Competitive Cross-Reference Sales Tool

Cisco SOHO 9x Secure Broadband Routers vs Zyxel Prestige 650 Series

Comprehensive security, easier set up and deployment and true business-class features give the Cisco SOHO 9x series the competitive edge over its Zyxel counterparts. It delivers lower total cost of ownership and the backing of a truly global technology leader to Small Medium Businesses.

Broadband is rapidly becoming the standard for Internet access for growing businesses, as they reap the rewards of faster performance and lower operating costs. However, the always-on characteristics of broadband mean that security is more than ever a business-critical issue.

The Cisco SOHO 9x Series Secure Broadband Routers provide all-in-one access and security device with the powerful routing and security features of Cisco IOS software, including firewall protection for secure Internet connectivity and encryption for Virtual Private Networks (VPNs). With easy set-up for non-technical users and advanced management features to lower operational costs this business-class range is the optimum choice for growing businesses. Here is why professional users should choose the Cisco SOHO 9x Series:

Cisco SOHO 9x Secure Broadband Routers deliver total security

Specification
A choice of models to suit the specific needs of the business

- Cisco SOHO 91 Dual Ethernet Router with Ethernet WAN port for use with an external DSL or cable modem.
- Cisco SOHO 97 ADSL Router with an integrated ADSL WAN port.
- Both models offer a four-port 10/100 Ethernet LAN switch for connecting multiple PCs or network devices in a small office network.

Security
Enterprise-class protection for growing businesses

- Allows all users in a small office to share a secure broadband connection with an integrated stateful inspection firewall.
- Corporate teleworkers or agents can also take advantage of the Cisco SOHO 90 Series routers for VPN connections to the corporate network.
- Secure encrypted connections through router based VPNs are possible with the included 3DES VPN software in Cisco IOS software.
- Users can terminate VPNs behind the router with individual PC VPN clients.

Easy set-up and deployment
Non-specialist users can put Cisco SOHO 9x series routers to work rapidly

- Web-based Cisco Router Web Set-up tool (CRWS) allows users to install the router quickly, without knowledge of Cisco IOS software.
- No additional software is needed – users simply point a browser to the router and follow a few easy steps to get the router up and running.
- Cisco Configuration Express service also allows Enterprise or Service Provider customers who order direct from Cisco to have pre-configured SOHO 90 Series routers shipped from manufacturing directly to the end user site.

Advanced Management Features
Sophisticated, yet easy-to-use management functions make for lower total cost of ownership

- Incorporates debug and troubleshooting features of Cisco IOS Software.
- Support for centralised management and configuration updates with the Cisco IE2100.
- Utilises the same Cisco IOS software used in large Service Provider and Enterprise networks, allowing even small office users to take advantage of the proven reliability of Cisco IOS software.

As well as superior technology, Cisco has the corporate global strength to provide sustainable long-term partnership and support. Cisco offers:

- Best in class serviceability, manageability and support
- Continuous product enhancement
- Industry leadership – Cisco is a world-wide driver of new technologies (Voice, IP Tel, etc.)
- Breadth of products and interfaces
- Superior SNA, QoS, Security and VPN implementation

Zyxel Limitations

- The Zyxel models offer limited security features, a critical issue for broadband and especially for small businesses that are less likely to have the in-house expertise to operate an adequate security policy.

- Zyxel does not offer resellers a way to upgrade the customer network at a performance level. Cisco wider range of product – upgrade path with the 800 and 1700 Series.

- Though Zyxel claims ease of use, the Cisco series offers quick, very intuitive set-up and deployment, using a browser-based interface that avoids the need for the installation of additional software.

- The Cisco solutions offer business-class VPN functionality, delivering WAN-equivalent capabilities and lower operating costs.

- Cisco is a global brand, with the resources to deliver world-leading service and support. With the Cisco SOHO 9x series and the Cisco IOS™, users are deploying the technology at the heart of the Internet itself.

- Cisco offers a wider product portfolio including a range of access routers, switches, wireless systems and security devices.

Hardware and memory	Cisco SOHO 9x Series	Zyxel 650 series
Form Factor	246mm (L) x 216mm (D) x 51mm (H)	206mm(L) x 161mm(D) x 51mm(H)
Weight	0.67/0.68 kg	510g (without wireless LAN card)
Physical Interface	10-Base-T Ethernet (831) ADSL over POTS (837) 4-port 10/100-Base-T with auto-sensing MDI/MDX	One RJ-11 port or RJ-45 port for ADSL connection One RJ-45 connectors for an IEEE 802.3u 10/100M LAN connection One PCMCIA Slot for Wireless LAN Card connection (Prestige650HW only)
Power requirement	Universal 100-240 VAC AC input voltage: 100 to 250 VAC, 50 to 60 Hz Power supply rating: 15 Power consumption: 6 to 10W (idle-maximum consumption)	12VAC AC input voltage: 100 to 120 VAC, 200 to 240VAC Frequency ± 3 Hz Power consumption <= 12W
Operating Environment	Nonoperating temperature: -4 to 149°F; (-20 to 65°C) Nonoperating humidity: 5 to 95%, relative humidity (noncondensing) Nonoperating altitude: 0 to 15,000 ft . (0 to 4570m) Operating temperature: 32 to 104°F; (0 to 40°C) Operating humidity: 10 to 85%, relative humidity (noncondensing) Operating altitude: 0 to 10,000 ft (0 to 3000m)	Temperature: 0-50°C Humidity: 20-95% (non- condensing)
Optional Parts		Microfilter, POTS Splitter, Wireless LAN Card (Prestige 650HW only) 2-Year Warranty
Networking — ADSL Compliance	ST-Micro DynaMiTe ADSL Chipset, T1.413 ANSI ADSL DMT issue 2 G.992.1 ITU G.DMT support G.992.2 ITU G.Lite support G.992.3 ITU G.hs ADSL type negotiation No interoperability with CAP-based ADSL lines	Multi-Mode ADSL Standard - RADSL (DMT T1.413 Issue 2) - G.dmt (ITU G.992.1) - G.lite (ITU G.992.2) - G.hs (ITU G.994.1) ADSL over ISDN - G.dmt (ITU G.992.1 Annex B) Auto-negotiating rate adaptation
ATM Protocols		ADSL physical layer support ATM Adaptation Layer Type5 (AAL5) Multiple Protocol over AAL5 (RFC 1483) VC and LLC based multiplexing, ATM Forum UNI3.1/4.0 PV Up to 8 PVCs Virtual Circuit Traffic Shaping- UBR,CBR OAM F4/F5
PPP Support		PPP (RFC 1661) PPP over AAL5 (RFC 2364) PPP over Ethernet (PPPoE, RFC 2516) Call Scheduling
Bridging	PPPoE Transparent Bridging IP Hostname Entry for some Cable services	IEEE 802.1d transparent bridging Up to 128 MAC learning addresses
Internet Access Sharing	NAT Many to One (PAT) NAT Many to Many (Multi-NAT) IPCP Address Negotiation DHCP Client Address Negotiation	Router only - SUA /Multi-to-Multi NAT NAT supports PAT and multimedia applications, eg NetMeeting, ICQ, CuSeeMe, IPSec, etc.
Routing Protocols	IP Enhanced IGRP RIP, RIPv2 and Static Route.	IP Routing RIP1, RIP2 and Static Route IP Alias DHCP server and DHCP Client DNS Relay IP Policy Routing IGMP for IP Multicast
Management	Cisco Router Web Setup Tool Easy VPN Remote SNMP, Telnet, Console Port Syslog NTP Client and Server TFTP Client and Server DHCP Client and Server DHCP Relay	Web-based Graphical User Interface for easy installation and management Menu-driven user interface for text-based management Text-based management accessible via telnet TFTP and FTP for firmware upgrade configuration backup and restore SNMP MIB support
Security — Security	Route and Router Authentication PAP, CHAP, Local Password GRE Tunneling IP Basic and Extended Access Lists Stateful Inspection Firewall IPSec 56-Bit Encryption IPSec 3DES Encryption Multi-user IPSec Pass-through (TCP & Un-encapsulated) Multi-user PPTP Pass-through RADIUS TACACS + Fast Switching STAC Compression	Packet Filtering for controlled access to and from the LAN PAP, CHAP and Microsoft CHAP