is supported via terminal server emmulation and conversion of legacy M2M and SCADA protocols including SDLC, bisync, X.25, polled async, DNP, CDC, X.42, and more.

### EASY INSTALLATION AND MANAGEMENT
SNMP management using HP Openview and other standards based management platforms. Plug-and-play support for remote router configuration and support from a centralized Network Operation Center (NOC).

## Key Features

- ▶ Scalable architecture and redundant power supplies
- ▶ Proven ELIOS™ operating system
- ▶ Innovative SLE-based VPN solutions for VSAT
- ▶ eTerminal server emmulation and conversion of legacy data applications to IP
- ▶ Advanced QoS and CoS settings
- ▶ Support of DHCP, NAT and Private Address Translation (PrAT)

## Key Benefits

- ▶ Reliable and high-performance VPN solutions over hybrid networks (terrestrial, wireless, and satellite)
- ▶ Enables value-added services and applications to enterprise customers
- ▶ Interoperability with key satellite-modem vendors to produce high-performance VPN over satellite
- ▶ Provides solutions for vertical markets, including banking, travel, utility and lottery
- ▶ Meets the requirements of mission-critical applications such as VoIP and video
- ▶ Works with the satellite Performance Enhancing Proxy Servers (PEP)
- ▶ Dynamic IP address configuration management and administration

VSR 1200™
VPN Router

Front

Back

## TECHNICAL SPECIFICATIONS

### Architecture
ELIOS™ operating system; high performance RISC-based processor; VPN hardware acceleration processors to guarantee high performance; IP QoS tagging, classification and enforcement.

### Port Interfaces
**Standard:** 2 Ethernet 100 BaseT/GigE auto-sensing ports for LAN and WAN. 8 Ethernet Switching 10/100 BaseT ports,
**Optional:** External Remote Data Unit (RDU™) modules supporting 12 to 24 serial ports for legacy protocol conversion and polling emmulation.

### IP Routing
IP fragmentation/reassembly; standard RIP v1/v2; static routing, routing over VPN tunnels; DHCP client/server/relay, BootP; IP QoS, priority queuing, dynamic bandwidth allocation, Diffserv marking and classification. 802.1q/p VLAN tagging and prioritization.

### IP VPNs
Support up to 1200 simultaneous tunnel interfaces; tunnel initiation, pass-through, multiplexing and termination; standard IPSec encryption (RFC2401); GRE (RFC 1701); Selective Layer Encryption (SLE); AES 256, 128; DES and 3DES encryption; ESP (RFC2406) and AH (RFC 2402) encapsulation; HMAC MD5 (RFC2403) and HMAC SHA-1 (RFC 2404) authentication; IKE (RFC 2409), ISAKMP (RFC2408); CEP and Digital Certificates and DH groups; compatible with other IPSec VPN clients and gateways. SLE-to-IPSec tunnel switching.

### Stateful Firewall
Built-in Layer 4 stateful firewall functionality and advanced cyber security features, IP filtering, protection against Denial of Service (DoS) attacks, NAT and Private Address Translation (PrAT).

### Redundancy and High Availability
Support of VRRP (RFC 3768), Virtual Broadband Redundancy System (VBRS) for legacy host applications, device and line failure detection and recovery, auto-learning of IP routes. Fail-over based on flexible policies and network configuration criteria. Dual redundant and load-sharing power supplies with separate AC inputs.

### Network Management
Supervisory port (out-of-band), internal modem dial-in (out-of-band), telnet (in-band), multi-level password protection; TFTP for software upgrades and configuration updates, SNMP (MIB-II with extensions)

### Satellite ModemCompatibility
Hughes Network Systems
iDirect
Viasat
Spacenet

### Physical Specifications
**Electrical**
  Dual Redundant Power:  100 to 240 VAC, 50–60 Hz; auto-ranging; two separate AC power inputs
**Physical**
  Height:          1.75 in. (4.45 cm);
  Width:           19 in. (48.26 cm);
  Depth:           8.3 in. (21.08 cm);
  Weight:          4 lb. (1.81 kg)
  Installation Type:  Rackmount (1u)
**Environmental**
  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
**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)

Specifications subject to change

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