ADSL Modem / Router
Wireless ADSL Router
Home Networking ADSL Router
Broadband Router
Security Router
VoIP ADSL Modem/Router
SHDSL Bridge / Router
iBusiness Security Appliance

**BILLION** ™

## BiPAC 5200G

Green Product · ADSL2+ · Firewall · Easy Web Configuration

# 802.11g ADSL2+ Firewall Router

Billion's BiPAC 5200G is an economical ADSL2+ Firewall Router with 802.11g Wireless AP ideally designed for home and SOHO users to enjoy rich firewall security, mobility, and faster speed when using ADSL Internet connection. With integrated Wireless 802.11g AP, the router enables you to surf the Internet anywhere in your home. The router lets you share high-speed ADSL Internet connection, even faster with advanced ADSL2+ capability of downstream rate up to 24 Mbps. The powerful SOHO Firewall feature protects against hackers' attacks when you surf the Internet. VPN pass-through is also built-in for secure access. In addition, the web-based Graphic User Interface allows you to install and manage your network easily. The BiPAC 5200G makes fast wireless net surfing affordable and easy - Going online is just 'plug & play'.

▲ **BiPAC 5200G**

- 802.11g Wireless Access Point with WPA-PSK/WPA2-PSK support
- High speed Internet access with ADSL2/2+; backward compatible with ADSL
- Integrated with 4-port Ethernet Switch
- Easy Network Management
- SOHO Firewall Security with DoS Prevention and Packet Filtering
- Universal Plug and Play (UPnP) Compliant
- Dynamic Domain Name System (DDNS)
- Supports Virtual Private Network (VPN) pass-through
- Ideal for Home and SOHO Users

## Benefits

### Express Internet Access
This router complies with worldwide ADSL standards. It supports downstream rates of up to 12/24 Mbps with ADSL2/2+, 8 Mbps with ADSL, and upstream rates of up to 1 Mbps. With this technology, users enjoy not only high-speed ADSL service but also broadband multimedia applications such as interactive gaming, video streaming and real-time audio much more quickly and easily than ever. In particular, by doubling the upstream data rate, the Annex M standard included in the BiPAC 5200GA model supports the latest ADSL2/2+ for higher upload speeds.

### Wireless Mobility
With an integrated 802.11g Wireless Access Point, the router offers quick and easy access and mobility to the users of wired networks, wireless networks, and broadband connections (ADSL). In addition to supporting the 54 Mbps 802.11g data rate, it is also backward compatible with existing 802.11b equipment. The Wireless Protected Access (WPA-PSK/WPA2-PSK) and Wireless Encryption Protocol (WEP) features enhance the level of data protection and access control via a Wireless LAN.

### SOHO Firewall Security
Along with the built-in NAT natural firewall feature, the router's advanced anti-hacker pattern-filtering protection feature automatically detects and blocks Denial of Service (DoS) attacks. In addition to the NAT technology, the BiPAC 5200G supports Packet Filtering for high-level security control.

### Easy Network Management
The Web-based User Interface makes the BiPAC 5200G extremely easy for users to install and manage the network. The router supports DHCP client and server, enabling system administrators to easily fit this security router into existing network environment and manage the IP assignment without re-configuring other stations. Furthermore, future firmware upgrade can be downloaded via the user-friendly Web-based Interface.

**Powering** communications with **Security**

# Features & Specifications

## ADSL Compliance
- Compliant with ADSL Standard
  - Full-rate ANSI T1.413 Issue 2
  - G.dmt (ITU G.992.1)
  - G.lite (ITU G.992.2)
  - G.hs (ITU G.994.1)
  - ADSL over ISDN/U-R2
- Compliant with ADSL2 Standard
  - G.dmt.bis (ITU G.992.3)
  - ADSL2 Annex M (ITU G.992.3 Annex M) (Available for BiPAC 5200GA model only)
- Compliant with ADSL2+ Standard
  - G.dmt.bisplus (ITU G.992.5)
  - ADSL2+ Annex M (ITU G.992.5 Annex M) (Available for BiPAC 5200GA model only)

## Network Protocols and Features
- NAT, static routing and RIP-1/2
- NAT supports PAT and multimedia applications
- Multi-to-multi NAT
- Transparent Bridging
- Dynamic Domain Name System (DDNS)
- SNTP
- DNS relay

## Firewall & Virtual Private Network (VPN)
- Built-in NAT Firewall
- Prevent DoS attacks including Land Attack, Ping of Death, etc.
- Anti probe function
- Packet filtering
- Password protection for system management
- VPN pass-through

## Operating Environment
- Operating temperature: 0 ~ 40 ℃
- Storage temperature: -20 ~ 70 ℃
- Humidity: 20 ~ 95% non-condensing

## Application Diagram



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

## ATM and PPP Protocols
- ATM Adaptation Layer Type 5 (AAL5)
- Multiple Protocol over AAL5 (RFC 2684, formerly RFC 1483)
- Bridged or routed Ethernet encapsulation
- VC and LLC based multiplexing
- PPP over Ethernet (PPPoE)
- PPP over ATM (RFC 2364)
- OAM F4/F5
- ATM QoS: UBR, CBR, VBR-rt, VBR-nrt

## Management
- Web-based configuration
- Firmware upgrade and configuration data upload and download via HTTP/FTP
- SNMP v2 MIB supported
- Supports DHCP server/client/relay

## Hardware Specification
### Physical Interface
- WLAN: fixed Antenna
- LINE: ADSL port
- LAN: 4-port 10/100M auto-crossover (MDI/MDI-X) switch
- Factory default reset button
- Power jack
- Power switch

### Physical Specification
- Dimensions: 7.09" x 4.72" x 1.57" (180mm x 120mm x 40mm)

### Power Requirement
- Input: 12V DC, 1A

## Models & Standards Support
- BiPAC 5200GA: Annex A & Annex M
- BiPAC 5200GB: Annex B
- BiPAC 5200GU: U-R2
- Annex A and Annex M: ADSL over POTS
- Annex B and Annex U-R2: ADSL over ISDN

Note:
1. The router may require firmware modification for certain ADSL2/2+/ Annex M DSLAMs
2. Specifications in this datasheet are subject to change without prior notice.

V.060906

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