

**BiPAC 5102(S)**

Billion's BiPAC 5102(S) is an easy-to-use ADSL yet economical pack of router deploying latest ADSL industry standards, ADSL2 and ADSL2+, for Internet access. By plugging a computer to BiPAC 5102(S), users can benefit express speed and better data transmission performance supported by firmware upgrade to ADSL2 / ADSL2+\*. Powerful SOHO Firewall protects against hackers attack when browsing in Internet while VPN pass through is also supported for secure access. Universal Plug and Play compliance and Web-based user interface makes BiPAC 5102(S) network management easy to users. Truly BiPAC 5102(S) is perfectly designed for home and SOHO Users.



- High speed Internet access with ADSL2/2+; backward compatible to ADSL
- Easy Network Management
- Integrated with 4-port Ethernet Switch (BiPAC 5102), Single Ethernet Port (BiPAC 5102S)
- 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 Home and SOHO Users

**Express Internet Access**

The BiPAC 5102/5102S complies with ADSL worldwide standards. It supports basic downstream rate of 8Mbps with ADSL, capable 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.

**SOHO Firewall Security**

Powered by NAT technology integrated in BiPAC 5102/5102S, 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 5102/5102S supports Packet Filtering feature for higher-level security control.

**Easy Network Management**

The Web-based User Interface makes the BiPAC 5102/5102S 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.

## Feature & Specification

### ADSL Compliance

- Compliant with ADSL Standards
  - 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



▲ BiPAC 5102S 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

### Management

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

### Hardware Specification

#### Physical Interface

- LINE: ADSL port
- LAN: 4port 10/100M auto-crossover (MDI/MDI-X) switch (Single port for 5102S)
- Factory default reset button
- Power jack

#### Physical Specification

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

#### Power Requirement

- (5102) Input: 12V DC, 1A
- (5102S) Input: 9V AC, 1A



( ADSL2/2+ )

▲ BiPAC 5102 Diagram

Specifications are subject to changes without notice.

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