



DI-804HV

IP Router/Broadband Internet Gateway with 40 IPSec tunnels support and 4 built-in Fast Ethernet switch LAN ports.

Cable/DSL VPN Router With IPSec and 4-port Switch

The DI-804HV is a high-performance broadband router with secure data transmission designed for branch office communication. Cost-effectively linking a small office to the outside world through the Internet, the router offers an alternative to the cost-prohibitive point-to-point dedicated connectivity of leased lines. This business-class router provides IPSec security for Virtual Private Network applications, enabling you to extend your branch network to remote networks, such as your corporate office or a trusted supplier, to act as if the two are a single LAN. In addition, the router also provides cost-saving Internet functions to let you share a single cable/DSL modem and ISP account among your office users, while providing them with physical connections through the built-in LAN switch ports.

Secure Transmission Over the Internet

The DI-804HV prevents your confidential data from being accessed and tampered with when traveling along the public Internet to your destinations. Through VPN tunneling protocols, the router privatizes your communication channels. You can safely exchange mail and data with your head office over the Internet, without fear of observation, modification, or spoofing.

IPSec and Multi-Level VPN Services

With support for up to 40 IPSec tunnels, the router can provide flexible VPN implementation for data confidentiality, integrity and origin authentication to 40 remote sites and telecommuters. Supported data encapsulation, encryption and authentication options include IP ESP, DES, 3DES, MD5 and SHA-1. This enables you to carry out applications such as virtual private networks, including Intranets, Extranets, and remote user access.

Powerful Routing Engine

The router is equipped with a powerful RISC CPU and large RAM to perform its intensive security tasks. This allows the router to work without data throughput degradation while supporting DES/3DES encryption and other security features.

Business-class LAN Security

The router provides firewall security using Stateful Packet Inspection (SPI) and hacker attack logging for Denial of Service (DoS) attack protection, plus VPN pass-through for extra security. SPI inspects the contents of all incoming packet headers before deciding what packets are allowed to pass through. The router also blocks and re-directs certain ports to limit the services that outside users can access on your network. Virtual Server Mapping is used to re-task services to multiple servers. The router can be set to allow

separate FTP, Web, and Multiplayer game servers to share the same Internet-visible IP address while still protecting your servers and workstations from hackers.

DMZ Host to Open Public Domain

You can configure any of the built-in LAN ports of the router to function as a DMZ port. A DMZ setting can be applied to a single client (such as a Web server) behind the DI-804HV to fully expose it to the Internet and ensure complete Internet application compatibility even if the specific port is not known. This allows you to set up web sites and e-commerce applications from your office while maintaining protection for the rest of your office LAN.

Simplified, Cost-saving Broadband Internet Connection

Of course, the basic benefit is to share the broadband line to the entire office, using a single cable or DSL modem. To let everybody logon, the router automatically creates and assigns an IP number for each computer, simplifying every one's logon operation.

4 Switch Ports for Ready LAN Connection

With 4 built-in auto-sensing 10/100Mbps Fast Ethernet switch ports, the router provides ready connection for workstations and servers, saving you the cost and trouble of installing a separate LAN switch.

UPnP Enabled for Compatibility

The router is designed for easy and robust connectivity among heterogeneous standards-based network devices. Computers can communicate directly with the router for automatic opening and closing of UDP/TCP ports to take full advantage of security provided without sacrificing functionality of on-line applications such as video conferencing.

Key Features

- 168-bit 3DES IPSec advanced VPN security
- 3DES with SHA-1 advanced secure configuration
- Up to 40 VPN tunnels to 40 remote sites
- DoS, SPI, packet filtering firewall protection
- 10/100Mbps port for DSL/cable modem connection
- RS-232 COM port for ISDN or 56Kbps analog modem backup
- 4 10/100Mbps switch ports for 4 workstation/server connections
- Dial-on-Demand & idle timer auto-disconnection (for dial-up ISDN & analog connection)
- Aggressive/main client mold for VPN
- Web-based configuration setup
- Enabled NetBIOS broadcast
- Dynamic DNS support
- SDI Service (Home Internet Solution) port
- Universal Plug-n-Play (UPnP) enabled

DI-804HV

Technical Specifications

Broadband VPN Router

Hardware

Number of Ports

- 1 RJ-45 10BASE-T/100BASE-TX port for DSL/Cable modem connection
- 1 DB-9 RS-232 port (460Kbps Baud) for ISDN TA/analog modem connection (for WAN backup)
- 4 RJ-45 10BASE-T/100BASE-TX 10/100Mbps LAN switch ports

Broadband Support

- DSL modem
- Cable modem
- PPP over Ethernet (PPPoE)

Backup Link Support

- Dial-up ISDN TA
- Dial-up Analog modem
- PPP
- Dial-on-Demand with auto login to ISP
- Auto-disconnect with user-defined idle timer
- PAP/CHAP security

Routing

Routed Packet Type

IP packets

Routing Protocols & Methods

- RIP-1, RIP-2
- Static Routing
- Dynamic Routing

VPN & IPSec

Application Support

- IPSec pass-through
- PPTP pass-through
- L2TP pass-through

Data Encryption Methods

- IP ESP (Encapsulating Security Payload)
 - Confidentiality over IP payload
 - Optional authentication of IP payload and ESP header
- Null encryption

Encryption Transforms

- 56-bit DES (Data Encryption Standard)
- 168-bit 3DES

Authentication Transforms (for ESP and AH)

- MD5
- SHA-1

Security

- Pre-shared key
- Manual key
- IKE Security Association (SA) assignment

Connection Modes

- Site to Site
- Client to Site

Number of Tunnels

40 IPSec tunnels (max.)

Internet Gateway & Firewall

Supported Functions

- Network Address Translation (NAT)
- DHCP server automatic IP assignment
- Virtual server

Packet Inspection

Static Packet Inspection (SPI)

Number of DMZ Ports

1 port (user-assignable to any LAN port)

Firewall Security

- Stateful Packet Inspection (SPI) to prevent Denial of Service (DoS) attacks (Syn flood, ICMP flood, UDP flood, "ping of death", IP spoofing, land attack, tear drop attack, IP address sweep attack, Win Nuke attack)
- Intrusion Detection Logging
- LAN/WAN filtering

Management & Configuration

IP Number Self-identification

Through DHCP client

Local & Remote Management

Web-based utilities (via browser)

Firmware Upgrade

Web-based (via browser)

Physical & Environmental

Diagnostic LEDs

- Link (WAN port and serial port)
- Act (WAN port and serial port)
- Link/Act (per LAN port)
- 100Mbps (per LAN port)
- Power (per device)

Power Supply

- DC 5V 2A
- Through external AC power adapter

Dimensions

190 x 117 x 31 mm

Weight

153 grams (0.34 lb.)

Operating Temperature

-5° - 45°C (23° - 113° F)

Storage Temperature

-20° - 70°C (-4° - 158° F)

EMI Certification

- FCC Class B
- CE Class B
- C-Tick



ACN 052 202 838

Ordering Information

Broadband Internet Gateway With VPN Security

DI-804HV

- 1 RJ-45 10BASE-T/100BASE-TX port (for DSL/cable modem connection)
- 1 RS-232 COM port (for ISDN TA/analog modem connection)
- 4 RJ-45 10BASE-T/100BASE-TX switch ports

Please specify one of the following after the model number:

- /U Includes no AC power adapter
- /A Includes an American standard AC power adapter
- /E Includes an EU standard AC power adapter
- /B Includes a UK standard AC power adapter
- /N Includes an Australian standard AC power adapter
- /CN Includes a China standard AC power adapter

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