

BiPAC 7300GX



802.11g ADSL2+ Firewall Router with 3G/HSDPA

Billion's BiPAC 7300GX is an all-in-one compact device of ADSL2+ router perfectly designed for home and SOHO users to enjoy the mobility and faster speed when using ADSL Internet connection. It provides a Cardbus slot for inserting 3G/HSDPA PC Card to access HSDPA, UMTS, EDGE, GPRS or GSM networks. The device lets you access high-speed ADSL Internet connection, even faster with advanced ADSL2+ capability with downstream rate up to 24Mbps. Rich Firewall security features such as SPI, DoS attack prevention, and URL Content Filtering are integrated to provide users unparalleled protection from hackers' attack.

- High speed Internet access with ADSL2/2+; backward compatible to ADSL
- Includes Cardbus slot for inserting 3G/HSDPA PC card *
- 802.11g Wireless AP with WPA-PSK/WPA2-PSK Support
- SOHO Firewall Security with DoS Prevention and SPI
- Ideal for Home and Office Users



Data Card sold separately

Benefits

Express Internet Access

The router complies with ADSL worldwide standards. It supports downstream rate up to 12/24 Mbps with ADSL2/2+, 8Mbps with ADSL and upstream rate up to 1 Mbps. With this technology, users enjoy not only high-speed ADSL services but also broadband multimedia applications such as interactive gaming, video streaming and real-time audio much easier and faster than ever. Particularly, Annex M standard combined in the model of BiPAC 7300GXA supports the latest ADSL2/2+ for higher upload speeds by doubling the upstream data rate.

HSDPA/UMTS Mobility

The BiPAC 7300GX router will come equipped with a Cardbus slot for inserting 3G/HSDPA PC card. And the key features of 3G/HSDPA systems are a high degree of commonality of design worldwide, compatibility of services, use of small pocket terminals. It will offer subscribers of wireless carriers the ability to share 3G/HSDPA wireless broadband access, and a compatible 3G/HSDPA mobile signal is available for 802.11g connected stations from anywhere.

Wireless Mobility

With integrated 802.11g Wireless Access Point in the router, the device offers a quick yet easy access and mobility to the users among wired network, wireless network, broadband connection (ADSL). In addition to 54 Mbps 802.11g data rate, it is also backward compatible with existing 802.11b equipments. The Wireless Protected Access (WPA-PSK/WPA2-PSK) and Wireless Encryption Protocol (WEP) features enhance the security level of data protection and access control via Wireless LAN. If your network requires wider coverage, the built-in Wireless Distribution System (WDS) repeater function allows you to expand the wireless network without using wires at all.

*Remark: 3G/HSDPA cards suitable for list

3G Cards	Provider	Manufacture
GlobeTrotter GT Max E		Option
web`n`walk card compact	T-Mobile	Option
GlobeTrotter HSPDA		Option
Mobile DSL 1800	T-Mobile	Option
Vodafone Mobile Connect	Vodafone	Novatel
Merlin U740		Novatel



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)
 - ADSL2 Annex M (ITU G.992.3 Annex M) (Available for BiPAC 7300GXA model only)
- Compliant with ADSL2+ Standard
 - G.dmt.bisplus (ITU G.992.5)
 - ADSL2+ Annex M (ITU G.992.5 Annex M) (Available for BiPAC 7300GXA model only)

Network Protocols and Features

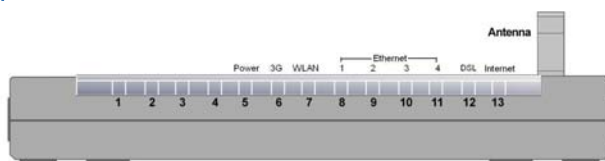
- NAT, static routing and RIP-1/2
- Universal Plug and Play (UPnP) Compliant
- Dynamic Domain Name System (DDNS)
- Virtual Server and DMZ
- SNTP, DNS relay and IGMP proxy

Firewall & Virtual Private Network (VPN)

- Built-in NAT Firewall
- Stateful Packet Inspection (SPI)
- Prevent DoS attacks including IP Spoofing, Land Attack, Smurf Attack, Ping of Death, TCP SYN Flooding, etc.
- Packet Filtering – port, source IP address, destination IP address, MAC address
- URL Content Filtering – string or domain name
- Password protection for system management
- VPN pass-through

Management

- Quick Installation Wizard and Auto-scan ADSL settings
- Web-based GUI for remote and local management
- Firmware upgrade and configuration data upload and download via Web-based GUI
- Embedded Telnet server for remote and local management
- Available Syslog monitoring
- Support DHCP server/client/relay



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)

Wireless 802.11g

- 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 bits WEP supported for encryption
- Wireless Security with WPA-PSK/WPA2-PSK support
- WDS repeater function support

Quality of Service Control

- Support DiffServ approach
- Traffic prioritization and bandwidth management based-on IP protocol, port number and address

Operating Environment

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

Hardware Specification

Physical Interface

- LINE: ADSL Port
- LAN: 4-port 10/100Mbps auto MDI/MDI-X Switch
- 3G/HSDPA Cardbus Slot
- Factory default reset button
- Power jack
- Power switch

Physical Specification

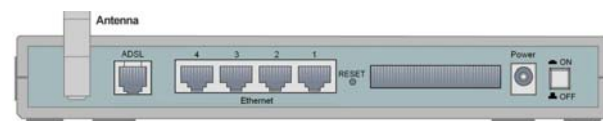
- Dimensions: 8.27" x 5.83" x 1.42" (210mm x 148mm x 36mm)

Power Requirement

- Input: 12V DC, 1A

Models & Standards Support

- BiPAC 7300GXA: Support Annex A and Annex M
- BiPAC 7300GXU: Support U-R2 and Annex B
- Annex A and Annex M: ADSL over POTS
- Annex B and Annex U-R2: ADSL over ISDN



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*Note:

1. The router may require firmware modification for certain ADSL2/2+ Annex M DSLAMs.
2. 3G/HSDPA datarate is depend on your local service provider and ability of your 3G/HSDPA card
3. Specifications in this datasheet are subject to changes without notice.