

Extreme Mobility**Wide Coverage****High Flexibility****Plug and Play**

Wireless-N 300 Mbps ADSL2+ Router

An All-in-one Wireless-N solution delivers smooth and flexible Internet connection!

Super-fast Wired / Wireless Connection

The BiPAC 7300N RE gives instant connectivity with or without wires. Complying with worldwide ADSL standards, the BiPAC 7300N RE 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 7300N RE 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). With a Wireless-N Access Point that supports up to 300Mbps wireless operation rate, the BiPAC 7300N RE is truly an enhanced Wireless LAN solution. With all these technologies, 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.

Surfing Internet with Flexibility

Among 4 Ethernet ports, port 1 can be configured as a WAN port for connecting to ADSL, Cable, VDSL or a Fiber modem device, providing more options for users to access the Internet. So SOHO or small office users can even deploy the BiPAC 7300N RE for FTTx (Fiber-to-the-building, node, or home) applications over a VDSL or Fiber device connection.

State-of-the-art Security

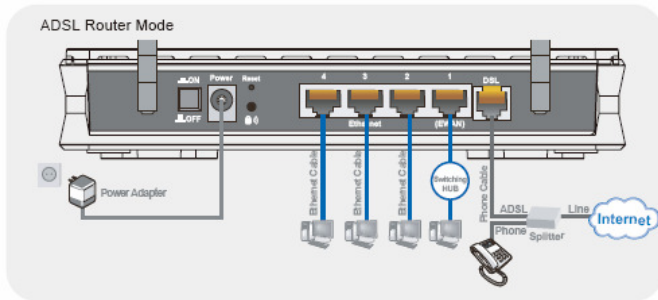
It also features the latest stands of wireless security so the network remains free from unwanted users. Wi-Fi Protected Access (WPA-PSK / WPA2-PSK) and Wired Equivalent Privacy (WEP) features enhance the level of transmission security and access control over your Wireless LAN. The NAT default firewall 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.

Easy Setup and Management

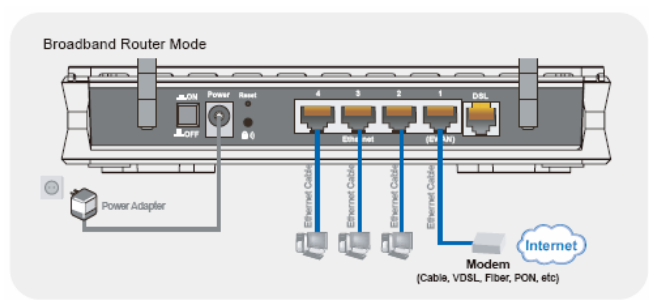
Easy Sign-ON (EZSO), WPS push button and Auto-scan ADSL settings allow users to manage the device functions with minimum effort. The user-friendly, web-based user interface makes installing and managing the BiPAC 7300N RE extremely easy. With support for both DHCP client and server, system administrators can manage IP assignment without having to reconfigure other stations and fitting the router into existing network environments.

**Ideal for
Residential users**

- Dual-WAN approach - ADSL2+ or Ethernet WAN for Broadband Connectivity
- 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, one port can be configured to WAN port for connecting to ADSL/Cable/VDSL/ Fiber modem device
- 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^{*4}



ADSL Router Mode



Broadband Router Mode

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 7300N **RE** 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 7300N **RE** 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 Applications⁴

- GMP Snooping
 - Virtual LAN (VLAN)
 - Quality of Services (QoS)
 - IGMP Snooping & IGMP Proxy
- ### Wireless LAN
- Compatible with IEEE 802.11n, 802.11g, 802.11b standards.
 - Up to 300Mbps wireless operation rate²
 - 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

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-069³ 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 management

Hardware Specifications

- DSL: ADSL port
 - EWAN: Ethernet port #1 can be configured to WAN port for connecting to ADSL/ Cable/ VDSL/ Fiber modem device
 - Ethernet: 4-port 10/100M auto-crossover (MDI/MDI-X) switch
 - 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, 1A

Models & Supported Standards

- BiPAC 7300N **RE**: Supports Annex A and Annex M
 - BiPAC 7300N **RE**: Supports Annex B and U-R2
 - Annex A and Annex M: ADSL over POTS
 - Annex B and U-R2: ADSL over ISDN
- ### Operating Environment
- Operating temperature: 0°C - 40°C
 - Storage temperature: -20°C - 70°C
 - Humidity: 20% - 95% non-condensing

Notes:

1. This router may require firmware modification for certain ADSL2+/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. By request of the Telco/ ISP projects
4. IPTV application may require subscribing to IPTV services from a Telco/ ISP

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