ZyXEL

Secured Communication for Small Businesses

- **Robust firewall and VPN to secure business communications**
- **Multi-WAN connectivity with load balancing and failover**
- **Comprehensive authentication for safe, efficient management**
- **Combo WAN-in-a-box to optimize the CAPEX of FTTH/VDSL2 deployments**
- **G. vectoring to maximize effective range for service providers**
- **Extreme routing performance to take advantage of FTTx applications**
- **Five Gigabit ports and 802.11n for superior LAN networking**

Benefits

Robust firewall and VPN to secure business communications

The ZyXEL SBG3300-N Series applies ACL rules, Stateful Packet Inspection (SPI), Denial of Service (DoS) and DDoS features for first-line defense against hackers, network intruders and other harmful threats. A configurable DMZ provides more flexible accessibility while preventing external attacks on confidential databases.

The SBG3300-N Series additionally features IPSec VPN which empowers companies to provide secure connections to branch offices, partners, road warriors and telecommuters. They can use L2TP or PPTP VPN to safely access corporate networks without having to install VPN software.

Multi-WAN connectivity with load balancing and failover

The ZyXEL SBG3300-N Series includes multiple WAN interfaces for DSL, Ethernet and USB 3G/4G adapters to establish WAN backups or load balancing. The WAN backup provides contingency in case the primary line or ISP suffers temporary outage. When the primary line of normal services is restored, all traffic resumes normal activity. This function enables highly reliable connectivity and flexibility in multiple applications.

Comprehensive authentication for safe, efficient management

The ZyXEL SBG3300-N Series offers a two-level login mechanism to differentiate user segments. The ISP can also define the policies for the limited accounts to easily manage them with the integrated profile database.

11n for superior performance and coverage

The ZyXEL SBG3300-N Series Wireless N VDSL2 Combo WAN Small Business Security Gateway featuring 802.11n technology provides the ultimate solution for exceptional security, speed, and coverage.

The SBG3300-N Series offers a Web authentication portal for easy management of Internet access. Multiple SSIDs and guest/limited wireless accounts allow companies to protect sensitive data by separating public Internet access from a company's private LAN. With the guest SSID feature, it's easy to share wireless connectivity without compromising security; guests are allowed to access only unsecured data.

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SBG3300-N Series
Wireless N VDSL2 Combo WAN Small Business Security Gateway

Dual WAN | Load Balancing | Ethernet 10/100/1000 Mbps | VPN | IPv6 | Wi-Fi CERTIFIED | VPNC CERTIFIED Basic Interop | VPNC CERTIFIED AES Interop

Specifications

System Specifications

VDSL Compliance
- G.993.1 VDSL Annex A
- G.993.2 VDSL2 band plan Annex A, Annex B
- G.994.1 (G.hs) Handshake, G.997.1
- Supports VDSL profiles up to 17a
- Seamless Rate Adaption (SRA)
- INP: Up to 16 symbols
- G.INP, G.Vector
- PhyR configurable

ADSL Compliance
- G.992.1 (G.dmt), G.992.2 (G.lite) Annex A, B
- G.992.3 (ADSL2), G.992.5 (ADSL2+) Annex A, B
- Reach-Extended ADSL (RE ADSL)
- Seamless Rate Adaptation (SRA)
- PPP over ATM AAL5 (RFC2364)
- Supports VC-based and LLC-based multiplexing
- ATM traffic shaping (CBR, VBR-rt/nrt, UBR)
- PhyR configurable

WLAN
- Two external 3 dbi detachable antennas
- IEEE 802.11 b/g/n compliance
- WMM for QoS configuration of each SSID
- Multi SSID: Up to 4
- Hidden SSID support
- Guest Wi-Fi access
- Web portal for terms of service
- WPA/WPA2-PSK with TKIP & AES
- WPA/WPA2-enterprise, supports EAP-MD5/ TLS/TTLS
- 32 MAC filter
- Wireless scheduling
- High gain power option for specific regions

High Availability WAN
- Three WAN interface (VDSL, Ethernet and mobile USB) options
- User configurable multi-WAN load balancing with one WAN for failover/fallback

Bridge/Router
- Dynamic learning for up to 2014 MAC address
- PPPoE, PPPoA, IPoE, IPoA (RFC 1483)
- DHCP client/server/relay
- DHCP option 43/60/61/125
- DNS proxy, DDNS
- RIP I/RIP II supported
- UPnP
- Static/Policy route
- Adjustable MTU size (max 1518 byte)
- QoS classification route, queueing and scheduling
- Interface grouping
- IPv6 support

VPN
- Simple wizard support (Express wizard)
- 20 concurrent IPSec VPN tunnels (Can set up to 35)
- IPSec, PPTP and L2TP over IPSec VPN
- Dead peer detection/replay detection
- IPSec HW engine
- Algorithm: AES (128/192/256)/3DES/DES
- Authentication: SHA-1/MD5
- VPN failover/fallback

Firewall & Security
- Full cone NAT/symmetric NAT/restrict cone NAT, NAT ALGs
- 16000 NAT sessions supported
- Virtual server (port forwarding)
- Configurable DMZ
- PPTP/IPSec/L2TP pass through
- PAP/CHAP/MS-CHAP v1 and v2
- Stateful packet inspection
- DoS/DDoS protection
- URL/key word filtering
- Access control: up to 256 ACL rules
- Report via Syslog, GUI, email daemon

USB
- Two USB 1.1/2.0 ports
- FTP file sharing
- Supported file system: FAT16/32, EXT2/3
- Support mobile broadband dongle
- 3G budget control

Management
- 2-tier log in
- Login privilege
- Dual image
- Text based configuration (XML based)
- Configurable access control for remote management
- Supports TR-069, TR-098, TR-064 and TR-111
- SNMP v1, v2c
- Centralized log
- User management (user data base/profile)

Hardware Specifications
- LED: Power, LAN 1 - 4, Ethernet WAN, DSL, Internet, USB 1/2, WLAN
- One RJ-11 DSL port over POTS (Annex A), over ISDN (Annex B)
- WLAN button
- Power consumption: 18 Watt max.
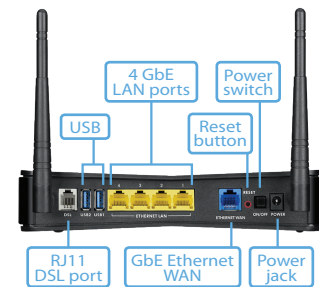
Physical Specifications
- Item dimensions (WxDxH): 210 x 115 x 33 mm (8.27" x 6.06" x 1.57")
- Item weight: 495 g (1.09 lb.)
- Packing dimensions (WxDxH): 270 x 255 x 65 mm (10.63" x 10.04" x 2.56")
- Packing weight: 1,100 g (2.43 lb.)

Environmental Specifications

Operating Environment
- Temperature: 0°C to 40°C (32°F to 104°F)
- Humidity: 20% to 95% RH (Non-condensing)

Storage Environment
- Temperature: -30°C to 60°C (-22°F to 140°F)
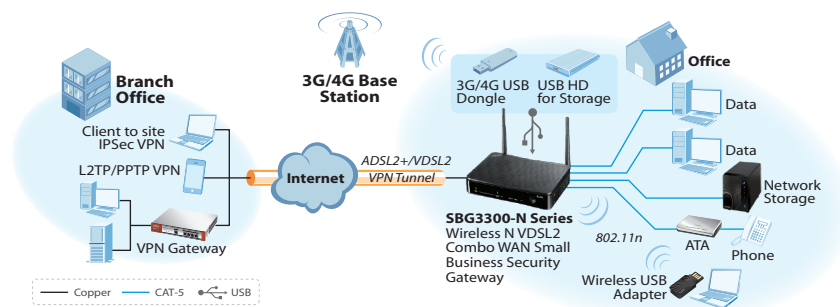- Humidity: 10% to 95% (Non-condensing)

Certification

CE
- EN60950-1, IEC60950-1

FCC Part 15 Class B

* The maximum wireless data transfer rate is derived from IEEE Standard 802.11 specifications. Actual data transfer rate will vary from network environment including: distance, network traffic, building site materials/construction, interference from other wireless devices, and other adverse conditions.

Application Diagram