

BiGuard 50G



802.11g Dual-WAN Security Gateway for SMB



The BiGuard 50G boasts a dual-WAN gateway function that also delivers a secure wireless environment via a built-in 802.11g AP, allowing you to quickly and easily set up a wireless network for added office mobility. Always-on Internet access is delivered through two connections and an Auto fail-over feature that can swap between interfaces to ensure constant communication. This product is a standalone security gateway solution designed for SMB users looking for enterprise-level access and security. Safe Internet access and browsing are delivered by the incorporated firewall with web content filtering and comprehensive security. Effective load-balancing, QoS and easy administration ensure that office users enjoy a smooth Internet experience while making sure that important data receive bandwidth priority. For on-the-road users, up to 50 secure IPSec VPN tunnels enable safe data transmission between the head office and remote sites.

- Inbound and Outbound Load Balancing for bandwidth optimization and network resilience
- Auto fail-over for network redundancy to keep your Internet connection always online
- 802.11g Wireless AP with WPA-PSK/ WPA2-PSK support
- Policy-based traffic management
- Supports up to 50 IPSec VPN tunnels
- Supports up to 4 PPTP VPN tunnels
- 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 administrators to manage network security
- Ideal for small and medium sized businesses

Always-on Internet Connection

Enjoy effective, always-on Internet sharing for all the PCs in your office thanks to load-balancing delivered by two integrated broadband WAN ports to ensure optimal bandwidth sharing, and provide network redundancy in case one of the Internet services fails. The BiGuard 50G offers flexible WAN connectivity via Cable, XDSL, or FTTX for video conferencing, data transmission, VoIP and bandwidth-consuming applications. Load balancing provides the ability to distribute the outgoing traffic across the two connections, and meet growing business needs requiring more bandwidth and network scalability so you can offer users Internet-business applications. The Auto fail-over feature can be configured for a second connection to assure redundant connectivity when the primary line fails.

Mobility and Double-layer Protection

Set up a secure wireless environment with the integrated 802.11g AP for quick and easy access with data encryption. Wireless Protected Access (WPA-PSK/WPA2-PSK) and Wireless Encryption Protocol (WEP) support ensures high-level data protection and WLAN access control. If your network requires wider coverage, the built-in Wireless Distribution System (WDS) repeater function allows you to expand the wireless network without using any wires at all. In addition, rich firewall security features such as SPI, DoS attack prevention and URL content filtering are integrated to provide unparalleled protection for Internet access. Furthermore, the firewall function provides e-mail alert service to notify you whenever attacks occur.

Virtual Private Network Support

You can establish private encrypted tunnels over the public Internet using the BiGuard 50G's support for IPSec and PPTP VPN protocols to ensure that data is transmitted securely among multiple sites, such as branch office or remote dial-up. The VPN feature supports up to 50 simultaneous IPSec VPN tunnels and 4 simultaneous PPTP VPN tunnels.

Traffic Prioritization and Bandwidth Management

Manage your bandwidth and prioritize data transfer effectively with the Quality of Service (QoS) feature which gives full control over the traffic of any type of data. Thus, important data and bandwidth-consuming applications such as video conferencing, customer information or FTP sharing, can move through the router at instantaneous speed, even when there is a heavy load. The speed for inbound and outbound data passed through the router can be controlled to ensure that users do not saturate the bandwidth with their browsing activities.



Features & Specifications

Availability and Resilience

- Dual-WAN ports
- Load balancing:
 - Increased bandwidth of outbound and inbound traffic
 - DNS inbound load balance
 - Protocol binding
- Auto fail-over and IPSec VPN failover

Virtual Private Network

- IPSec VPN: supports up to 50 IPSec tunnels
- PPTP VPN: supports up to 4 PPTP tunnels
- 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)
- Supports 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 filtering of non-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

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

Wireless 802.11g

- Compliant with IEEE 802.11g and 802.11b standards
- 2.4GHz – 2.484GHz frequency range
- Up to 54Mbps wireless operation rate
- 64/128-bit WEP supported for encryption
- Wireless Security with WPA-PSK/WPA2-PSK support
- WDS repeater function support

Content Filtering

- URL Filter settings prevent user access to certain keywords/domains 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 upgrade via Web interface
- Local and remote management via HTTP and 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
- Session limit based on IP Address
- Multiple NAT (multiple LAN and multiple WAN)

Hardware Specifications

Physical Interface

- Ethernet WAN 2 ports (10/100 Base-T, MDI/MDIX)
- Ethernet LAN 4 ports (10/100 Base-T, MDI/MDIX)
- One detachable 2.4GHz 5dBi SMA antenna

Physical Specifications

- Dimensions: 9.84" x 6.54" x 1.38"
(250mm x 166mm x 35mm)

Power Requirements

- Input: 12V DC, 1A

Operating Environment

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

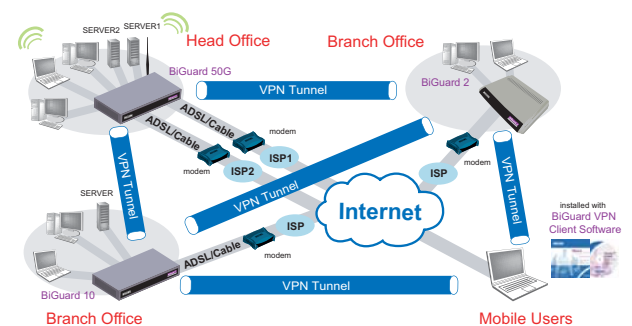


▲ BiGuard 50G Front Panel



▲ BiGuard 50G Rear Panel

Application Diagram



* Note:

1. Specifications in this datasheet are subject to change without prior notice
2. Users are strongly recommended to register at www.biguard.com for updated firmware.

V.082207