



4600 Series

**High-performance**

Speed and performance with hardware-based VPN acceleration and an integrated Ethernet switch

**VPN Ready**

Built-in and standard VPN features

**Enterprise-class**

Robust routing, security, and management features optimized for enterprise applications

**NETOPIA 4600 SERIES**

High-performance Broadband Routers for Small, Medium, and Distributed Enterprises

**Speed, performance, and enterprise-class features for the demanding business user**



The Netopia 4600 Series is a family of routers designed for the needs of small, medium, and distributed enterprises. The 4600 Series combines hardware-based VPN acceleration, built-in software VPN features, an Ethernet switch, and powerful routing and management tools in a single, all-in one device.

The 4600 Series supports the main access technologies for today's enterprise marketplace. Carriers, ISPs, and managed service providers (MSPs) will appreciate the business-class WAN options of SDSL, SHDSL, IDSL and T1.

Integrated hardware acceleration powers wire-speed VPN applications for retail locations, branch offices, and enterprise teleworkers. Netopia 4600s are the only routers in their class to combine a firewall with standards-based VPN features, at no extra cost. With no complicated feature keys or software upgrades to manage, the 4600 series is both an IP router and a high-performance security appliance in one.

For the enterprise user, the 4600 Series is a scalable solution ready for high-performance applications.

**NETOPIA BROADBAND GATEWAYS**

Only Netopia offers affordable Broadband Gateways for every connection type -- from DSL to T1. Perfect for homes, home offices, teleworkers, small businesses and corporate branch offices, Netopia Broadband Gateways bring high speed broadband Internet access to every computer. Built-in security protects data, applications and gateways without the need to purchase separate software or hardware. Advanced features support growth while protecting your investment. Quick setup, comprehensive management and high reliability make Netopia both powerful and easy to use.

## NETOPIA 4600 SERIES

High-performance Broadband Routers for Small, Medium, and Distributed Enterprises

### TECHNICAL SPECIFICATIONS

#### 4600 Series Part Numbers

4622-XL: T1 VPN Router  
 4652-XL: SDSL/IDSL VPN Router  
 4652-T: SDSL/IDSL Router (Covad)  
 4653-XL: SHDSL VPN Router

#### Hardware Features

**WAN Interface**  
 4622: T1 CSU/DSU, RJ-48 interface  
 4652: SDSL/IDSL, RJ-48 interface  
 4653: SHDSL (2-wire or 4-wire operation), RJ-48 interface

**LAN Interface**  
 10/100BaseT Ethernet managed switch  
 - Auto cross-over  
 - Half or full-duplex autosensing  
 - 4622 and 4653 (8 port), 4652 (4 port)

**Management Interface**  
 Console port, DEg DTE

**Acceleration**  
 VPN Acceleration Module (all models)

#### ATM

- ATM Adaptation Layer 5 (AAL5)
- Up to 8 ATM Permanent Virtual Circuits (PVCs)
- Bridged or routed Ethernet encapsulation, LLC/SNAP and VC Multiplexing
- DHCP Client
- I.610 OAM F5 Loopback

#### Frame Relay

- HDLC packet-based format link layer
- ANSI T1.617 and ANSI T1.618 Annex D, Annex A, and Cisco HDLC
- Up to 32 Data-link Connection Identifiers (DLCIs)
- Multiprotocol interconnect over Frame Relay
- DHCP Client

#### PPP

- Point-to-Point Protocol (PAP/CHAP authentication)
- PPP over Ethernet Gateway
- PPP over ATM Gateway: LLC and VC Multiplexing
- PPP over Ethernet pass-thru
- PPP over Frame Relay

#### Routing Function

- Numbered or unnumbered WAN interface
- Up to 8 subnets on the LAN, with DHCP server associations
- RIP1 and RIP2, static routes
- Network Address Translation (NAT), NAT, and MultiNAT
- IP Multicast Forwarding, IGMP V1, V2
- DHCP Server and Relay
- DNS Proxy
- VPN Pass-thru for PPTP and IPSec
- Transparent bridging option

#### Quality of Service

- ATM: UBR, CBR
- IP: TOS bit prioritization

#### High Availability

- Backup Default Gateway via an external router
- Dial back-up via a console attached modem

#### Security

- Built-in firewall, packet filtering on source/destination address, service, and protocol; up to 255 rules in up to 8 filter sets
- Network Address Port Translation (NAPT)
- IPSec VPN Gateway, Tunnel Mode
  - Hardware accelerated
  - DES and 3DES encryption
  - Manual key and IKE
  - AH and ESP: MD5 and SHA1
- PPTP VPN Gateway, client or server termination
- Up to 15 PPTP or IPSec VPN security associations

#### Management

- Management via menu-driven or CLI interfaces with console or Telnet access
- Easy setup with menu-driven interface
- Console Tiered Access, 2 levels of configuration access
- Configuration Management, up to 3 backup configurations
- System diagnostics and logs
- SNMP V1 and V2
- TFTP or X-Modem download/upload of new firmware and configuration files
- Utilities: ICMP ping, trace route, Telnet client, and Syslog client
- LEDs: power, WAN, and Ethernet; link, status, activity indications

#### Regulatory

- FCC Part 68, Part 15, Class B
- UL Listed, CSA Approved
- European EMC & Immunity
- TS-001 Australian Safety

#### Environmental

- Operating: 0 to +40C°
- Storage: 0 to +70C°
- Power: North America: 120VAC nominal, 60HZ, .25A; Europe: 100-240 VAC, 50/60 HZ, 0.6A

#### Weight and Dimensions

- Weight: 1 lb 14 oz (851g)
- Dimensions: 9.45" (240mm) W, 2.25" (57.2mm) H, x 7.95" (202mm) L

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4600 V 8/03