

BANDIT PLUS™

Broadband Access Network
Device for Intelligent Termination

High Performance, Multi-Service IP VPN Solution

Designed for IP-based, next-generation, multi-service broadband networks, the BANDIT-Plus™ is the product service providers and enterprise customers have been waiting for when it comes to deploying more cost-effective solutions for voice, Virtual Private Network (VPN), security, and data over a single broadband connection. Because the BANDIT-Plus™ can terminate hundreds of encrypted connections over secure IPSEC tunnels. It supports a wide range of legacy protocols, enterprise customers and can be deployed as a VPN host gateway for migrating legacy applications to a packet-based VPN infrastructure.

Packed with a wide range of feature choices, the purpose-built, 19-inch, 1U high, rackmountable BANDIT-Plus™ provides a large capability within a small footprint. It includes multiple Ethernet ports, a built-in V.90 modem, a universal serial interface, and an optional expansion module that supports a variety of physical interfaces, such as 56/64 kbps DSU, T1/E1 CSU, Ethernet, and a secondary serial interface. Also, a two port T1/E1 with "drop and Insert" capability enables connection to existing PBXs and provides the ability to integrate voice, data, and VPN applications on a single network facility. A high density serial port allows the BANDIT-Plus™ to act as a host VPN gateway.

Position Your Network for the Future

- ◆ T1/E1 drop & insert of voice and data traffic over a single facility
- ◆ High performance termination of 100s of IPsec VPN tunnels
- ◆ Protection of corporate Intranet assets via comprehensive firewall capabilities
- ◆ Network Address Translation (NAT) and Private Address Translation (PrAT) to simplify deployment and ease management of VPN services
- ◆ Graceful migration of legacy data to IP VPNs
- ◆ VPN host gateway solutions for legacy and IP applications
- ◆ Rich feature set, ease of management — low cost hardware, no software licensing fees
- ◆ Worry-free protection of data and management functions with IPsec encryption



COST-EFFECTIVE SOLUTION

The BANDIT Plus™ is a compelling solution for applications that require multi-service functionality. Using a single device to consolidate networking tasks reduces hardware costs and simplifies network operations. Networks currently using multiple devices to handle voice and data traffic, IP routing, VPN, firewall, and legacy protocol support will see improved performance and significant savings. The strong price/performance/functionality ratio, no software licensing fees, and obsolescence-proof design make the BANDIT Plus™ an attractive and economical choice for corporate networks for terminating 100s of branch offices and remote locations.

INVESTMENT PROTECTION

Enterprise and carrier solution providers can provide managed IP VPN solutions over existing broadband services, while continuing to offer value-added services to their customers. Voice and data traffic can be transmitted over existing facilities. Simplifying voice, data, and VPN billing results in reducing the overall cost for both carriers and enterprise customers.

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.

IPSEC VPN TUNNELING AND SECURITY

The BANDIT Plus™ is a versatile VPN gateway, supporting 100s of simultaneous IPsec tunnel connections. The use of hardware-assisted technology allows the BANDIT Plus™ to perform IPsec encryption, stateful inspection, and IP routing without impacting overall performance and throughput. Internal IP addresses can be preserved and managed through a combination of Network Address Translation (NAT) and Private Address Translation (PrAT).

VERSATILITY

The 19-inch, 1U rackmountable design of the BANDIT Plus™ unit and its use of IPsec standards 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 subscriber interfaces to the device. An RS-232, V.35, or X.21 serial port is suitable for applications that support legacy protocols, such as SDLC, X.25, ALC, and polled async. An optional expansion module provides for the addition of a 56/64 kbps DSU port; a single T1/E1 channelized CSU port; a dual port T1/E1 CSU with drop & insert; a high density serial card, or a DMZ Ethernet port for expanded LAN/WAN capability. A dedicated supervisory console port is standard, as is an internal V.90 modem for dial backup applications and remote management.

To Order

Call 1-847-252-7100 or email - sales@teleprime.com

FEATURES AND BENEFITS

Multi-Service Platform

Single multi-function unit replaces need for multiple single-function units — router/FRAD; IPSec VPN gateway; firewall; legacy data protocol support; TDM voice termination and transport; and dial backup capability

Integrated Voice and Data

A two-port T1/E1 card with drop & insert capability enables integration of voice, data, and VPN applications over a single facility

Flexible Connectivity

Meets customer requirements today and tomorrow.

Standard: two Ethernet 10/100 Base-T auto-sensing connections for LAN or WAN using standard RJ45 ports; serial universal interface; internal V.90 modem for dial backup or remote management

Optional: expansion slot for serial port; Ethernet port; 56/64 kbps DSU; T1/E1 CSU; dual port T1/E1 with drop & insert capability

Optional: high density serial card

IP Security and VPN

Interoperates with off-the-shelf IPSec VPN clients; provides tunnel passthrough, initiation, multiplexing, switching, and termination; DES and 3DES encryption; ESP and AH encapsulation; HMAC MD5 and HMAC SHA-1 authentication; IKE and ISAKMP key exchange; terminates 100s of IPSec tunnels

Corporate Network Security

Dynamic stateful firewall functionality protects corporate networks — event logging; protection against Denial of Service (DoS) attacks; IP filtering

Cap and Grow Strategy

Extensive legacy protocol support paves the way for a graceful migration path of data or voice applications to a packet-based VPN infrastructure

Disaster Recovery

Dial backup and fail-over via built-in V.90 modem, 56/64 kbps DSU, or Ethernet connection

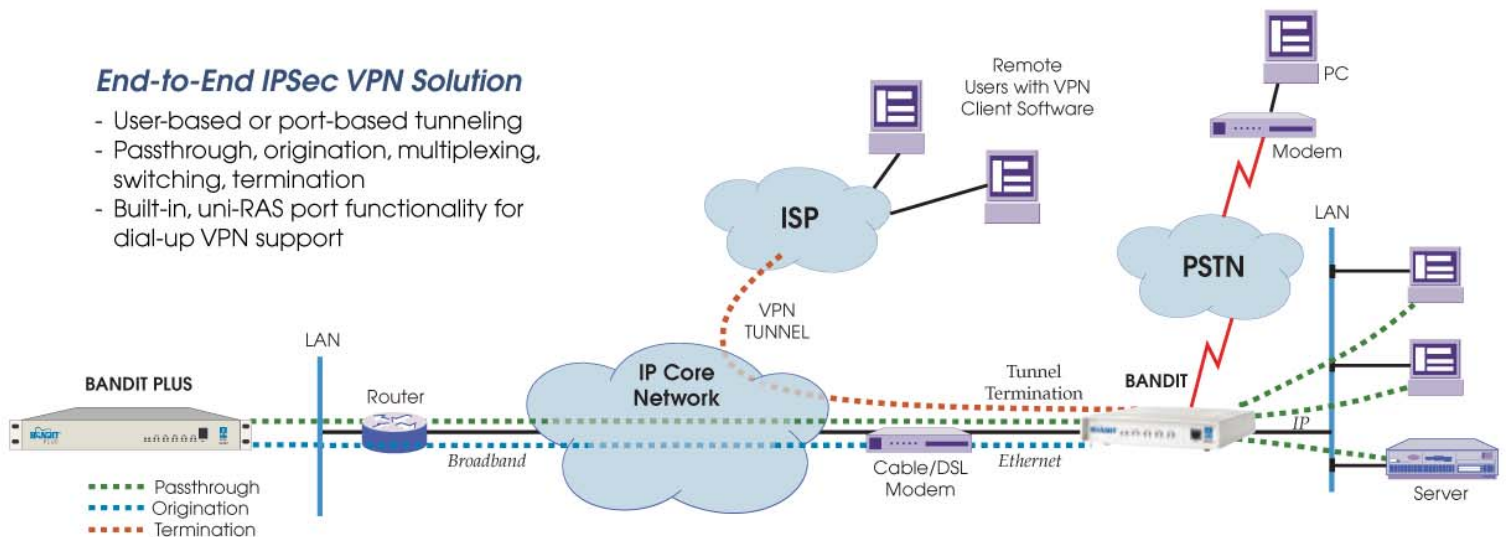
Plug and Play Configuration

Comprehensive built-in troubleshooting and diagnostic tools that reduce the time it takes to identify and resolve problems

APPLICATION EXAMPLES

End-to-End IPSec VPN Solution

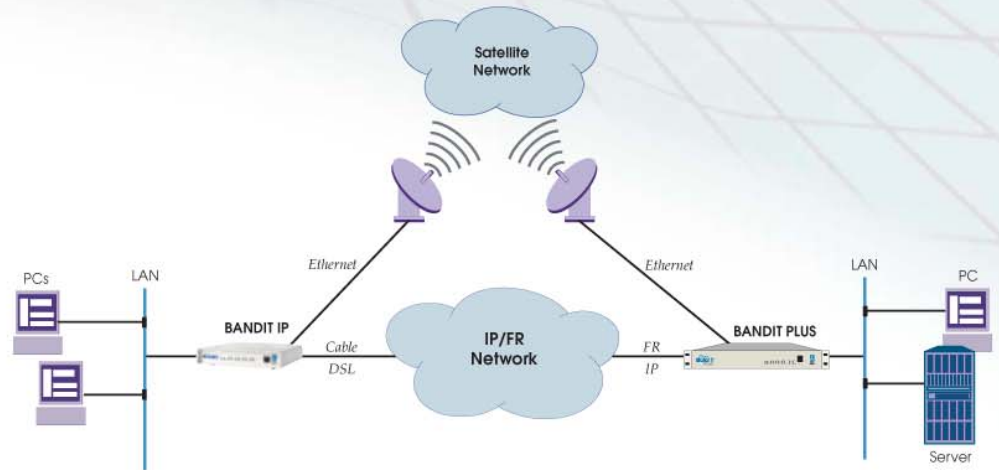
- User-based or port-based tunneling
- Passthrough, origination, multiplexing, switching, termination
- Built-in, uni-RAS port functionality for dial-up VPN support



APPLICATION EXAMPLES *(continued)*

Broadband VPN Solution

- Multi-branch connections



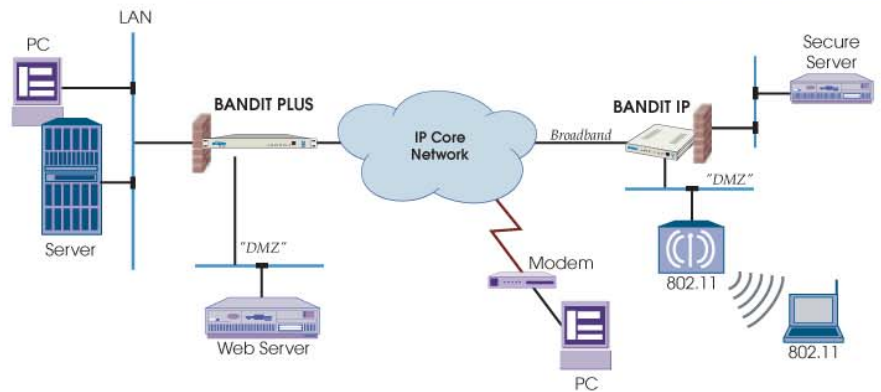
Legacy VPN Host Gateway

- Migration of legacy protocols to packet-based networks



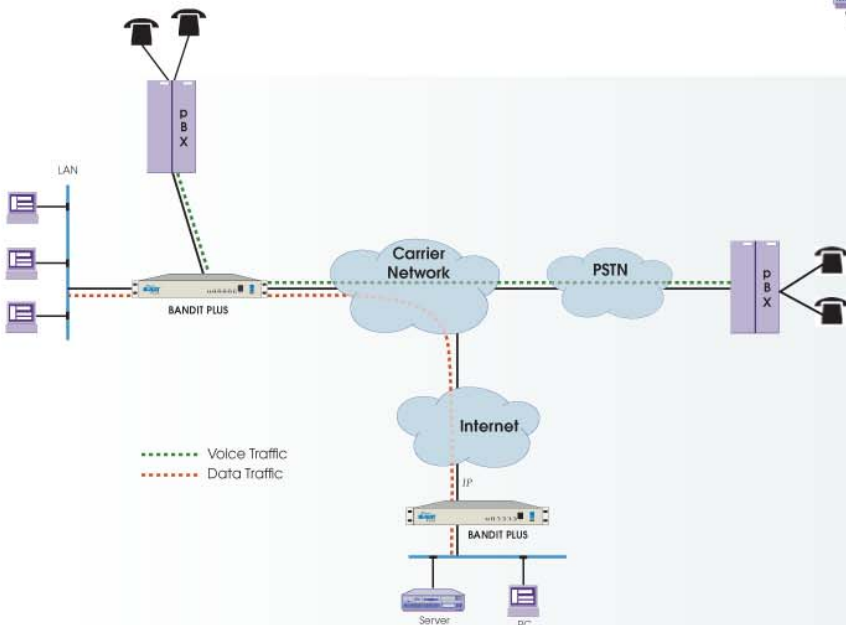
Total Security (VPN & Firewall)

- Built-in stateful firewall functionality
- IP filtering
- Protection against Denial of Service (DoS) attacks
- Optional DMZ LAN port



Multi-Service VPN Solution

- TDM voice and packet data channeled on one facility
- Significant cost savings in reduced equipment and transports
- Built-in VPN and firewall support
- Built-in IP routing



TECHNICAL SPECIFICATIONS

Architecture

High performance RISC-based processor; dedicated hardware assist encryption; IP QoS enforcement, CIR enforcement and traffic management

Port Interfaces

Standard: 2 Ethernet 10/100 Base-T auto-sensing RJ45 connectors for LAN and WAN; serial port: RS-232, V.35, X.21 for legacy applications such as SDLC, X.25, ALC, MATIP, async, and polled async; standard internal V.90 modem;
Optional: expansion slot for choice of additional serial port, DMZ Ethernet port, 56/64 kbps DSU port, single T1/E1 channelized CSU port, dual T1/E1 with drop & insert
Optional: high density serial card

Network Protocol Support

Frame Relay; PPP; Multi-link PPP; PPPoE; X.25; IP; Ethernet

IP Routing

Simple static routing; standard IP 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; 100s of simultaneous IPSec tunnels

Stateful Firewall

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

Dial Backup

PAP/CHAP authentication; PPP; fast switchover; auto-learning of IP routes; incoming or outgoing connections

Network Management

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

Physical Specifications

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)
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)

