BiPAC 8800NL *R2*

Wireless-N VDSL2/ADSL2+ Firewall Router

The BiPAC 8800NL *R2* is an all-in-one VDSL2/ADSL2+ broadband router with the latest 802.11n technology. It is designed for home and SOHO users who seek extreme mobility, high-speed wireless connection and better wireless coverage while maintaining high-speed broadband access with VDSL2/ADSL2+. Users can enjoy VDSL2 services and broadband multimedia applications such as interactive gaming, video streaming and real-time audio much easier and faster than ever before. With an integrated 802.11n wireless access point, the router enables faster wireless speeds of up to 300Mbps. 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.

Surfing Internet with Flexibility
The BiPAC 8800NL *R2* has four LAN ports and one Giga port can be configured as a WAN port if required. This EWAN (Ethernet WAN) port offers another broadband connectivity option for connecting to a cable or fibre modem. SOHO or small office users can even deploy the BiPAC 8800NL *R2* for FTTx (Fiber-to-the-building, node, or home) applications over a fibre device connection.

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 rate up to 300Mbps and is also compatible with 802.11b/g equipment. The Wi-Fi Protected Access (WPA-PSK / WPA2-PSK) and Wired Equivalent Privacy (WEP) features enhance the level of transmission security and access control over wireless LAN.

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, the 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.

Pathway to the IPv6 future
The BiPAC 8800NL *R2* fully support IPv4 and IPv6 dual stack. Dual Stack means the router is capable of running IPv4 and IPv6. With Billion IPv6 enabled devices, three major transition mechanisms such as Dual-Stack, Dual-Stack Lite, and 6RD (IPv6 rapid deployment) are supported to be adapted easily into service provider's IPv4/IPv6 network..

Ideal for SOHO and Residential Users

- Supports VDSL2 and fall back to ADSL2+
- 4-port 10/100Mbps Ethernet switch integrated
- One Giga Ethernet port can be configured as a WAN interface for broadband connectivity
- SNR adjustments to achieve highest sync speeds
- Monitoring bandwidth usage of each LAN ports
- QoS for traffic prioritization and bandwidth management
- Compliant with IEEE 802.11b/g/n standards
- WPS (Wi-Fi Protected Setup) for easy setup
- Wireless security with WPA-PSK/ WPA2-PSK
- Supports WDS repeater function
- USB port for print server, NAS, and DLNA media server
- SOHO firewall security
- Auto failover and fallback
- Supports IPTV application[1]
- Ease of use with quick installation wizard (EZSO)
- Broadcom chipset for better stability

Features & Specifications

VDSL/ADSL Compliance
- Compliant with xDSL Standard
  - Full-rate ANSI T1.413 Issue 2
  - ITU-T G.993.2 (VDSL2, supporting profile 8a, 8b, 8c, 8d, 12a, 12b, 17a)
  - ITU-T G.992.1 (G.dmt)
  - ITU-T G.992.2 (G.lite)
  - ITU-T G.992.3 (G.dmt.bis)
  - ITU-T G.992.3 Annex M (ADSL2 Annex M)
  - ITU-T G.992.4 (G.lite.bis)
  - ITU-T G.992.5 (G.dmt.bis plus)
  - ITU-T G.992.5 Annex M (ADSL2+ Annex M)
  - ITU-T G.994.1 (G.hs)
- Supports VDSL2 band plan: 997 and 998

Network Protocols and Features
- IPv4 or IPv4 / IPv6 dual stack
- NAT, static (v4/v6) routing and RIP-1/2
- IPv6 stateless/stateful address auto-configuration
- IPv6 router advertisement
- IPv6 over PPP
- DHCPv6
- IP tunnel IPv4 in IPv4 (6RD)
- IP tunnel IPv4 in IPv6 (DS-Lite)
- Universal Plug and Play (UPnP) compliant
- Dynamic Domain Name System (DDNS)
- Virtual server and DMZ
- SNTP, DNS relay, IGMP proxy and IGMP snooping for video service
- MLD proxy and MLD snooping for video service
- Management based-on IP protocol, port number and address
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- Supports port-based Interface Grouping(VLAN)

Firewall
- Built-in NAT firewall
- Stateful Packet Inspection (SPI)
- DoS attack prevention
- Packet filtering (v4/v6) - port, source IP address, destination IP address
- MAC Filtering
- URL content filtering (v4/v6) - string or domain name detection in URL string

Quality of Service Control
- Supports the DiffServ approach
- Traffic prioritization and bandwidth management based-on IPv4/IPv6 protocol, port number , port address

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)
- Classical IP over ATM (RFC 1577)
- MAC encapsulated routing (RFC 1483 MER)
- OAM F4/F5

IPTV Application[1]
- IGMP snooping and IGMP proxy
- MLD snooping and MLD proxy
- Interface Grouping (VLAN)
- VLAN Tag in WAN
- Quality of Service (QoS)

Wireless LAN
- Compliant with IEEE 802.11b/g/n standards
- 2.4 GHz frequency range
- Up to 300Mbps wireless operation rate
- WPS (Wi-Fi Protected Setup) for easy setup
- Supports WPS v2
- 64/128 bits WEP supported for encryption
- Wireless security with WPA-PSK/WPA2-PSK
- Multiple wireless SSIDs with wireless guest access and client isolation
- WDS repeater function
- Wireless LAN schedule control

USB Application Server
- Storage/NAS: FTP server, samba server, DLNA media server
- Print server

Management
- Easy Sign-On (EZSO)
- Web-based GUI for remote and local management (IPv4/IPv6)
- Firmware upgrade and configuration data upload and download via web-based GUI
- Embedded Telnet server for remote and local management
- SNMP v1, v2, MIB-I and MIB-II support
- Supports DHCP server/client/relay
- TR-069[2] supports remote management
- Available syslog
- Mail alert for WAN IP changed
- Auto failover and fallback
- Push service

Hardware Specifications
Physical Interface
- WLAN: 2 external antennas
- DSL: VDSL/ADSL port
- Ethernet: 4-port 10/100M auto-crossover (MDI/MDI-X) switch
- EWAN: One Giga Ethernet can be configured as a WAN interface for broadband connectivity
- USB port * 1
- Factory default reset button
- WPS push button
- Wireless on/off button
- Power jack
- Power switch

Physical Specifications
- Dimensions: Dimensions: 7.29" x 4.97" x1.53" (185.2mm x 126.4mm x 39mm)

Power Requirements
- Input: 12V DC, 1.5A

Operating Environment
- Operating temperature: 0 ~ 40℃
- Storage temperature: -20 ~ 70℃
- Humidity: 20 ~ 95% non-condensing

*Note:

1.   IPTV application may require subscribing to IPTV services from a Telco/ISP.

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