

## BiPAC 2073N

# Wireless-N HomePlug AV 200 Wall Plug Ethernet Adapter

### Extend your wireless coverage through power lines

Compliant with the latest HomePlug AV standards, which support data speeds of up to 200Mbps, the BiPAC 2073N can be used to bridge Ethernet devices such as modems, routers, PCs, set-top-boxes, and game consoles, allowing users to share network access via existing in-home power cabling. What's unique is that the device has an extra built-in 802.11n Access Point, enabling users to enjoy mobility, high-speed wireless connection and better coverage with no more dead zones. Just plug the BiPAC 2073N into any wall power socket, and you can easily set up a secure wireless network by pressing the Wi-Fi Protected Setup (WPS) button. Thus, the adapter can extend your wireless coverage through power lines for multimedia applications such as online games, IPTV and audio streaming from room to room.

### No sweat to set up an in-home network

The BiPAC 2073N does not require the time and money needed to install expensive Ethernet cables throughout your house in order to share your home network. Nor does it require any drilling. Just one touch of the "Sync" button to install the bridge utility and your high-speed network is ready. It's as easy as simply plugging in your networking devices and using the electrical wiring in your home.

### Extended Wireless Coverage

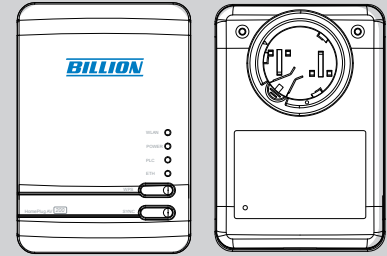
With an integrated Draft-802.11n Wireless Access Point, the adapter can bridge wireless connections of up to 6 times the speed and 3 times the wireless coverage of an 802.11b / g network device. It supports a data rates up to 300Mbps and is also compatible with 802.11b / g equipment. The Wireless Protected Access (WPA-PSK / WPA2-PSK) and Wireless Encryption Protocol (WEP) features enhance the level of transmission security and access control over Wireless LAN. The device also supports the Wi-Fi Protected Setup (WPS) standard, allowing users to establish a secure wireless network by simply pushing a button.

### Smooth traffic and prioritization

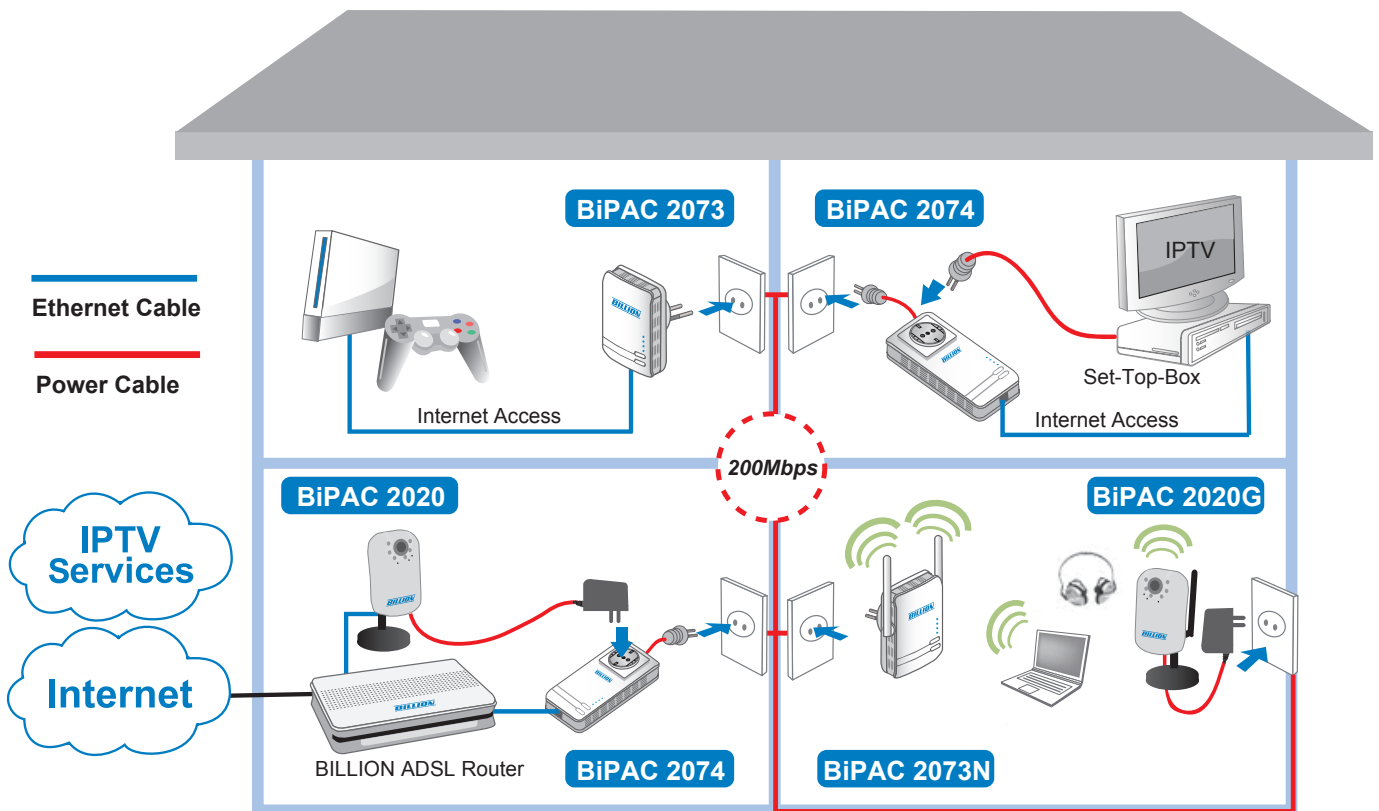
Quality of Service control guarantees the transmission quality by automatically prioritizing data. The BiPAC 2073N automatically recognizes the bandwidth needs of voice and video applications. QoS prioritizes the data to guarantee optimal transmission quality. TV and video images are received and displayed with absolute smoothness. QoS also guarantees clear, instant transmission of voice data, even when other applications are running on the network at the same time. QoS makes your network a pleasure to use.

### Immune to noise and intervention

Unlike others, the device supports superior and noise-immune data transmission over in-home electrical power lines. Even at the moment your family turns on an electronic device or turns off a light, you won't experience any interruption to latency-sensitive applications such as multimedia or video being shared with your family in another room.



- Provides physical layer data rate of up to 200Mbps over existing in-home power lines
- Extended wireless coverage of up to 3 times the range of 802.11g products
- WPS (Wi-Fi Protected Setup) for easy setup
- Auto channel select
- Utilizes power line technology that takes advantage of the unused bandwidth of the electrical wiring in your home
- Utilizes Quality of Service control
- Supports Triple Play applications such as IPTV, VoIP and high-speed Internet access
- Supports 10/100 BaseT Ethernet
- Compliant with the HomePlug Powerline Alliance industry specifications
- Ideal for residential users



## Features & Specifications

### Protocols

- TDMA, CSMA/CA

### Standards

- Ethernet specifications: IEEE 802.3, IEEE 802.3x, IEEE 802.3u, Auto MDI/MDIX
- HomePlug AV compliant

### Transmission Speed

- 200Mbps max.

### Modulation

- Supports OFDM
- 1155 carriers, 1024/256/64/16/8 QAM, QPSK, BPSK and ROBO

### Frequency Range

- 2MHz ~ 30MHz

### Security

- 128-bit AES Link Encryption with key management for secure power line communications
- Encryption:
  - NMK (Network Membership Key) used to authenticate/access
  - Rotating NEK (Network Encryption Key)

### Supported Operating Systems

- Windows 98 / 98SE / Me / 2000 / XP / Vista
- Other 10/100 Base-T Ethernet devices

### Quality of Service Control

- Enhancements: contention-free access, four-level priority based contention access, and multi segment bursting
- ToS, CoS and IP Port Number Packet Classifiers
- Supports IGMP managed multicast sessions
- IGMP snooping with multicast to multiple unicast support in CSMA
- QoS classification for quasi-error-free delivery
  - VLAN priority field, ToS Field
- Enhanced IPv4/IGMPv1-3 snooping support
- Supports IPv6 and MLDv1-2 snooping

### Wireless LAN

- Compliant with IEEE 802.11n, 802.11g and 802.11b standards
- 2.4 GHz~2.484 GHz frequency range
- Auto channel select
- Up to 300Mbps wireless operation rate
- WPS (Wi-Fi Protected Setup) for easy setup
- 64/128 bits WEP supported for encryption
- Wireless Security with WPA-PSK/ WPA2-PSK support

### Power Supply Specifications

- Input: 100~240V AC, 50~60Hz
- Protection: OCP, OVP, SCP

### Hardware Specifications

#### Physical Interface

- AC power plug
- 2 fixed antennas
- WPS button
- Sync button
- Reset button
- RJ-45 compatible
- LED display:
  - WLAN
  - POWER
  - PLC
  - ETH

#### Physical Specifications

- Dimensions (W, D, H): 4.42" x 3.05" x 2.12" (112.4mm x 77.4mm x 53mm)

#### Operating Environment

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