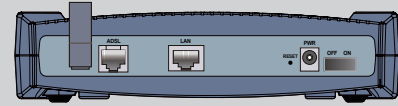




▲ BiPAC 5200SG RA



▲ BiPAC 5210SG RA



▲ BiPAC 5200SG RA Rear Panel



▲ BiPAC 5210SG RA Rear Panel

BiPAC 5200SG RA Series

802.11g Single Ethernet (USB port) ADSL2+ Firewall Router

Billion's BiPAC 5200SG RA Series is an easy-to-use yet economical ADSL2+ router perfectly designed for home and SOHO users to enjoy mobility, rich firewall security, and faster speed Internet connection. With one Ethernet port and the extra USB interface, the BiPAC 5210SG RA can connect directly to two computers or more by using a switching hub. The router lets you share high-speed ADSL Internet connection, even faster with advanced ADSL2+ capability of downstream rate up to 24Mbps. With an integrated 802.11g Wireless Access Point, the router enables you to surf the Internet anywhere in your home. Powerful SOHO Firewall features are integrated to protect against hacker attacks while accessing the Internet. Universal Plug-and-Play compliance and the Web-based user interface make network management easy. The BiPAC 5200SG RA Series makes fast wireless net surfing affordable and easy - Going online is just 'plug & play'.

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 5200SG RA Series 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 Wired Equivalent Privacy (WEP) features enhance the level of data protection and access control via a Wireless LAN.

Dual Flexibility (BiPAC 5210SG RA)

The BiPAC 5210SG RA integrates both USB and Ethernet LAN interfaces into one box. The router lets users connect their computers via either USB or Ethernet, or both at the same time, to access the Internet. Users can easily share their Internet connection and multimedia applications with other users. Just Plug-and-Play and experience the flexibility of 10/100 LAN and USB at the same time.

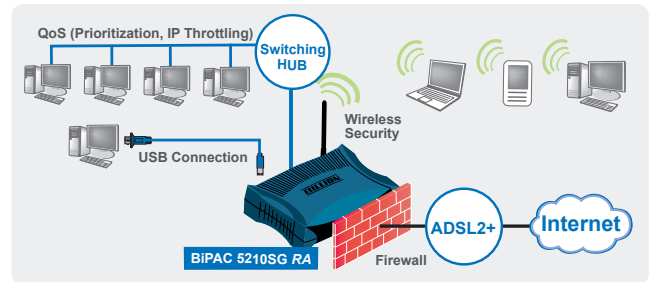
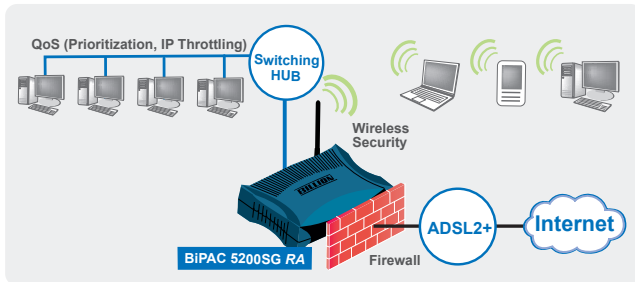
SOHO Firewall Security

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 5200SG RA Series supports Packet Filtering for high-level security control.

Easy Network Management

The Web-based User Interface makes the BiPAC 5200SG RA Series 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 reconfiguring other stations. Furthermore, future firmware upgrade can be downloaded via the user-friendly Web-based Interface.

- 802.11g Wireless Access Point with WPA-PSK/WPA2-PSK support
- High speed Internet access with ADSL2/2+; backward compatible with ADSL
- Integrated with one USB port and single-port Ethernet Switch (BiPAC 5210SG RA)
- 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
- Easy Network Management
- Ideal for Home and SOHO Users



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)
- Compliant with ADSL2+ Standard
 - G.dmt.bis plus (ITU G.992.5)
 - ADSL2+ Annex M (ITU G.992.5 Annex M)

Network Protocols and Features

- NAT, static routing and RIP-1/2
- Multi-to-multi NAT
- Transparent Bridging
- Dynamic Domain Name System (DDNS)
- SNTP
- DNS relay

Firewall & Virtual Private Network (VPN)

- Built-in NAT Firewall
- Prevents DoS attacks including Land Attack, Ping of Death, etc.
- Anti probe function
- Packet filtering
- Password protection for system management
- VPN pass-through

Wireless LAN

- Compliant with IEEE 802.11g and 802.11b standards
- 2.4 GHz - 2.484 GHz frequency range
- Up to 54 Mbps wireless operation rate
- 64/128-bit 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 upgrades and configuration data upload and download via HTTP/FTP
- SNMP v2 MIB supported
- Supports DHCP server/client/relay
- Supports TR-069

Operating Environment

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

Hardware Specifications

Physical Interface

- WLAN: fixed antenna
- USB: Comply to USB v1.1 (Available for BiPAC 5210SG RA only)
- LINE: ADSL port
- LAN: single-port 10/100M auto-crossover (MDI/MDI-X) switch
- Factory default reset button
- Power jack
- Power switch

Physical Specifications

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

Power Requirements

- Input: 12V AC, 1A

** 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.