



4500 Series

Business-class

Robust routing, security, and management features optimized for the business user

VPN Ready

Built-in and standard VPN features

Cost-effective

Application specific architecture designed for the small business budget

NETOPIA 4500 SERIES

Business-class Broadband Routers for Small and Medium Enterprises

Built-in business-class features mean performance and value for the small and medium enterprise



The Netopia 4500 Series is a family of business-class routers designed for the needs of small and medium enterprises and teleworkers. The 4500 Series combines powerful routing features, built-in VPN capabilities, and enterprise-class management tools into a single, all in one device.

The 4500 Series supports the main access technologies for today's business marketplace. Carriers, ISPs, and managed service providers (MSPs) will appreciate the broad technology coverage, with WAN options for ADSL Annex A, ADSL Annex B, SHDSL, SDSL, IDSL and T1.

High-performance routing features power business-class applications for the network-savvy small business or teleworker. Server hosting, video-conferencing, and sophisticated routing schemes are easy to configure and manage.

The Netopia 4500s are the only routers in their class to combine a firewall with standards-based VPN features, all at no extra cost. With no complicated feature keys or software upgrades to manage, the 4500 Series is both an IP router and a security appliance in one.

For the network-centric small and medium enterprise, the 4500 Series delivers the right combination of business-class performance, simplicity and value.

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 4500 SERIES

Business-class Broadband Routers for Small and Medium Enterprises

TECHNICAL SPECIFICATIONS

4500 Series Part Numbers

- 4522: T1 Router
- 4522-XL: T1 VPN Router
- 45412: ADSL (POTS) Router
- 45413: ADSL (POTS) Router
- 4542: ADSL (ISDN) Router
- 4552: SDSL/IDSL Router
- 4553: SHDSL Router

Hardware Features

- WAN Interface**
- 4522/4522-XL: T1 CSU/DSU
 - 45412: ADSL Annex A (POTS), G.lite, DMT, RJ-11 interface
 - 45413: ADSL Annex A (POTS), G.lite, DMT, RJ-11 interface
 - 4542: ADSL Annex B (ISDN), RJ-11 interface
 - 4552: SDSL/IDSL, RJ-48 interface
 - 4553: SHDSL, RJ-48 interface

- LAN Interface**
- 4522/4522-XL: 10/100BaseT Ethernet port
 - 45412: 10/100BaseT Ethernet port
 - 45413: 10BaseT 4-port Ethernet hub
 - 4542: 10/100BaseT Ethernet port
 - 4552: 10/100BaseT Ethernet port
 - 4553: 10/100BaseT Ethernet port

- Management Interface**
- Console port, DE9 DTE

- Acceleration**
- 4522-XL: VPN Acceleration Module

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
 - 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
- VPN acceleration for IPSec, DES and 3DES applications

Management

- Management via menu-driven or CLI interfaces with console or Telnet access
- Easy Setup with menu-driven interface
- WebUI (ADSL models only)
- 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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