

BiGuard 30**BILLION™**

iBusiness Security Gateway SMB

BiGuard 30 is a rack-mountable security device perfectly designed for small and medium sized businesses (SMB) requiring application-based network solutions with low-capital investment to communicate with branch offices, remote dial-up and mobile workers. The Dual-WAN port design provides Load Balancing and Automatic Failover for high availability of Internet business applications, optimized bandwidth sharing, and network redundancy in case of the event that one or more connections should fail. The complete firewall features are built in to protect your network from intruders and Internet attacks. Robust VPN functions support office users to create remote access of multiple site-to-site encrypted private connections over the public Internet. With the growing demand of Voice over IP and multimedia applications such as video broadcasting from SMB users, the device features SIP pass-through, IGMP Snooping and IGMP Proxy to facilitate the needs. The Quality of Service feature ensures a smooth net connection for inbound and outbound data with minimum traffic congestion. BiGuard 30 is truly a powerful all-in-one appliance keeping your business connection secure and always online with amazingly affordable cost.



▲ BiGuard 30

- Inbound & Outbound Load Balancing for bandwidth optimization and network resilience
- Automatic Failover for network redundancy to keep your Internet connection always online
- Policy-based traffic management
- Support up to 30 IPsec VPN connections
- IPsec VPN throughput is up to 30 Mbps+
- Support up to 4 PPTP VPN connections
- PPTP VPN throughput is up to 10 Mbps
- SIP pass-through for Voice over IP protocol
- 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
- Rack-mounted support
- Support IPTV application*
- Ideal for small and medium sized business

Benefits

Increased Bandwidth, Scalability and Resilience

Dual WAN ports enable BiGuard 30 to combine two broadband lines (e.g. ADSL or Cable Modem) into one Internet connection to perform optimal bandwidth sharing for multiple PCs in your office, or to provide network redundancy in case one connection should fail. Load balancing feature is designed for SMB in Billion's BiGuard 30 to provide the ability to balance the workload by distributing incoming traffic across the two connections. It is to meet growing business requiring more bandwidth, network scalability and resilience for mission-critical or Internet-business applications. Auto failover feature can be configured for a second connection to ensure redundant connectivity when the primary line fails. It helps sustain business uptime and productivity to provide uninterrupted flow of service to your customers, while minimizing the risk of business loss.

Virtual Private Network Support

BiGuard 30 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 30 simultaneous IPsec VPN connections with performance up to 30 Mbps+ and 4 simultaneous PPTP VPN connections with performance up to 10 Mbps.

Rich Firewall Security to Protect Your Network

BiGuard 30 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.



Powering communications
with Security

ADSL Modem / Router

Wireless ADSL Router

Home Networking
ADSL Router

Broadband Router

Security Router

VoIP ADSL Modem/Router

SHDSL Bridge / Router

iBusiness
Security Appliance

Features & Specifications

Availability and Resilience

- Dual-WAN ports
- Load balancing:
 - Increased bandwidth of outbound and inbound traffic
 - DNS inbound load balance
 - Protocol binding
- Automatic failover and IPsec VPN failover

Virtual Private Network

- IPsec VPN, support up to 30 IPsec tunnels
- IPsec VPN performance is up to 30 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)
- IPsec 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

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

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

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
- Router Mode (NAT Disable)
- 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 2 ports (10/100 Base-T, MDI/MDIX)
- Ethernet LAN 8 ports (10/100 Base-T, MDI/MDIX)

Physical Specification

- Dimensions: 19" x 6.54" x 1.65" (482mm x 166mm x 42mm)

Power Requirement

- Input: 12V DC, 1A

Operating Environment

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

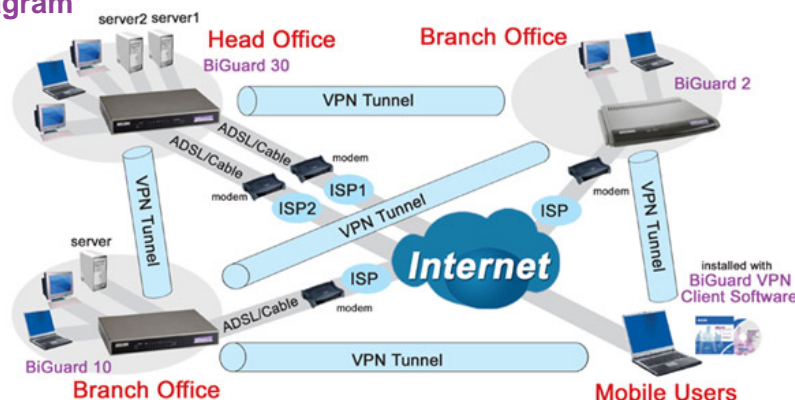


▲ BiGuard 30 Front Panel



▲ BiGuard 30 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.