

**BiGuard 2**


## iBusiness Security Gateway Home-office

BiGuard 2 is a compact device of 8-port switch ideally designed for home offices or mobile users requiring application-based network solutions with low-capital investment to dial up and connect to the corporate network. Robust VPN functions support office users to create remote access of multiple site-to-site encrypted private connections over the public Internet. The complete firewall features are built in to protect your network from intruders and Internet attacks. With the growing demand of Voice over IP and multimedia applications like video broadcasting from SMB and SOHO users, the device features SIP pass-through and IGMP Snooping to facilitate demands. BiGuard 2 is the best suited but the most affordable choice for telecommuters and home offices.

- Support up to 2 IPSec VPN connections
- IPSec VPN performance is up to 4 Mbps+
- Support up to 4 PPTP VPN connections
- PPTP VPN throughput is up to 10 Mbps
- SIP pass-through for Voice over IP protocol
- 8-port switch makes no need of extra device for home offices when increasing server/client network
- Robust Firewall security to protect office network
- E-mail alert and logs of attack
- Quality of Service (QoS) control
- DMZ support for public servers to be visible to the outside world
- Easy-to-use Web interface for administrator to manage network security
- Support IPTV application\*
- Ideal for mobile users and home offices



▲ BiGuard 2

### Benefits

#### No Need of Extra Device

Integrated with 8-port switch, BiGuard 2 lets home offices directly connect up to eight local PCs without need of additional switch or Hub, which normally provides the capacity of 4 LAN ports. In addition, rich feature set combined in one compact unit, BiGuard 2 is the best and most affordable choice for telecommuters and home offices.

#### Virtual Private Network Support

BiGuard 2 supports comprehensive and robust IPSec & PPTP VPN protocols for business users to establish private encrypted tunnels over the public Internet to ensure data transmission security among multiple sites, such as branch office or remote dial-up. The VPN feature supports up to 2 simultaneous IPSec VPN connections with performance up to 4 Mbps+ and 4 simultaneous PPTP VPN connections with performance up to 10 Mbps.

#### Rich Firewall Security to Protect Your Network

BiGuard 2 is an intelligent broadband sharing gateway with integrated firewall protection, while simultaneously offering features such as Stateful Packet Inspection (SPI), Denial of Service (DoS) Prevention and Filtering. Built-in Stateful Packet Inspection (SPI) determines if a data packet is allowed to pass through the firewall to the private LAN. It protects against hackers attack by Denial of Service to allow private LAN securely connected to the Internet. Furthermore, the firewall function provides e-mail alert service to notify you whenever attacks occur.

#### Traffic Prioritization and Bandwidth Management

The Quality of Service (QoS) feature helps users manage the bandwidth and prioritize the traffic of data effectively. It gives you full control over the traffic of any type of data. It ensures important data like customer information, or management information can move through the device at lightning speed, even under heavy load. You can control the transmission speed for inbound and outbound data passed through the router to ensure users do not saturate the bandwidth and browsing activities.



## Features & Specifications

### Virtual Private Network

- IPsec VPN, support up to 2 IPsec tunnels
- IPsec VPN performance is up to 4 Mbps+
- PPTP VPN, support up to 4 PPTP tunnels
- PPTP VPN performance is up to 10 Mbps
- Manual key, Internet Key Exchange (IKE) authentication and Key Management
- Authentication (MD5 / SHA-1)
- DES/3DES encryption
- AES 128/192/256 encryption
- IP Authentication Header (AH)
- IP Encapsulating Security Payload (ESP)
- VPN Concentrator
- Dynamic IPsec VPN support
- IPsec NAT Traversal (IPsec NAT-T)
- IPsec DPD (Dead Peer Detection)
- Support remote access and office-to-office IPsec Connections
- PPTP Server
- Netbios over VPN

### Firewall

- Stateful Packet Inspection (SPI) and Denial of Service (DoS) prevention
- Packet filter un-permitted inbound (WAN)/outbound (LAN) Internet access by IP address, port number and packet type
- E-mail alert and logs of attack
- MAC Address Filtering

### Content Filtering

- URL Filter settings prevent user access to certain keyword/domain on the Internet
- Java Applet/Active X/ Web Proxy/Surfing of IP Address/Cookie Blocking

### Quality of Service Control

- Support DiffServ approach
- Traffic prioritization and bandwidth management based-on IP protocol, port number and address
- Policy control based on IP address or MAC address

### Web-Based Management

- Easy-to-use WEB interface
- Smart VPN setup wizard
- Firmware upgraded via WEB interface
- Local and remote management via HTTP & HTTPS

### Network Protocols and features

- System Log
- PPPoE, PPTP, Big Pond and DHCP client connection to ISP
- NAT, static routing and RIP-2
- Dynamic Domain Name System (DDNS)
- Virtual Server and DMZ
- DHCP Server
- NTP
- SMTP Client
- SNMP
- SIP Pass-through
- IGMP snooping & IGMP Proxy
- Port based VLAN Bridge mode
- Multiple NAT (Multiple LAN & Multiple WAN)

### IPTV Application \*

- IGMP Snooping
- Virtual LAN (VLAN)
- Quality of Service (QoS)

### Hardware Specification

#### Physical Interface

- Ethernet WAN 1 port (10/100 Base-T, MDI/MDIX)
- Ethernet LAN 8 ports (10/100 Base-T, MDI/MDIX)

#### Physical Specification

- Dimensions: 10.43" x 6.93" x 1.73"  
(265mm x 176 mm x 44mm)

#### Power Requirement

- Input: 12V DC, 1A

### Operating Environment

- Operating temperature: 0 ~ 40 °C
- Storage temperature: -20 ~ 70 °C
- Humidity: 20 ~ 95% non-condensing

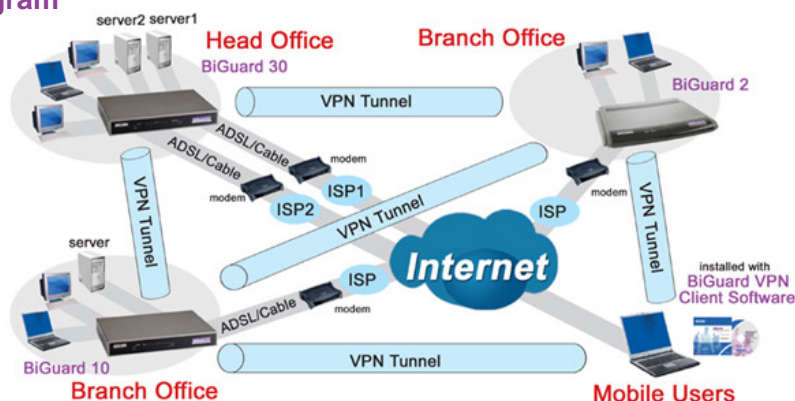


▲ BiGuard 2 Front Panel



▲ BiGuard 2 Rear Panel

## Application Diagram



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#### \* Note:

1. IPTV application may require subscribing IPTV services from Telco/ISP.
2. All the specifications are subject to changes without prior notice.