

ZyXEL



DSL Access Guide



DSL Access Routers

ZyXEL is a leading manufacturer and supplier of DSL and Voice over IP routers. ZyXEL offer a complete portfolio of routers suited for Telecoms providers, Internet Service Providers and consumers. As cost of ownership has never been lower, DSL routers are now the preferred solution for Internet access for business and residential markets.

ZyXEL offer more than just a product, we offer a solution. The Prestige DSL router family benefits providers and resellers enabling them to offer:

- Reduced time to market
- Customised solutions
- Feature rich devices
- Value added services
- Excellent support
- UK Innovation

DSL lines are increasing daily; Telecoms providers are deploying DSL services nationwide. As download speeds and bandwidth increase and costs reduce, the possibility of delivering services such as streaming media, multi-media, and TV programs are now a reality.

Fitting your requirements

ZyXEL recognise that easy installation with UK factory-installed settings benefit both service providers and improve their customer experiences by eliminating the time and technical expertise required to set up the routers. Local knowledge within the UK allows ZyXEL to proactively and reactively respond to market requirements and ensure the provider receives the best possible support for their customers. The Prestige ADSL Solution fully complies with ANSI T1.413 Issue, ITU-T G.992.1 (G.DMT) and G.992.2 (G.Lite) ADSL standards for UK deployment, and have been verified by undergoing extensive interoperability testing with major DSLAM providers.

Prestige ADSL Router Family

660R ADSL Router

Residential / SOHO broadband ADSL router providing NAT with UPnP support. Zero Touch configuration. NAT, PPPoA, PPPoE Termination. 1 x 10/100 Ethernet LAN connectivity.



660H 4x10/100 ADSL Router with Firewall

Residential / SOHO broadband ADSL router with built in Stateful Packet Filtering Firewall, NAT, UPnP, NAT, PPPoA, PPPoE Termination. 4 x 10/100 Ethernet LAN connectivity.



660HW 108Mbps Wireless 4 x 10/100 ADSL Router with Wireless

Residential / SOHO broadband ADSL router with built in Stateful Packet Filtering Firewall, up to 108Mbps (802.11g, g+) Wireless Access Point, WEP / WPA, UPnP, NAT, PPPoA, PPPoE Termination. 4 x 10/100 Ethernet LAN connectivity.



662HW 108Mbps Wireless 4 x 10/100 ADSL Router with Firewall and 20 Tunnel VPN

Residential / Small Corporate broadband ADSL 4 x 10/100 router with built in Stateful Packet Filtering Firewall, up to 108Mbps (802.11g,g+) Wireless AP, WEP / WPA. NAT, PPPoA, PPPoE Termination. VPN Termination supporting up to 20 IPSEC Tunnels. Anti-Virus service support.



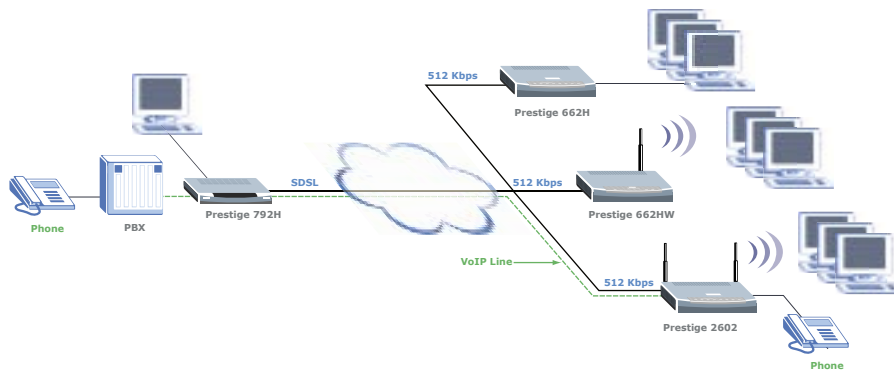
663HWI Wireless-Ready 4 x 10/100 Resilient ADSL Router with Firewall, 20 Tunnel VPN and ISDN Backup

SOHO / Small Corporate broadband ADSL 4 x 10/100 router with built in Stateful Packet Filtering Firewall. Wireless AP, WEP. NAT, PPPoA, PPPoE Termination. VPN Termination supporting up to 20 IPSEC Tunnels. Integrated ISDN backup port for resilient applications



From Office to Home

Symmetrical DSL (SDSL) services have now become a direct competitor to leased line and frame relay services traditionally offered by Telecom operators. ZyXEL Prestige SDSL routers apply this technology at an affordable price whilst proving feature rich services. For business customers, a popular solution is the Headquarters use an SDSL service for their internet connection whilst ADSL is used for Branches and SOHO users.



Voice over IP (VoIP) technology has become the killer application for Internet Service Providers to challenge established telecom operators. VoIP not only offers huge savings on communications costs for users, but also helps service providers generate new revenue, attract new subscribers and become more dominant in the market.

As broadband industry leader, ZyXEL has developed a new generation of VoIP technology. ZyXEL offers complete, fully featured VoIP DSL Internet access routers to fulfill the needs of IP Telephony service providers and their customers.

ZyXEL's VoIP products offer crystal-clear voice quality, high integrated functionality and the flexibility for customisation. As a result, ZyXEL's VoIP products are ideal solutions for the Telecoms operators, Internet Service Providers, business and residential consumers.

Prestige SDSL

792H 4 x 10/100 SDSL Router with Firewall and 10 Tunnel VPN

SOHO / Small Corporate broadband router supporting Symmetrical DSL with built in Stateful Packet Filtering Firewall. NAT, PPPoA, PPPoE Termination. VPN Termination supporting up to 10 IPSEC Tunnels. 4 x10/100 Ethernet LAN connectivity.



Prestige ADSL VoIP Family

2602HW 4 x 10/100 Wireless ADSL VoIP Router with Firewall and 20 Tunnel VPN

Residential / Small Corporate broadband ADSL router with built in Stateful Packet Filtering Firewall, up to 108Mbps (802.11g,g+) Wireless AP, WEP / WPA. UPnP, NAT, PPPoA, PPPoE Termination. VPN Termination supporting up to 20 IPSEC Tunnels. 2 Analogue Voice ports supporting G.711 & G.729a/b.



2602HWL 4 x 10/100 Wireless ADSL VoIP Router with Firewall, 20 Tunnel VPN and PSTN LifeLine

Residential / Small Corporate broadband ADSL router with built in Stateful Packet Filtering Firewall, up to 108Mbps (802.11g,g+) Wireless AP, WEP / WPA. UPnP, NAT, PPPoA, PPPoE Termination. VPN Termination supporting up to 20 IPSEC Tunnels. 2 Analogue Voice ports supporting G.711 & G.729a/b. Lifeline support provides emergency voice backup via analogue PSTN.



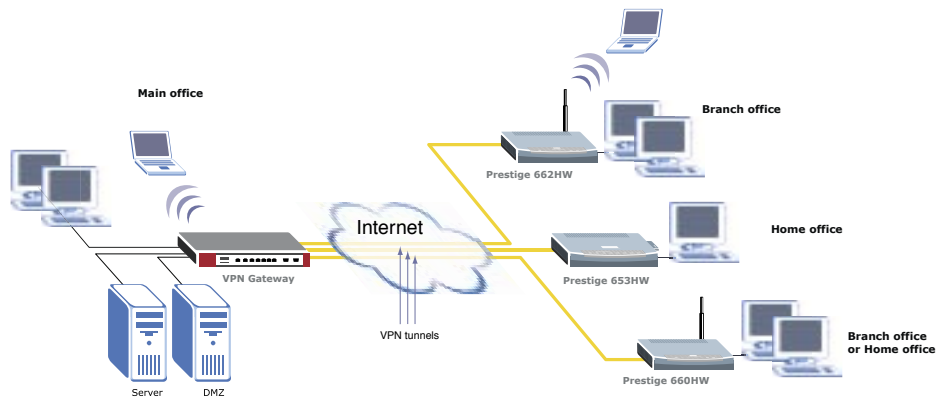
Adding Value to your solution

Computer viruses are a real threat to the home or office user. Viruses can show us how vulnerable user's computer can be. A properly engineered virus can have a tremendous impact on the worldwide Internet. ZyXEL can provide virus protection integrated with the Prestige 662HW ADSL router. Based on automatic signature updates, it provides real-time network protection against viruses and protects clients that are not already equipped with Anti-Virus technology. The following ports are protected by the Anti-Virus engine:

- • HTTP.(Hyper Text Transfer Protocol) via TCP port 80
- • SMTP (Simple Mail Transfer Protocol) via TCP port 25
- • POP3 (Post Office Protocol) via TCP port 110
- • FTP (File Transfer Protocol) via TCP port 21

Virtual Private Networks are a very important consideration in SOHO or office based businesses. ZyXEL routers* adopt a hardware-based DES/3DES accelerator which enhances VPN performance supporting standards based IPSec VPN, suitable for site-to-site and remote access deployment. Data encryption over the Internet ensures secure transmission of data between two sites, and can be used to replace a private leased line or frame relay network, allowing global interconnectivity at a minimal expense.

Robust Firewall Security is very important to ZyXEL. The Stateful Packet Inspection (SPI) firewall has evolved through generations of DSL product and is the most secure yet. With the inclusion of Denial of Service (DoS) protection, "always on" services are no longer an easy target for hackers and network intruders.



* 653HWI / 662HW only

SONY
MP3 PLAYER
600 SERIES

DSL

Power and Scalability

Centralised Network Management is very much a hot topic in the broadband space. ZyXEL are at the forefront of developing new ways to securely and effectively manage DSL routers. ZyXEL's Vantage CNM is a browser-based, global management solution that allows an administrator to easily configure, manage, monitor and troubleshoot ZyXEL DSL routers from any location.

Vantage CNM allows you to effectively separate usage and management of ZyXEL's comprehensive range of devices.



With the remote management feature, system integrators, IT consultants or administrators can remotely manage devices, thus reducing the configuration and administration hassles associated with managing multiple devices. The Vantage administrator will always be able to provide end users with first class support, whether the need is to decipher a log, to upload new firmware, or to create new VPN tunnels. Device owners will be able to efficiently use their devices without worrying about how they work.

Furthermore, by using Vantage, an administrator can ensure consistency and compliance with all security policies, constantly monitor all devices and provide immediate support and deliver services to their routers effectively on a large scale.

These combined features allow for the rapid deployment of ZyXEL devices, minimizing the cost of management and maximising device efficiency.

Gaining Pace with Wireless 108

With ZyXEL **Wireless g+** SuperSpeed Technology, achieve actual throughput rates of up to 35Mbps, 700% faster than the conventional 802.11b standard. Compatible with IEEE802.11g/11b, ZyXEL's DSL routers allow users to enjoy Internet resources, access e-mails; and deliver large files, MP3s or videos with easy and safe high-speed wireless connections.

Enhanced Wireless Security is a big concern for everyone who wants to create a wire free network. To prevent hackers from exploiting the wireless network ZyXEL have enhanced their Wireless DSL router offering. In addition to basic 64/128/256-bit WEP encryption, ZyXEL DSL routers feature the latest, enhanced wireless security mechanisms such as 802.1x authentication and Wi-Fi Protected Access (WPA, WPA-PSK TKIP). These enhanced security functions only allow authorized users to access the network and thus further protect your data from being tapped during wireless transmission.

Cost-Effective Wireless ADSL router and Wireless card bundles are available, ensuring that the user can utilise the Wireless 108 technology and guarantee interoperability between the clients and the DSL router.

PWR

SYS

1/DMZ

2

LAN

3

4

WLAN

USB

PRESTIGE

SECURITY COMPASS

ZyXEL Prestige DSL Routers

	Prestige 660R	Prestige 660H	Prestige 660HW	Prestige 662HW
FEATURES				
ADSL	●	●	●	●
SDSL				
LAN	1 Port	4 Ports	4 Ports	4 Ports
FIREWALL		●	●	●
ISDN BACKUP				●
ALTERNATIVE BACKUP				
VPN TERMINATION				20 Tunnels
WIRELESS			●	●
QoS (ToS/DiffServ)				●
ANTI-VIRUS				●

	Prestige 792H	Prestige 653HWI	Prestige 2602HW	Prestige 2602HWL
FEATURES				
ADSL		●	●	●
SDSL	●			
LAN	4 Ports	4 Ports	4 Ports	4 Ports
FIREWALL	●	●	●	●
ISDN BACKUP		●		
ALTERNATIVE BACKUP	●		●	●
VPN TERMINATION	10 Tunnels	20 Tunnels	20 Tunnels	20 Tunnels
WIRELESS		●	●	●
QoS (ToS/DiffServ)			●	●
ANTI-VIRUS			●	●
VOICE FEATURES				
ANALOGUE VOICE PORTS			2	2
SIP SUPPORT			●	●
SDP			●	●
RTP			●	●
RTCP			●	●
CODEC			G.711/G729a/b	G.711/G729a/b
PHONE BOOK			●	●
DTMF DETECTION			●	●
G.168 ECHO CANCELLATION			●	●
PSTN VOICE BACKUP				●