

BiPAC 5102G



802.11g ADSL2+ Router

Billion's BiPAC 5102G is an economical model of router designed with 802.11g Wireless AP for home users to enjoy high-speed broadband access. It provides high speed Internet access with ADSL, even faster with ADSL2+ standard for downstream speed up to 24Mbps. NAT Firewall and Packet Filtering features help protect every data transmission against hackers' attack. Its network management is easy with Graphic User Interface. BiPAC 5102G makes fast net-surfing affordable and easy to go online, just 'plug & play'.



▲ BiPAC 5102G

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

Benefits

Express Internet Access

The BiPAC 5102G complies with ADSL worldwide standards. It supports basic downstream rate of 8Mbps with ADSL, capable of up to 12/24 Mbps with ADSL2 / ADSL2+, and upstream rate up to 1 Mbps. Users enjoy not only high-speed ADSL services but also wider range of broadband multimedia applications such as interactive gaming, video streaming and real-time audio much easier and faster than ever.

Security

Powered by NAT technology integrated in BiPAC 5102G, dozens of users not only surf Internet and share the ADSL connection simultaneously by using one ISP account and one IP address, but are also protected by natural NAT firewall from potential hacker attacks. In addition to NAT technology, the BiPAC 5102G supports Packet Filtering feature for higher-level security control.

Easy Network Management

The Web-based User Interface makes the BiPAC 5102G extremely easy for users to install and manage the network. With DHCP client and server built-in, system administrators can easily attach this security router into existing network and manage the IP assignment without re-configuring other stations. Furthermore, future firmware upgrade can be done via friendly Web-based User Interface.

Mobility

With integrated 802.11g Wireless Access Point in the BiPAC 5102G, the device offers quick and easy access among wired network, wireless network and broadband connection (ADSL) with single device simplicity. In addition to providing 54 Mbps 802.11g link rate, it can also interoperate backward with existing 802.11b equipments. The wireless connection makes a home user to enjoy the mobility to place a PC device anywhere they want to go online.

Feature & Specification

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)
- Compliant with ADSL2+ Standard
 - G.dmt.bisplus (ITU G.992.5)

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
- 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

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

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

Management

- Web-based configuration
- Firmware upgraded and configuration data upload and download via HTTP/FTP
- Embedded Telnet server for remote and local management
- SNMP v2 MIB supported
- Support DHCP server/client/relay

Hardware Specification

Physical Interface

- WLAN: fixed antenna
- LINE: ADSL port
- LAN: 4port 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

Specifications are subject to changes without notice.

- ⊙ The router may require firmware modification for certain ADSL2/2+ DSLAMS.

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