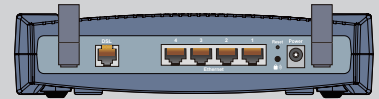**VDSL2**

**N Wireless**

**IPTV Support**

▲ **BiPAC 8200N Front Panel**



▲ **BiPAC 8200N Rear Panel**

## BiPAC 8200N

# Wireless-N VDSL2 Firewall Router

The BiPAC 8200N is an all-in-one VDSL2/Broadband Router with the latest 802.11n technology. It is designed for home and SOHO users who seek for extreme mobility, high-speed wireless connection and better wireless coverage while maintaining high-speed broadband access with VDSL2. With an integrated 802.11n Wireless Access Point, the router enables faster wireless speeds of up to 300Mbps, the two built-in antennae effectively search for wireless signals and automatically adjust to the optimal connection after obstacles have been detected. The SOHO Firewall is integrated to provide protection against hacker attacks while the Quality of Service prioritizes queues and traffic for applications such as music downloads, online gaming, video streaming and file sharing.

## Very High-speed Connectivity for Internet Access and IPTV Services
The BiPAC 8200N is a single VDSL2 port router equipped with four Ethernet ports by embedded 10/100Mbps Ethernet Switch. Compliant with ITU-T G.993.2 (VDSL2) , G.994.1 (handshake) and G.997.1 (Physical layer management for digital subscriber line) VDSL2 standard, the BiPAC 8200N interoperates with major chipsets, and supports Profile 30a with line rate up to 100Mbps / 100Mbps for various bandwidth-consuming applications, like video streaming or Video on Demand.

## Standard-compliant to ITU-T G.993.2, G.994.1 and G.997.1
The BiPAC 8200N complies with the international standards and interoperates with other major/open chipsets. It supports different profiles (8a, 8b, 8c, 8d, 12a, 12b, 17a, and 30a); different band plans (997, 998, and proprietary) and different annex types (Annex A, Annex B and Annex C), by factory settings to fit into different requirements.

## Firewall Security and Smooth Traffic
With the built-in NAT default firewall, the advanced anti-hacker pattern-filtering protection features automatically detect and block Denial of Service (DoS) attacks. In addition, Packet Filtering provides high-level security for access control. Quality of Service Control prioritizes the traffic and allows users to enjoy smooth traffic while running applications such as P2P or multimedia through the Internet.

## Easy Network Management
The Web-based User Interface of the BiPAC 8200N makes it extremely easy for users to install and manage the network. The router supports both DHCP client and server, enabling system administrators to easily integrate this router into existing network environments, as well as manage IP assignment without having to reconfigure other stations.

## Optimal Wireless Speeds and Coverage
With an integrated 802.11n Wireless Access Point, the router delivers 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 Wired Equivalent Privacy (WEP) features enhance the level of transmission security and access control over Wireless LAN. The router also supports the Wi-Fi Protected Setup (WPS) standard, allowing users to establish a secure wireless network by simply pushing a button. If the network requires wider coverage, the built-in Wireless Distribution System (WDS) repeater function allows users to expand the wireless network without the need for any external wires or cables.

- Compliant with ITU-T G.993.2, G.994.1 and G.997.1 VDSL2 Standard
- VDSL2 Profiles: 8a / b / c / d, 12a / b, 17a, 30a
- Band Plan 997 and 998 supported
- Annex A, Annex B, Annex C supported
- US0 Supported
- OLR Supported
- Compliant with VDSL2 MIB
- Integrated 4-port Ethernet Switch
- Ideal for LRE applications
- SOHO Firewall Security with DoS Prevention and Packet Filtering
- Universal Plug and Play (UPnP) Compliant
- Easy Sign-On (EZSO) and Web-based Configuration
- Quality of Service Control
- Easy Network Management
- Supports 802.11n Wireless Access Point with Wi-Fi Protected Setup (WPS), WPA-PSK / WPA2-PSK support
- Wireless speed up to 300Mbps and 3 times the coverage of standard 802.11b / g
- Multiple SSIDs
- Supports TR-069[*1]

**Powering** communications
with **Security**
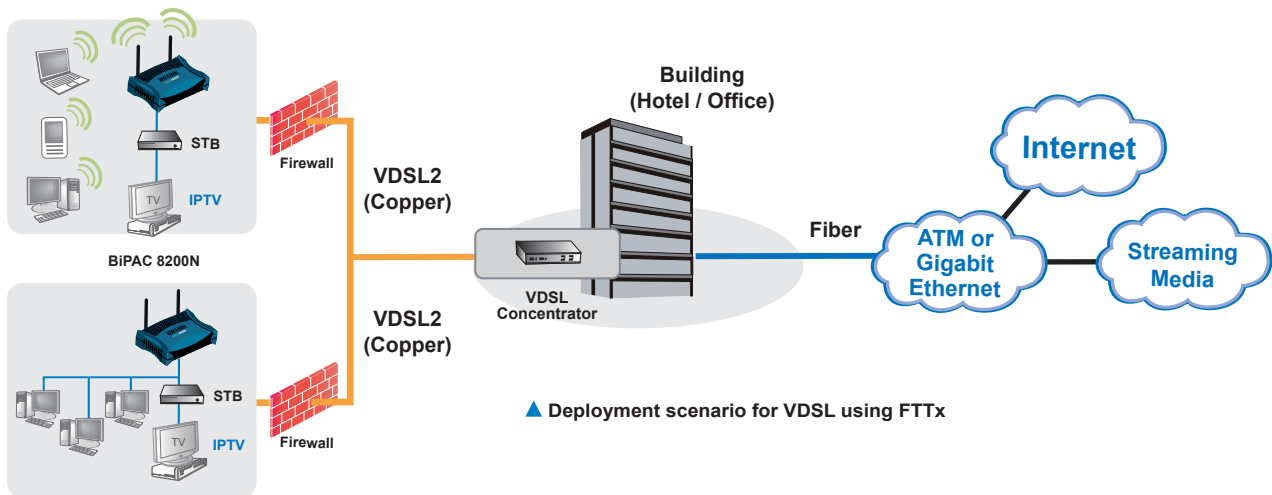
▲ Deployment scenario for VDSL using FTTx

# Features & Specifications

## VDSL2 Compliance
- Compliant with ITU-T VDSL2 Standard G.993.2, G.994.1 and G.997.1
- VDSL2 Profiles: 8a, 8b, 8c.8d, 12a, 12b, 17a and 30a
- Supports 997 and 998 Band Plans
- Supports Annex A, Annex B (B7-1->B7-10,B8-1->B8-16), Annex C
- Upstream/ Downstream connection rates 100 / 100Mbps
- OLR (On Line Reconfiguration), US0 Supported
- Supports Ethernet 802.3ah

## Network Protocols and Features
- NAT, static routing and RIP-1 / 2
- NAT supports PAT and multimedia applications
- Transparent Bridging
- Virtual Server and DMZ
- SNTP, DNS relay and DDNS
- IGMP snooping and IGMP proxy

## Firewall & Virtual Private Network (VPN)
- Built-in NAT Firewall
- Stateful Packet Inspection (SPI)
- Prevents DoS attacks including Land Attack, Ping of Death, etc.
- Remote access control for web base access
- Packet and URL filtering
- Password protection for system management
- VPN pass-through

## Management
- Quick Installation Wizard
- Web-based for remote and local management
- Firmware upgrades and configuration data upload / download via web-based interface
- Embedded Telnet server for local management
- SNMP v1 / v2 / v3, MIB-I and MIB-II support
- Available Syslog monitoring
- Supports DHCP server/client/relay
- Mail Alert
- TR-069*1 supports remote management

## Quality of Service Control
- Supports the DiffServ approach
- Traffic prioritization based-on IP protocol, port number and address

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

## Hardware Specifications
### Physical Interface
- WLAN: 2 antennas
- DSL: VDSL port
- Ethernet: 4-port 10 / 100Mbps auto-crossover (MDI / MDI-X) Switch
- Factory default reset button
- WPS push button
- Power jack
- Power switch

### Physical Specifications
- Dimensions: 7.09" x 4.72" x 1.57" (180mm x 120mm x 40mm)

### Power Requirements
- Input: 12V DC, 1A

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

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