



ADSL2/2+ compliant modem for faster ADSL speeds

Zoom 125 Speed Booster provides a wireless speed boost for data rates above 802.11g*

802.11g Wireless Access Point with non-blocking 802.11b support

Built-in router provides shared Internet access for up to 253 concurrent users

Built-in 10/100 four-port Ethernet switch

Wi-Fi Protected Access (WPA) for improved wireless security

Works with all popular ADSL services

Provides Virtual Private Networking Passthrough

Advanced security from hacker attacks with Stateful Packet Inspection, Packet filtering, Denial of Service attack and Port Scan detection and prevention

Protection against IP Spoofing and other common attacks

SNMP Support (Simple Network Management Protocol)

Two high-performance antennas for superior wireless range

Universal Plug and Play (UPnP)

Easy installation

Two year warranty

Zoom ADSL X6



Wireless Speeds up to 125 Mbps

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

Model 5590

The Zoom X6 provides an extensive range of networking and Internet access features in a surprisingly affordable product. Advanced security features protect sensitive data in the home or office. You'll appreciate the superior range of the X6 wireless transmissions and the easy setup and management. And with ADSL2/2+ compliance, the X6 works with both older ADSL protocols and the new generation of higher-speed Internet connections.

The 802.11g Wireless Access Point provides easy network installation and freedom to roam. With Zoom 125 Speed Booster, wireless data rates can reach 125 Mbps*. The Model 5590 also provides complete compatibility with 802.11g from other manufacturers operating at 54 Mbps and compatibility with the older 802.11b standard operating at 11 Mbps. Unlike other wireless access points, the X6 can support concurrent connections to both 802.11(b) and (g) devices without compromising the data rate of the higher speed devices.

With competing products, an 802.11b device on an 802.11g network can bring the performance of the entire wireless network down to the slower 802.11b speed. The Model 5590 is equipped with Prism™ Nitro Mode technology to minimize collision problem created with a mixed network of 802.11b and 802.11g devices and maximize network performance.

Wireless security includes the newer Wi-Fi Protected Access(WPA) protocol as well as Wired Equivalency Protection (WEP).

Zoom ADSL gateways are backed by a two year warranty and over 28 years of experience in the design and support of communications products.

Specifications

ADSL Compliance

- Compliant with ADSL standards:
 - Full-rate ANSI T1.413 Issue 2, ITU G.dmt (G.992.1) standards
 - Splitterless G.lite (G.992.2) specification
- Compliant with ADSL 2 standards:
 - G.dmt.bis (ITU G.992.3)
- Compliant with ADSL 2+ standards:
 - G.992.5
 - ADSL2 Annex L (Reach extended ADSL)
- DMT modulation and demodulation
- Full-rate adaptive modem
 - Maximum downstream rate of 8 Mbps (ADSL), or 24 Mbps (ADSL 2+)
 - Maximum upstream rate of 896 Kbps (ADSL), or 1024 Kbps (ADSL 2+)
- 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) and Classical IP over ATM (RFC 1577)
- ATM Forum UNI 3.1/4.0 PVC
- Up to eight virtual circuits
- ATM segmentation and re-assembly
- ATM AAL5 (adaption layer type 5)
- OAM F4/F5

Bridge Mode

- Ethernet to ADSL self learning - Transparent Bridging (IEEE 802.1D)
- Supports up to 128 MAC learning addresses

Specifications (continued)

Router Mode	<ul style="list-style-type: none">• Static routing• DNS Server• DHCP (Dynamic Host Configuration Protocol) server and client and Relay• NAT (Network Address Translation)• NAPT (Network Address and Port Translation)• RIP V1 and V2• PPP Half Bridge• Virtual Server/DMZ Support
Wireless 802.11	<ul style="list-style-type: none">• Compliant with IEEE 802.11g and 802.11b standards• 2.4 GHz - 2.484 GHz frequency range• Up to 54 Mbps wireless data rate• Zoom 125 Speed Booster for up to 125 Mbps effective rate*• 64/128 bit Wired Equivalency Protection (WEP) with Pass Phrase• Wi-Fi Protected Access (WPA) with Pass Phrase• 802.1X Authentication
Security	<ul style="list-style-type: none">• Stateful Packet Inspection (SPI)• User authentication for PPP• PAP (Password Authentication Protocol)• CHAP (Challenge Authentication Protocol)• Password protected system management• VPN passthrough: PPTP, L2TP, IPsec tunnel• Advanced Firewall Ports Filtering• Black Lists• Attack Protection• Denial of Service Protection• Port Scan Detection and Prevention
Ethernet Interface	<ul style="list-style-type: none">• IEEE 802.3 compliant• Four 10/100 Mbps auto-sensing RJ-45 ports
Wireless Interface Management	<ul style="list-style-type: none">• Two antennas, one internal and one swivel external• Password protected access• Universal Plug and Play (UPnP)• SNMP Version 2• Remote and local command line or HTTP interface configuration• Software upgradeable firmware through HTTP interface• Loads setup from a file for easy input of a service provider's configuration• ATM traffic management functions support UBR, CBR, rt-VBR, nrt-VBR in accordance with ATM forum TM 4.1
Status Indicators	<ul style="list-style-type: none">• Five front panel indicators: Wired LAN connection, Wireless connection, ADSL link, Modem status, Power• Eight rear panel indicators report port speed, activity, and link for each Ethernet port
HTML graphic user Interface	<ul style="list-style-type: none">• Password protected access• Firmware upgrades• WAN and LAN side connection statistics• Configuration of static routes and routing table• Selection of bridge or router mode• PPP user ID and password• Configuration of virtual circuits
Warranty	<ul style="list-style-type: none">• 2 years
Size	<ul style="list-style-type: none">• 7.5 x 6.75 x 1.25 inches, 19 x 17 x 3.2 cm
Regulatory Approval	<ul style="list-style-type: none">• CE, UL, C-UL, FCC Part 15B, FCC Part 68, CS-03

* The 802.11g Wi-Fi standard transmits at a maximum of 54 Mbps. Higher effective speeds can be achieved by using compression algorithms and techniques like packet aggregation and frame bursting. The maximum speed obtained by the Model 5590 depends on the type of data being sent and the actual data rate of an 802.11 connection.

System Requirements

- A computer with an Ethernet port, or 802.11g, or 802.11b wireless capability and any operating system that supports TCP/IP (Windows, Mac, Linux or other)

Package contents:

- ADSL modem with wireless-G router
- Ethernet cable
- Phone cable
- CD ROM
- User manual
- Power adapter
- Filters and phone adapters:
Filters and/or phone adapters may be included in some markets. Please check the package for specifics or ask your dealer. An ADSL filter allows a telephone, facsimile machine, or other telephone instrument to be used even when you are online with your ADSL modem.

**International Headquarters**

Zoom Technologies, Inc.
207 South Street
Boston, MA 02111
USA

Tel: 617 423-1072

Fax: 617 423-3923

email: sales@zoom.com

www.zoom.com

Nasdaq: ZOOM

**European Sales/Support
Zoom/Hayes**

430 Frimley Business Park
Frimley, Camberley
Surrey, GU16 7SY UK
Tel: +44 (0) 1276 704400
Fax +44 (0) 1276 704500

©2005 Zoom Technologies, Inc.,
207 South Street, Boston, MA 02111 USA
Zoom is a registered trademark of Zoom
Technologies, Inc. Windows 98, Windows
Me, Windows 2000, and Windows XP are
registered trademarks of Microsoft
Corporation. All other registered
trademarks and trademarks used herein
are the property of their respective
holders.