

Ultimate 3G Mobility**Lightning Speed****Wide Coverage****High Flexibility**

3G Wireless-N ADSL2+ Firewall Router

Ultimate wireless networking on-the-move with high speed and wide coverage!

Complying with worldwide ADSL standards, the BiPAC 7300NX supports downstream data transmission rates up to 12 / 24 Mbps with ADSL2 / 2+, 8 Mbps with ADSL, and performs at upstream rates of up to 1 Mbps. The BiPAC 7300NX includes Annex M technology that supports the latest ADSL2 / 2+ standard for higher upload speeds by increasing the upstream operation rate to approximately 2.5Mbps (up to 3Mbps under ideal conditions). Using the integrated USB 2.0 ports, the device allows you to share a blistering wired or 3G-based wireless Internet connection with multiple computers or laptops. With the Billion BiPAC7300NX, you can easily download photos, stream High Definition (HD) video files, run media-intensive applications, watch movies or share files with your clients, team members, friends or family. The router can even function as a FTP server for network device sharing.

Ultimate 3G Mobility and Flexibility

BiPAC 7300NX offers its USB port for connecting to a 3G / HSDPA USB modem, enabling you to use a 3G / HSDPA, UMTS, EDGE, GPRS, or GSM Internet connection, which makes downstream rates of up to 14.4 Mbps possible. Aiming for convenient and constant internet access for event or meeting organizers - allowing you to watch movies, download music on the road, access e-mail no matter where you are, and share files with your colleagues or friends, or even download FTP or files when you are mobile. The auto fail-over feature ensures maximum connectivity and minimum interruption by quickly and smoothly connecting to a 3G network in the event once your ADSL line fails. This feature allows 7300NX automatically reconnect to the ADSL connection when it's restored, reducing connection costs. BiPAC 7300NX lets you surf Internet anytime and anywhere.

Lightning Wireless Speed and Wide Coverage

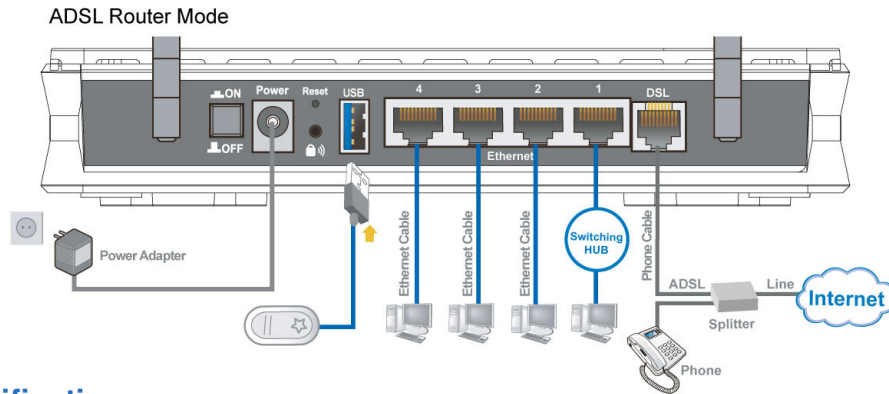
BiPAC 7300NX is specially design for home and SOHO users that rely on constant and reliable Internet connection. With a integrated Wireless-N Access Point that supports up to 300Mbps wireless operation rate, the BiPAC 7300NX is truly an enhanced Wireless LAN solution. Users can enjoy high-speed access for broadband multimedia applications such as interactive gaming, video streaming and real-time audios that run faster and easier than ever.

Concern-free Access Security

It also features the latest standards of wireless security so the network remains free from unwanted users. Wi-Fi Protected Access (WPA-PSK / WPA2-PSK) and Wired Equivalent Privacy (WEP) features enhance the level of transmission security and access control over your Wireless LAN. The NAT default firewall has an advanced anti-hacker pattern-filtering protection features that can automatically detect and block Denial of Service (DoS) attacks. In addition, Packet Filtering provides high-level security for access control. Built with Stateful Packet Inspection (SPI), the router enables users to determine whether a data packet is allowed to pass through the firewall to the private LAN.

**Ideal for
Home and
SOHO users**

- Dual-WAN approach – ADSL2+ and 3G connections
- USB 2.0 port for plugging a 3G / HSDPA modem as backup (available from your service provider)
- Storage feature through USB 2.0 port: FTP server, samba server
- 1x USB 2.0 port for multiple functions: 3G network, FTP server, and samba server.
- Auto fail-over feature to ensure an always-on connection
- High-speed wireless connection up to 300Mbps
- 802.11n Wireless Access Point with Wi-Fi Protected Setup (WPS), Wi-Fi Protected Access (WPA-PSK / WPA2-PSK) and Wired Equivalent Privacy (WEP) support
- Wireless on/off time schedule control
- High speed Internet access with ADSL2 / 2+; also compatible with ADSL
- Integrated with 4-port Ethernet switch
- SOHO firewall security with DoS prevention and SPI
- Universal Plug and Play (UPnP) compliant
- Supports Virtual Private Network (VPN) pass-through
- Quality of Service control
- Dynamic Domain Name System (DDNS)
- Easy Sign-ON (EZSO)
- Supports IPTV application*5



Features & Specifications

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 standards
 - G.dmt.bis (ITU G.992.3)
 - ADSL2 Annex M (ITU G.992.3 Annex M) (available for BiPAC 7300NXA model only)
- Compliant with ADSL2+ standards
 - G.dmt.bis plus (ITU G.992.5)
 - ADSL2+ Annex M (ITU G.992.5 Annex M) (available with BiPAC 7300NXA model only)

Network Protocols and Features

- NAT, static routing and RIP-1 / 2
- Universal Plug and Play (UPnP) compliant
- Transparent bridging
- Dynamic Domain Name System (DDNS)
- Virtual Server and DMZ
- SNTP, DNS relay and IGMP proxy
- IGMP snooping for video service
- Management based-on IP protocol, port number and address
- SMTP client

Firewall & Virtual Private Network (VPN)

- Built-in NAT firewall
- Stateful Packet Inspection (SPI)
- Prevents DoS attacks including Land Attack and Ping of Death, etc.
- Remote access control for web base access
- Anti probe function
- Packet filtering, MAC filtering, URL content filtering
- Password protection for system management
- VPN pass-through

Quality of Service Control

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

IPTV Applications^{*5}

- GMP Snooping
- Virtual LAN (VLAN)
- Quality of Services (QoS)
- IGMP snooping & IGMP proxy

Wireless LAN

- Compatible with IEEE 802.11n, 802.11g and 802.11b standards.
- Up to 300Mbps wireless operation rate^{*2}
- 2.4 GHz–2.484 GHz frequency range
- WPS (Wi-Fi Protected Setup) for easy setup.
- 64 / 128 bits WEP supported for encryption
- Wireless Security with WPA-PSK / WPA2-PSK support
- 802.1x radius supported
- WDS repeater function support
- WLAN on/off time schedule control

USB Application Server

- 3G network sharing
- Storage: FTP server, samba server

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)
- MAC Encapsulated Routing (RFC 1483 MER)
- OAM F4 / F5

Management

- Easy Sign-ON (EZSO) and Auto-scan ADSL settings
- Web-based GUI for remote and local management
- Firmware upgrades and configuration data transfer via web-based interface
- Embedded Telnet server for remote and local management
- TR-069^{*4} supports remote Management
- Available syslog
- Supports DHCP server / client / relay
- SNMP v1 / v2 / v3, MIB supported

- Wake on LAN

- Mail alert for WAN IP changed, IDS, failover / failback management

Hardware Specifications

Physical Interface

- DSL: ADSL port
- Ethernet: 4-port 10/100M auto-crossover (MDI / MDI-X) switch
- USB 2.0 supports 3G / HSDPA modem backup
- Factory default reset button
- WPS push button
- Power jack
- Power switch
- WLAN: 2 antennas

Physical Specifications

- Dimensions: 7.28" x 4.86" x 1.42" (185mm x 123.5mm x 36mm)

Power Requirements

- Input: 12V DC, 1.2A

Operating Environment

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

Compatible 3G USB modems^{*3}

3G Brand	3G Model
ONDA	MF628, MF638, MDC525UP, MO825UP, MF622, MDC502HS
Option	ICON225
NOVATEL	MC950D
Zoom	4595
Vodafone	K3520-Z
Huawei	E270, E220
Sierra	Aircard 880U, 875U, 888
Quanta	GKXQCX

This list is continuously updated at <http://www.billion.com/compatible-3G.html>

Notes:

1. This router may require firmware modification for certain ADSL2 / 2+ / Annex M DSLAMs.
2. Actual throughput and performance depends on the environment. Normally, the wireless speed is faster if you are closer to the router. The farther from the router you are, the more wireless range, and the speed will be slower.
3. The 3G / HSDPA data rate depends on your local service provider and your 3G / HSDPA modem.
4. By request of the Telco / ISP projects
5. IPTV application may require subscribing to IPTV services from a Telco / ISP

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