

BiPAC 5210S

Dual-Port ADSL2+ Modem/Router

Billion's BiPAC 5210S with one Ethernet port and one USB port is an easy-to-use yet economical ADSL router that complies with the latest ADSL industry standards: ADSL2 and ADSL2+, for high-speed Internet access. The 5210S router 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 performance via firmware upgrade to ADSL2 / ADSL2+^{NOTE}. 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 5210S is truly a value-for-money model designed for home and SOHO Users.

▲ **BiPAC 5210S**

- High-speed Internet access with ADSL2/2+; backward compatible with ADSL
- Integrated USB and 10/100Mbps LAN interfaces
- 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

Benefits

Express Internet Access

The router complies with worldwide ADSL standards. It supports downstream rate up to 12/24Mbps with ADSL2/2+, 8Mbps with ADSL and upstream rate up to 1Mbps. Users can enjoy high-speed ADSL services and broadband multimedia applications such as interactive gaming, video streaming and real-time audio much more easily and faster than before. In particular, by doubling the upstream data rate, the Annex M standard included in the BiPAC 5210SA model supports the latest ADSL2/2+ for higher upload speeds.

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 5210S supports Packet Filtering for high-level security control.

Easy Network Management

The Web-based user interface makes the BiPAC 5210S 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 an existing network environment and manage the IP assignment without re-configuring other stations. Furthermore, future firmware upgrades can be done via a friendly Web-based user interface.

Dual Flexibility

The BiPAC 5210S integrates both USB and Ethernet LAN interfaces into one box. The BiPAC 5210S 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.



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 5210SA only)
- Compliant with ADSL2+ Standard
 - G.dmt.bisplus (ITU G.992.5)
 - ADSL2+ Annex M (ITU G.992.5 Annex M)
(Available for BiPAC 5210SA 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
- Prevents DoS attacks including Land Attack, Ping of Death, etc.
- Anti probe function
- Packet filtering
- Password protection for system management
- VPN pass-through

Management

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



▲ Application Diagram

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

Operating Environment

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

Hardware Specifications

Physical Interface

- LINE: ADSL port
- USB: Complies with USB v1.1
- LAN: 10/100Mbps auto-crossover (MDI/MDI-X) switch
- Factory default reset button
- Power jack
- Power switch

Physical Specifications

- Dimensions: 5.20" x 3.70" x 1.38"
(132mm x 94mm x 35mm)

Power Requirements

- Input: 12VAC, 1A

Models & Standards Supported

- BiPAC 5210SA: Support Annex A and Annex M
- BiPAC 5210SU: Support U-R2 and Annex B
- 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.