



**ADSL 2/2+ compliant modem for faster ADSL speeds and extended distances over which high-speed data can be delivered**

**High-speed "always-on" Internet access**

**Easy setup with auto configuration of ADSL settings**

**Built-in 10/100 four-port Ethernet switch**

**ADSL modem plus router supports up to 253 concurrent Internet users**

**Advanced security from hacker attacks with Stateful Packet Inspection (SPI) and Network Address Translation (NAT) firewalls**

**Works with all popular ADSL services**

**TR-69 Support**

**Supports Universal Plug and Play (UPnP)**

**Works with most computer operating systems, including Windows, Macintosh and Linux**

**Documentation is provided in English and Spanish**

**Broadcom CPU/DSP Chipset**

**One year warranty**

# Zoom ADSL X5



- ADSL 2/2+ Modem
- + Router
- + Advanced Firewall
- + 4-port Switch

## Model 5754

This versatile product provides a shared ADSL Internet connection for up to 4 directly connected computers or for a network of up to 253 computers and other devices. Plug the X5's phone cord into a phone line with ADSL service. Then use its 4 Ethernet LAN ports to plug in computers, Ethernet switches, wireless access points, HomePlug adapters, or other devices. Setup is easy using any Web browser. The X5 supports all popular ADSL protocols, and delivers download speeds up to 24 Mbps. Best of all, the X5 is produced and supported by Zoom Telephonics, a communication products leader since 1977.

### Optional Use As A Router

If you choose to use the X5's router features, you'll enjoy its flexibility, friendly user interface, and extensive features. The router features are useful for all the devices plugged directly into the X5 or linked to the X5 through a switching hub, wireless access point, HomePlug, or other network connection. Extensive X5 router features include an SPI/NAT firewall, Denial of Service attack protection, IP filtering, Virtual Server, DMZ, LAN and WAN access control, online gaming support, extensive debugging and diagnostic tools, and much more. The friendly X5 graphical user interface makes it easy for you to use your favorite browser to set any router feature you like, even from remote locations.

### Specifications

#### ADSL Compliance

- Compliant with ADSL standards:
  - Full-rate ANSI T1.413 Issue 2, and ITU G.dmt (G.992.1) standards
  - Splitterless G.lite (G.992.2) specification
  - Annex A
- Compliant with ADSL 2 standards:
  - G.dmt.bis (ITU G.992.3)
  - ADSL Annex L (reach extended DSL)
- Compliant with ADSL 2+standards:
  - G.992.5
  - Annex M
- DMT modulation and demodulation
- Full-rate adaptive modem ADSL
  - Maximum downstream rate up to 8 Mbps
  - Maximum upstream rate up to 1024 Kbps ADSL2+
  - Maximum downstream rate up to 24 Mbps
  - Maximum upstream rate of 3 Mbps (Annex M)
- Supports splitterless ADSL implementation
- Interoperable with all major DSLAM manufacturers

#### ATM Protocols

- WAN mode support: PPP over ATM (RFC 2364) and PPP over Ethernet (RFC 2516)
- LAN mode support: bridged/routed IP over ATM (RFC 1483)
- ATM Forum UNI 3.1/4.0 PVC
- Up to four virtual circuits
- ATM segmentation and re-assembly
- ATM AAL5 (adaption layer type 5)
- OAM F4/F5

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### X5 Back Panel



### Specifications (continued)

Bridge Mode	<ul style="list-style-type: none"><li>Ethernet to ADSL self learning - Transparent Bridging (IEEE 802.1D)</li><li>Supports up to 128 MAC learning addresses</li></ul>
Router Mode	<ul style="list-style-type: none"><li>Static routing • DNS Proxy • NAT (Network Address and Port Translation)</li><li>PPP Half Bridge • Virtual Server/DMZ Support/Port triggering • Dynamic DNS</li><li>DHCP (Dynamic Host Configuration Protocol) server, relay and client • IGMP Snooping</li><li>NAT (Network Address Translation)</li></ul>
Security	<ul style="list-style-type: none"><li>Stateful Packet Inspection (SPI) • User authentication for PPP</li><li>PAP (Password Authentication Protocol)</li><li>CHAP (Challenge Authentication Protocol)</li><li>Password protected system management</li> <li>VPN passthrough: PPTP, L2TP, IPsec tunnel</li><li>IP/Port Filtering</li><li>Attack Protection</li><li>Denial of Service Protection</li></ul>
Management	<ul style="list-style-type: none"><li>Parental control - URL Filtering</li><li>Password security</li><li>TR69 Support</li><li>Auto configuration of ADSL network settings</li><li>Universal Plug and Play (UPnP)</li><li>Remote and local command line or HTTP interface configuration</li><li>Software upgradeable firmware through HTTP interface</li><li>ATM traffic management functions support UBR without PCR, UBR with PCR, CBR, rt-VBR, nrt-VBR with ATM forum TM 4.1</li><li>Loads setup from a file for easy configuration input by service providers</li></ul>
Ethernet Interface	<ul style="list-style-type: none"><li>IEEE 802.3 compliant</li><li>Four Auto-sensing 10/100 BaseT - RJ45 ports</li></ul>
HTML Graphic User Interface	<ul style="list-style-type: none"><li>HTTP Graphical User Interface</li><li>Password protected access</li><li>Firmware upgrades</li><li>WAN and LAN side connection statistics</li><li>Configuration of static routes and routing table</li><li>Configuration of NAT/NAPT</li><li>Selection of bridge or router mode</li><li>PPP user ID and password</li><li>Configuration of virtual circuits</li></ul>
7 Status Indicators	<ul style="list-style-type: none"><li>POWER - power on/off</li><li>DSL - DSL link is established</li><li>Internet - activity</li><li>Four Ethernet Indicators - Ethernet link is established</li></ul>
Warranty	<ul style="list-style-type: none"><li>1 year</li></ul>
Size	<ul style="list-style-type: none"><li>7.03 x 5.4 x 1.3 inches (178 x 137 x 33mm)</li></ul>
Regulatory Approval	<ul style="list-style-type: none"><li>CE, FCC Part 15B, FCC Part 68, RoHS compliant, US/Canadian Safety Approval (BV)</li></ul>



### System Requirements

- Your phone line must be enabled for one or more of the standard ADSL services. (Standard services include ADSL 2+ G.992.5, ADSL2 G.992.3, ADSL G.992.1 (G.DMT), G.992.2 (G.lite), ANSI T1.413 issue 2, Annex L Reach Extended ADSL2, Annex M.)
- Directly connected devices, such as computers, switches, and wireless access points, must have an Ethernet port.

### Package Contents

- ADSL modem/router with Broadcom CPU/DSP chipset
- Ethernet cable
- Phone cord
- CD ROM
- Quick Start Flyer
- Energy-saving switching power cube, 100 to 240 vac, 50 to 60 Hz
- ADSL filter(s)  
An ADSL filter allows a telephone, fax machine, or other telephone instrument to be used even when you are on the Internet with your ADSL modem/router. Filters are included in some markets. Please check the package for specifics, or ask your dealer.



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