Efficient Networks® Business Class DSL Routers

Versatile

Efficient Networks® Business Class DSL Routers support ADSL, SDSL, or IDSL — a single, common routing code makes network management simple.

Secure

Efficient Networks® Business Class DSL Routers include: bridging support, Network Address Translation (NAT/NAPT), Dynamic Host Configuration Protocol (DHCP), and a built-in, IP filtering firewall with scripting and optional Secure VPN.

Scalable

As the corporate network grows, the Efficient Networks® Business Class DSL Router grows with it — supporting multiple subnets and up to 100 or more users.

The Efficient Networks® DSL solution for up to 100 or more users with robust firewall and optional Secure VPN

Efficient Networks® Business Class DSL Routers provide DSL access for up to 100 or more users with robust firewall and optional Secure Virtual Private Network (VPN) capabilities. Efficient Networks® Business Class DSL Routers are Business Contingency Plan ready, with features such as Dial Backup and Virtual Router Redundancy Protocol (VRRP).*

With these features, it is no wonder that the Efficient Networks® Business Class DSL Routers are some of the most widely deployed today. Besides the award-winning Efficient Networks® 5861, the Efficient Networks® 5851 is the number one selling SDSL customer premises equipment (CPE) in the world.**

Providing broadband access, best-of-class routing, and advanced security features to small and medium businesses, the Efficient Networks® 5800 Series Business Class DSL Routers are the complete DSL solution.

Versatile, secure, scalable and with high availability — get an Efficient Networks® Business Class DSL Router and expand your DSL capabilities today!

* In case of DSL service interruption, the Dial Backup feature enables non-stop Internet access by automatically switching traffic to an external V.90 or ISDN modem. The VRRP feature allows heavy-duty Internet users to continuously handle mission-critical transactions by switching traffic to a backup DSL router.

**According to DataQuest, Dell'Oro Group, and Cahner's In-Stat. The Efficient Networks® 5861 was awarded "Best of Breed" by InternetWeek™ magazine.

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Efficient NETWORKS®

Software Features

Routing
- TCP/IP with RIP1 (RFC 1058), RIP1-compatible and RIP2 (RFC 1389) or static routing on the LAN and/or WAN
- Novell® IPX with RIP/SAP (RFC 1552)
- DHCP server (RFC 2131, RFC 2132), relay agent (RFC 1542), and client (RFC 2132)
- DNS relay
- Multiple Ethernet subnets on the LAN support NAT, RIP, DHCP, ARP and IP filters
- Virtual routes (different routing tables based on the source IP address)
- VRRP (Virtual Router Redundancy Protocol) (RFC 2338)

PPP (RFC 1661, RFC 2364)
- PPP over Ethernet (RFC 2516)
- Data compression of up to 4:1 (STAC™ LZS) (RFC 1974)
- Van Jacobson header compression (RFC 1144)
- Spoofing and filtering (IP-RIP, IPX-RIP, SAP, Watchdog, serialization)
- Automatic IP and DNS assignment (RFC 1877)

IP Address Translation
- Network renumbering (RFC 1631)
- Network Address Translation (NAT/PAT)
- NAT supports multiple PPTP clients and one server per IP address
- LAN servers supported with NAT

Configuration Management
- Quick start program for easy setup
- Windows® configuration management via SNMP
- TFTP download/upload of new software, configuration files, and scripts
- Performance monitor
- Dynamic event and history logging
- Administration through SNMP, Telnet, or VT100 terminal
- Network boot uses the BootP server (RFC 2131, RFC 2132)

Firewall
- Filter on source and/or destination IP address/port value
- Filter on SYN, ACK flags and ICMP
- Apply input, output, and forward filters on each interface
- Logging and scripting

ATM
- Encapsulation (IP, Bridging, and Bridge Encapsulated Routing) (RFC 2684/1483)
- PPP over ATM (LLC and VC multiplexing) (RFC 2364)
- Classical IP (RFC 1577)
- AAL5
- Up to 6 Virtual Circuits (VC)s
- Virtual Circuit (VC) traffic shaping (UBR, VBR, CBR)
- I.610 OAM F5 LoopBack

Frame Relay
- HDLC packet-based format link layer
- RFC 1490 (IP, Bridging and Encapsulated Routing)
- RFC 1973 (PPP)

High Availability
- Dial Backup
- VRRP (Virtual Router Redundancy Protocol) (RFC 2338)

Security Management
- User authentication (PAP/CHAP) with PPP (RFC 1334, RFC 1994)
- Password control for configuration manager
- SNMP community name reassignment
- Telnet/SNMP port reassignment/access control list

Optional Secure VPN Software
- L2TP, IPSec and L2TP inside of IPSec
- Internet Key Exchange including Aggressive Mode
- IPSec with AH, ESP
- Implements RFCs: 2104, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2412, 2451
- DES (56-bit) and 3DES (168-bit) encryption
- Efficient Networks® RapidSecure VPN on Efficient Networks® 5851 and 5861

Efficient Networks® Business Class DSL Routers —

the perfect solution for secure, remote connectivity

to the Internet or to a corporate network (LAN).

Hardware Features

WAN Interface
- 5851: SDSL, 2B1Q, RJ-45 interface
- 5861: ADSL, G.lite, DMT, RJ-11 interface
- 5871: IDSL, 2B1Q, RJ-45 interface

LAN Interface
- 5851: Built-in 4-port Ethernet hub: RJ-45 (4)
- 5861: Built-in 4-port Ethernet hub: RJ-45 (4)
- 5871: Built-in 4-port Ethernet hub: RJ-45 (4)

Serial Interface
- One RS-232 asynchronous console port (RJ-45)

RapidSecure VPN
- Accelerates VPN encryption (DES/3DES)
  (*Only on Efficient Networks® 5851 and 5861*)

For more information regarding Efficient Networks, Inc., or its products
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