

BANDIT-IP™

Broadband Access Network Device for Intelligent Termination

Cost-Effective Broadband IP VPN Appliance

Designed specifically for Small Office/Home Office (SOHO) applications, Encore Networks' BANDIT-IP™ is a purpose-built Virtual Private Network (VPN) gateway that gives personnel in remote offices and telecommuters access to the private corporate network while on the road or working at home. It is also a VPN appliance solution that carriers can offer to their existing broadband customers to provide value-added VPN services. Built with security and ease of management in mind, the BANDIT-IP™ features IPSec VPN tunneling, stateful inspection firewall, built-in router functionality, authenticated remote user access, Network Address Translation (NAT) for simplifying IP address management, and comprehensive diagnostic and troubleshooting tools, all in one box.

Today's enterprise and carrier customers want to capitalize on the economy of using the Internet public infrastructure, while at the same time preserving the security of data traveling between the corporate office, regional and branch offices, and the remote networks users. Positioned between the IP core network and the Local Area Network (LAN), the BANDIT-IP™ provides the perfect solution for cost-effective, secure managed IP VPN networks over different flavors of existing broadband networks like DSL, cable, satellite, and Wi-Fi.

- ◆ Remote office/branch office solution
- ◆ Agnostic broadband access (DSL, cable, satellite, Wi-Fi)
- ◆ Protection of corporate Intranet assets via a comprehensive stateful firewall
- ◆ Support of mission-critical data via Quality of Service (QoS) features



- ◆ Cost-effective IP VPN solution
- ◆ Inexpensive to set up and maintain — low cost hardware, no software licensing
- ◆ Worry-free protection of data and management functions with IPSec encryption
- ◆ Preservation of existing and private IP addresses

COST-EFFECTIVE SOLUTION

The BANDIT-IP™ is an extremely affordable solution for carriers offering managed IP VPN solutions. The strong price/performance ratio, no software licensing fees, and obsolescence-proof design make the BANDIT-IP™ an attractive and economical choice for both enterprise customers and carriers.

INVESTMENT PROTECTION

Enterprise and carrier networks can offer managed IP VPN solutions over existing broadband services, while continuing to provide value-added services to their customers. The BANDIT-IP's broadband-agnostic capabilities include compatibility with cable, DSL, satellite, and Wi-Fi modems.

EASY INSTALLATION AND MANAGEMENT

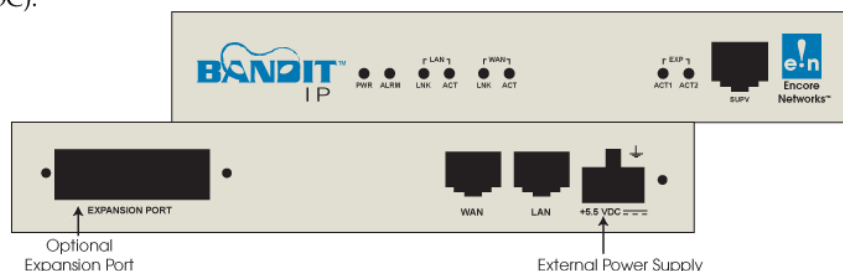
SNMP support and plug and play features simplify deployment and keep overall operating expenses low. The menu-driven software interface reduces the cost to provision services and troubleshoot network problems from the Network Operating Center (NOC).

IPSEC VPN TUNNELING AND SECURITY

The BANDIT-IP™ is a versatile VPN appliance, providing up to 30 simultaneous tunnel connections. The use of hardware-assisted technology allows the BANDIT-IP™ to perform IP routing and encryption without impacting overall performance and throughput. Internal IP addresses can be preserved at both remote and host locations, through a combination of Network Address Translation (NAT) and Private Address Translation (PrAT). This results in simplifying deployment and easing management of VPN services.

VERSATILITY

The small, standalone design of the BANDIT™ unit 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 56/64 kbps DSU port; or a DMZ Ethernet port for expanded LAN/WAN capability. A dedicated supervisory console port is standard.



TECHNICAL SPECIFICATIONS

Architecture

High performance RISC-based processor; VPN hardware assist; IP QoS enforcement, CIR enforcement

Port Interfaces

Standard: 2 Ethernet 10/100 Base-T auto-sensing RJ45 connectors for LAN and WAN
Optional: expansion slot for choice of 56/64 kbps DSU port or third DMZ Ethernet port

Network Protocol Support

Frame Relay; PPP; PPPoE; IP; Ethernet

IP Routing

Simple static routing; RIP V1/V2 routing protocols; IP fragmentation/reassembly; routing over tunnels; DHCP/Bootp; DHCP client/server

IPSec VPN

User- and port-based tunnels; tunnel initiation, pass-through, multiplexing, switching, and termination; standard IPSec encryption (RFC 2401); DES (56 bit) and 3DES (168 bit) encryption; ESP (RFC 2406) and AH (RFC 2402) encapsulation; HMAC MD5 (RFC 2403) and HMAC SHA-1 (RFC 2404) authentication; IKE (RFC 2409) and ISAKMP (RFC 2408) key exchange; compatible with other VPN IPSec clients; up to 30 simultaneous tunnels

Stateful Firewall

Built-in stateful firewall functionality; IP filtering; protection against Denial of Service (DoS) attacks; additional DMZ LAN port

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)

Typical BANDIT Network with Broadband or Satellite Connectivity

