

**BILLION**™

▲ BiPAC 5210S RC Front Panel



▲ BiPAC 5210S RC Rear Panel

## BiPAC 5210S RC

### Dual-Port ADSL2+ Modem/Router

Billion's BiPAC 5210S RC is an easy-to-use yet economical pack of ADSL2+ Modem/Router with one Ethernet port and one USB port. It complies with the latest ADSL industry standards, ADSL2 and ADSL2+, for high-speed Internet access. The BiPAC 5210S RC can connect directly to two computers, or more by using a switching hub, through USB and Ethernet ports, users can easily benefit from express speed and better data transmission via firmware upgrades to ADSL2 / ADSL2+\*. Powerful SOHO Firewall features are integrated to protect users from hacker attacks and ensures high-level security with VPN pass-through. In addition, Universal Plug-and-Play compliance and the Web-based user interface make network management easy. The BiPAC 5210S RC is truly a value-for-money model designed for home and SOHO Users.

#### Express Internet Access

The 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. Particularly, the Annex A+M model also supports the latest ADSL2/2+ for higher upload speeds by doubling the upstream data rate.

#### SOHO Firewall Security

Along with the built-in NAT 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 5210S RC supports Packet Filtering for high-level security control.

#### Easy Network Management

The Web-based User Interface makes the BiPAC 5210S RC extremely easy for users to install and manage the network. The router supports DHCP client and server, enabling system administrators to easily fit this router into existing network environment and manage the IP assignment without re-configuring other stations. Furthermore, future firmware upgrades can be downloaded via the user-friendly Web-based Interface.

#### Dual Flexibility

The BiPAC 5210S RC integrates both USB and Ethernet LAN interface into one box. Whenever you like, BiPAC 5210S RC lets you connect your computer by either USB cable or Ethernet port to access the Internet. You can easily share your Internet connection and multimedia applications with other users. Just "plug and play" and experience dual-flexibility of 10/100 Ethernet and USB at the same time.

- High speed Internet access with ADSL2/2+; backward compatible to ADSL
- Integrated with USB and 10/100 Ethernet Interface
- Easy Network Management
- SOHO Firewall Security with DoS Prevention and Packet Filtering
- Universal Plug and Play (UPnP) Compliance
- Dynamic Domain Name System (DDNS)
- Supports Virtual Private Network (VPN) pass-through
- 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)  
(Available for BiPAC 5210S RCA model only)
- Compliant with ADSL2+ Standard
  - G.dmt.bis plus (ITU G.992.5)
  - ADSL2+ Annex M (ITU G.992.5 Annex M)  
(Available for BiPAC 5210S RCA model only)

### Network Protocols and Features

- NAT, static routing and RIP-1 / 2
- Multi-to-multi NAT
- Transparent Bridging
- Dynamic Domain Name System (DDNS)
- SNTP
- DNS client/relay
- USB driver support: Windows 98SE/ME/XP/2K/Vista 32/64 bit

### 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°C
- Storage temperature: -20 - 70°C
- Humidity: 20 - 95% non-condensing

### 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
- TR-069 supports remote management

### Hardware Specifications

#### Physical Interface

- DSL: ADSL port
- USB: Comply to USB v1.1
- Ethernet: single Ethernet 10/100M auto-crossover (MDI/MDI-X) switch
- Factory default reset button
- Power jack
- Power switch

#### Physical Specifications

- Dimensions: 5.53" x 3.56" x 1.38"  
(140.5mm x 90.5mm x 35mm)

#### Power Requirements

- Input: 12V AC, 1A

### Models & Standards Supported

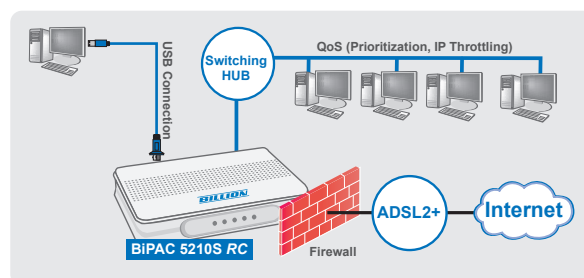
#### Product Models

- BiPAC 5210S RC:  
Dual-Port ADSL2+ Modem/Router

#### Standards

- BiPAC 5210S RCA:  
Supports Annex A and Annex M  
(Annex A and Annex M: ADSL over POTS)
- BiPAC 5210S RCU:  
Supports Annex B and U-R2  
(Annex B and U-R2: ADSL over ISDN)

### ▼ Application Diagram



• The router may require firmware modification for certain ADSL2/2+ DSLAMs.  
• Specifications are subject to changes without notice.