

**Dual-band**
2.4GHz & 5GHz

BiPAC 3010ND

Dual-Band Wireless-N 300Mbps USB Adapter



Boost your home or office wireless network with high-speed dual-band!

The Billion BiPAC 3010ND is a dual band Wireless-N USB adaptor, supporting demanding applications such as streaming HD video, files sharing and multiplayer gaming. It supports up to 300Mbps upload and download data rate via 2.4GHz and 5GHz bands (selectable). Dual-band technology avoids interference, ensuring top speeds. The 3010ND is also backward compatible with Wireless-G networks, allowing for hassle-free connectivity and flexibility. It supports up to 6 times the data rate of an 802.11g network device. The 5GHz band allows you to take advantage of a far less congested band, unlike 2.4GHz band which is generally congested.

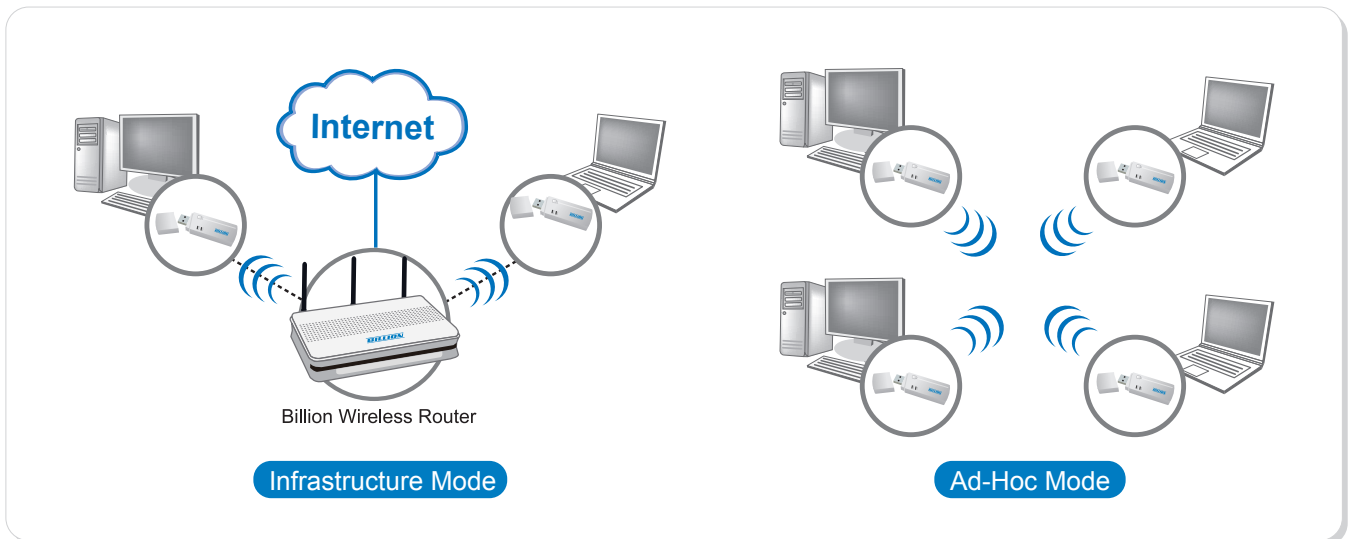
High Performance and Security

The BiPAC 3010ND supports both 64/128-bit WEP (Wired Equivalent Privacy) and Wi-Fi Protected Access (WPA/WPA2) for secure wireless LAN connections. It also supports WMM (Wi-Fi Multimedia) which ensures stability and performance for multimedia applications by prioritizing the traffic.

Ease of Use

The BiPAC 3010ND also includes a convenient utility for users to scan available networks and secure preferred networks. It supports two operating modes – infrastructure and ad-hoc mode. In the infrastructure mode, the BiPAC 3010ND allows you to connect via the Internet through a wireless AP to access network resources. It can also operate in Ad-Hoc mode without an AP, so that you can run peer-to-peer gaming and share files with your friends without the need for a wireless router. Ad-hoc networks also work well as a temporary fallback mechanism if access points or routers stop functioning.

- Compliant with IEEE 802.11 a/b/g/n (2.4GHz and 5GHz)
- Provides Wireless-N speed for streaming HD videos, simultaneous downloads, and online gaming, in addition to basic Internet applications. Backward compatible with Wireless-G
- Selectable 802.11a Dual-band for lag-free streaming and high performance networking
- Supports advanced 2 x 2 MIMO technology with up to 300Mbps downstream data rate
- Supports WEP, WPA, WPA2, and 802.1x for WLAN security
- Push WPS (Wi-Fi Protected Setup) connect offers a secured wireless Internet connection with your wireless network by simple setup
- Complies with IEEE 802.11h for spectrum and transmit power management
- Wi-Fi direct supports wireless peer to peer applications
- USB 2.0 high speed interface
- Universal Plug and Play (UPnP)
- Supports auto-installation and diagnostic utilities
- Supports Windows® 2000, XP, Vista 7, 8
- Ideal for home, SOHO and office users



Features & Specifications

Standards

- IEEE 802.11a/b/g/n (2.4GHz and 5GHz)
- IEEE 802.11h

Interface

- Compliant with USB 2.0 high-speed interface

Frequency Band

- 2.400GHz ~ 2.4835GHz and 5.150GHz ~ 5.850GHz

Modulations

- IEEE 802.11b: DSSS (CCK/DQPSK/DBPSK)
- IEEE 802.11a/g: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
- IEEE 802.11n: OFDM (64-QAM, 16-QAM, QPSK, BPSK)

Data Rates

- 802.11b: 11, 5.5, 2 and 1Mbps with auto-rate fall back
- 802.11a/g: 54, 48, 36, 24, 18, 12, 9 and 6Mbps
- 802.11n (20MHz): up to 78/150Mbps
- 802.11n (40MHz): up to 108/300Mbps

Access Protocol

- CSMA/CA

Wireless Security

- 64/128bit WEP
- WPA (TKIP with IEEE 802.1x)
- WPA2 (AES with IEEE 802.1x)

RF Output Power (Typical)

- 802.11a/g: up to 15 ± 1.5 dBm
- 802.11b: up to 18 ± 1.5 dBm
- 802.11n: up to 14 ± 1.5 dBm

Supported Operating Systems

- Windows® 2000, XP, Vista, 7, 8

Operating Mode

- Ad-hoc mode and infrastructure mode

*Notes:

1. Specifications in this datasheet are subject to change without prior notice.

Number of Operational Channels

- U.S. 1-11
- Japan 1-13, 14
- Elsewhere Worldwide 1-13

Quality of Service (QoS) Enhancement

- WMM (Wi-Fi Multimedia) function for multi-media data bandwidth requirement

Receiver Sensitivity

- 802.11a -82dBm
- 802.11b -90dBm
- 802.11g -82dBm
- 802.11n -88dBm

Antenna

- 2 Internal antennas

Dimensions

- 81(L) x 25.5(W) x 11.5(H)mm

LED Display

- POWER
- WLAN

Temperature Range

- Operating temperature: 0°C ~ 40°C
- Storage temperature: -20°C ~ 70°C

Humidity

- 10% ~ 90% (Non-condensing)