ZyXEL

Secured Communication for Small Businesses

- **11n (2x2) for superior performance and coverage**
- **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**

Benefits

11n (2x2) 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 speed and coverage.

The SBG3300-N Series features a Web authentication portal for users who try to access the Internet for easy management. In addition, multiple SSIDs and guest/limited wireless accounts allow companies to separate public Internet access from private LAN. With guest SSID feature, it's easy to share wireless environments without security concern; guests can be allowed to only access the database with permission to ensure that confidential information won't be disclosed.

Robust firewall and VPN to secure business communications

Based on ACL rules, Stateful Packet Inspection (SPI), Denial of Service (DoS) and DDoS features, the ZyXEL SBG3300-N Series provides the first-line defense against hackers, network intruders and other harmful threats. Configurable DMZ is another benefit that provides more flexible accessibility while preventing external attacks toward the confidential database.

Besides, the SBG3300-N Series allows companies to establish VPN connections with business partners as well as remote and branch offices. AS IPSec VPN empowers companies to secure connections to branch offices, partners and headquarters, road warriors and telecommuters can use L2TP or PPTP VPN to safely access corporate networks without having to install VPN software. The SBG3300-N Series provides a flexible, easy way to enable mobile employees, vendors and partners to confidentially access network resources for better efficiency.

Multi-WAN connectivity with load balancing and failover

The ZyXEL SBG3300-N Series has multiple WAN interfaces for DSL, Ethernet and USB 3G dongles to establish WAN backups or load balancing. The WAN backup provides contingency in case the primary line or ISP suffer temporary outage. When the primary line of normal services is restored, all traffics are switched back. This function enables highly reliable connectivity and flexibility in different applications.

Comprehensive authentication for safe, efficient management

The ZyXEL SBG3300-N Series offers a two-level login privilege 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.

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

Dual WAN   Ethernet 10/100/1000 Mbps   Load Balancing   VPN   IPv6   3G Backup   WiFi 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
- Support VDSL profiles up to 17a
- Rate adaption
- 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)
- SRA
- PPP over ATM AAL5 (RFC2364)
- Support VC-based and LLC-based multiplexing
- ATM traffic shaping (CBR, VBR-rt/nrt, UBR)
- PhyR configurable

WLAN
- Two external 3 dbi detachable antenna
- 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, support EAP-MD5/ TLS/TTLS
- 32 MAC filter
- Wireless scheduling

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 (RFC 2516), PPPoA (RFC 2364)
- DHCP client/server/relay
- DHCP option 43/60/61/121/125
- 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)
- Concurrent 20 IPSec VPN tunnels (Could be 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

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
- Content 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

Management
- 2-tier log in
- Login privilege
- Dual image
- Text based configuration (XML based)
- Configurable access control for remote management
- Support TR-069, TR-098, TR-064 and TR-111
- SNMP v1, v2c
- Rom-D support
- 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.

4 GbE LAN ports
Power switch
USB
Reset button
RJ11 DSL port
GbE Ethernet WAN
Power jack

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)
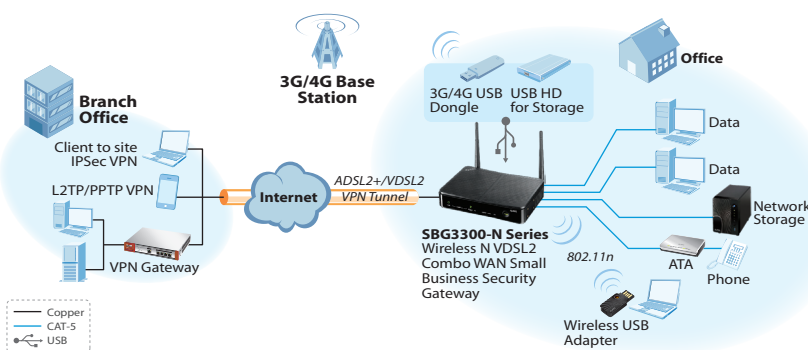- Humidity: 10% to 95% (Non-condensing)

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

3G/4G Base Station

Branch Office

Client to site IPSec VPN

L2TP/PPTP VPN

VPN Gateway

Internet

ADSL2+/VDSL2 VPN Tunnel

3G/4G USB Dongle
USB HD for Storage

Office

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

Data
Data
Network Storage
ATA
Phone

802.11n

Wireless USB Adapter

Copper
CAT-5
USB

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