8500/8520 SHDSL Router

2.3Mbps/4.6Mbps Symmetric SHDSL Bridge/Router

▲ BEC 8520

- Support Symmetric Data Rates of up to 4.6Mbps.
- Back-to-back Connectivity for Bandwidth-consuming Applications
- Firewall Security with DoS Prevention and SPI
- Access control with URL Blocking and Packet Filtering
- DiffServ Quality of Service Control
- Virtual Private Network (VPN)
- Dynamic Domain Name System (DDNS)
- Available Syslog monitoring
- Integrated 4-port Ethernet Switch

High-speed Internet Access with 2/4-wire SHDSL

The BIPAC 8500 series comply with SHDSL standards for worldwide deployment and supports symmetric rates of up to 2.3Mbps. The BIPAC 8520 supports symmetric rate of up to 4.6Mbps. It is designed for office users, enabling high-speed Internet connections. User can enjoy SHDSL services and broadband multimedia applications such as interactive gaming, video streaming and real-time audio much easier and faster than ever before.

High-speed Back-to-back Connectivity

The BIPAC 8500/8520 series can be configured as RT/COT (client/server) mode for back-to-back applications. With symmetric transmission auto-detect speed of up to 2.3Mbps / 4.6Mbps, it can offer a cost-effective way for bandwidth-consuming applications, such as distance learning and video conferencing.

Quality of Service

QoS gives you full control over which types of outgoing data traffic should be given priority by the router, ensuring important data like gaming packets, customer information, or management information move through the router at lightning speed, even under heavy load. You can throttle the speed at which different types of outgoing data pass through the router, to ensure P2P users don't saturate upload bandwidth, or office browsing doesn't bring client web serving to a halt. In addition, or alternatively, you can simply change the priority of different types of upload data and let the router sort out the actual speeds.

SOHO Firewall Security with DoS and SPI

Along with the built-in NAT natural firewall feature, the BIPAC 8500/8520 series also provide advanced hacker pattern-filtering protection. It can automatically detect and block Denial of Service (DoS) attacks, such as IP Spoofing, Ping of Death, etc. The BIPAC 8500/8520 series are built with Stateful Packet Inspection (SPI) to determine if a data packet is allowed through the firewall to the private LAN.

Virtual Private Network (VPN)

The BIPAC 8500/8520 series supports embedded VPN protocols, including PPTP client/server, IPSec (IKE, 3DES and AES) and L2TP within IPSec, for establishing a private encrypted tunnel over the public Internet to ensure transmission security between two or more sites.

8500/8520 SHDSL Router

TECHNICAL SPECIFICATIONS

SHDSL Compliance

• Compliant with ITU-T G.991.2 Standard
• Symmetric data rates of up to 2.3 Mbps / 4.6 Mbps

Network Protocols and Features

• NAT, static routing and RIP-1/2
• Universal Plug and Play (UPnP) Compliant
• Dynamic Domain Name System (DDNS)
• Virtual Server and DMZ
• SNTP, DNS relay and IGMP proxy
• POP3 (email account checking)

Firewall

• Built-in NAT firewall
• Stateful Packet Inspection (SPI)
• Prevent DoS attacks including IP Spoofing, Land Attack, Smurf Attack, Ping of Death, TCP SYN Flooding, etc.
• Packet Filtering – port, source IP address, destination IP address, MAC address
• URL Content Filtering – string or domain name detection in URL string

Quality of Service Control

• Support DiffServ approach
•Traffic prioritization and bandwidth management based-on IP protocol, port number and address

Hardware Specification

Physical Interface

• WAN: SHDSL port
• LAN: 4-port 10/100M auto-crossover (MDI/MDI-X) Switch
• Factory default reset button
• Power jack
• Power switch

Physical Specification

• Dimensions: 7.28" x 5.0" x 1.85" (185mm x 127mm x 47mm)

Power Requirement

• Input: 12V DC, 1A

Operating Environment

• Operating temperature: 32 º F ~ 104 º F
• Storage temperature: -4 º F ~ 158 º F
• Humidity: 20 ~ 95% non-condensing

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

Virtual Private Network (VPN)

• Embedded IPSec & PPTP client/server
• IKE key management
• DES, 3DES and AES encryption for IPSec
• MPPE Encryption for PPTP
• L2TP within IPSec
• L2TP/PPTP/IPSec pass-through

Management

• Web-based GUI for remote and local management
• Firmware upgraded and configuration data upload and download via Web-based GUI
• Embedded Telnet server for remote and local management
• Available Syslog monitoring
• SNMP v3, MIB-I and MIB-II supported
• Support DHCP server/client/relay

BEC Technologies, Inc.
15237 Springdale Street, Huntington Beach, CA 92649 Toll Free: 1-877-4BECTEC
E-mail: sales@bectechnologies.net