



# Intelligent, Functional and Effective Gateways for Small Business Applications



Application Guide

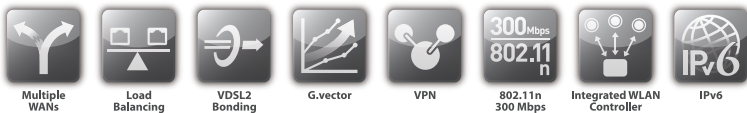
## Small Business Gateway Series



# Easy Installation and Management with Streamlined Support Available Anytime



ZyXEL's small business gateway (SBG) is the ultimate solution for small businesses with multiple offices to support remote and home-based workers for reliable security, speed and coverage across different sites. The affordable SBG features various Internet interfaces to enhance network performance while reducing running costs and ultimately enable small businesses to communicate effectively.



Model	SBG3300-N	SBG3500-N	SBG3600-N
Multi-WAN	DSL, GbE, 3G/4G dongle	Fiber/GbE, DSL, 3G/4G dongle	Embedded LTE, Fiber/GbE, DSL, 3G dongle
STD	VDSL/ADSL2+ single line	VDSL/ADSL2+ 17a bonding	VDSL/ADSL2+ 17a bonding
USB 2.0 port	2	1	1
Wired throughput	800 Mbps	800 Mbps	800 Mbps
VPN throughput*	40 Mbps	40 Mbps	40 Mbps
Wireless	802.11n, 300 Mbps	802.11n, 300 Mbps	802.11n, 300 Mbps
Embedded AP controller	-	Yes	Yes

\* VPN throughput is based on RFC 2544 (1,424-byte UDP packets)

# A Flexible, Cost-effective Small Businesses Solution

## Small Business Applications

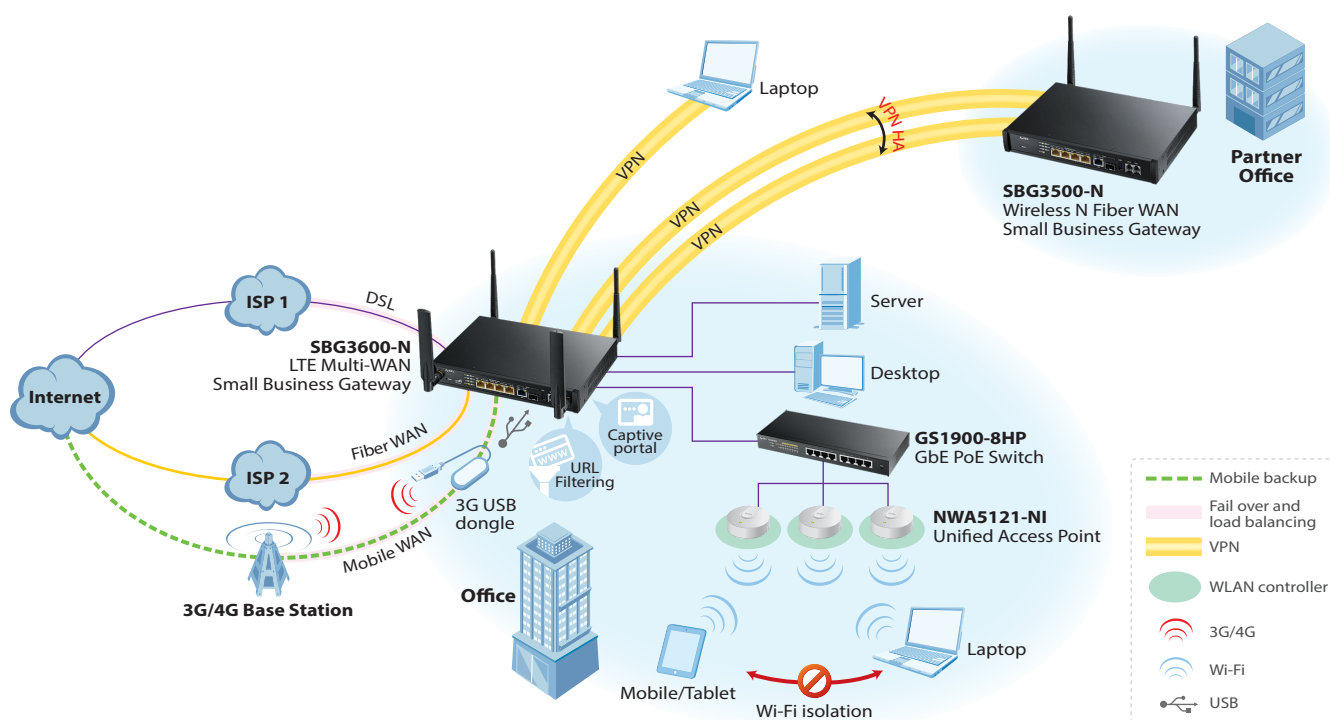
For smaller businesses and organizations concerning about costs and complexity of multi-application networks, ZyXEL's SBG Series provides a low-TCO total solution for users to build a complete platform with high security and productivity. The SBG Series integrates network security, multiple WAN back up, AP controller and VPN connection functions to meet every business needs.

On Internet user management and security, ZyXEL SBG Series provides a captive Web authentication portal, Wi-Fi isolation and URL filtering features to ensure network security. A captive portal is a Web page that access network members are obliged to view and interact with before their access privileges can be granted; it helps the IT staff to manage users accessing the Internet and their usage status. Wi-Fi isolation prevents connected wireless devices from establishing connection with other counterparts; likewise, this protects computer networks against invasion attempts by isolating individual devices. URL filtering not only provides additional defense to deter today's evolving

Internet threats, but also blocks inappropriate sites to increase employee productivity.

To small businesses deploying stable mobile connectivity solutions, access point controllers have become a favorable choice. The ZyXEL SBG Series provides scalable, feature-rich Wireless LAN solutions for businesses to easily scale up their Wi-Fi networks with less investment and management efforts, while ZyXEL's Wireless AP Series helps users configuring wireless policy, management and security settings through centralized provisioning and management as AP controller applications are now widely available everywhere in offices, meeting rooms and guest reception areas.

The ZyXEL SBG Series also offers a flexible, easy-to-use and easy-to-manage Virtual Private Network (VPN) solution for remote partner offices or mobile users. To ensure confidentiality and continuity, the VPN functions of ZyXEL's SBG Series support High Availability (HA) failover to provide an "always online" Internet connection.





### Performance Features

- Multiple WAN
  - DSL and fiber backup
  - Fail over
  - Load balancing
  - Future-proof VDSL2 vectoring technology
- AP controller
  - WLAN controller
  - IEEE 802.1X authentication
  - RADIUS authentication
  - Wi-Fi Multimedia (WMM) wireless QoS
  - CAPWAP discovery protocol
- VPN
  - Client to site/mobile to site/site to site
  - VPN HA
  - Hardware accelerated VPN
- Security
  - URL/key word filtering
  - Wi-Fi isolation
  - Captive portal

### Application Benefits

- Lower initial investment on equipment procurements
- Less configuring and maintaining efforts on multiple devices
- Scalable license-based Wi-Fi AP management for more flexibility
- Increased overall network throughput and resilience
- Securely encrypted connection over the Internet
- VPN connection is constantly available
- Total control and secure global application delivery
- Increased employee productivity (e.g. gaming site blocking)
- Bandwidth regulation (e.g. download site limitation)



# In-house Working Solution for Maximized Performance and Comprehensive Incorporated Functionalities

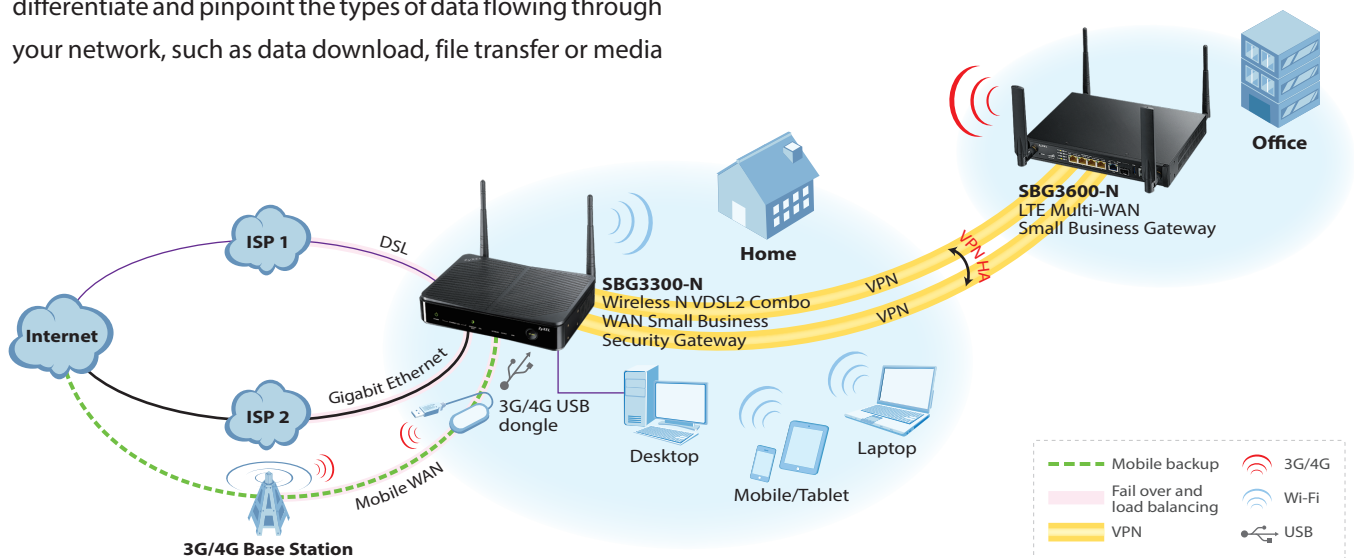
## In-house Staff Applications

In-house staff network deployments usually face common challenges: limited budgets for heavy Internet application demands. ZyXEL's SBG Series provides a solution incorporating comprehensive business functionalities like firewall, VPN, Wireless LAN as well as multiple WAN interfaces that includes DSL, fiber and mobile broadband backup to ensure non-stop connectivity for small businesses to maximize performance.

The multi-WAN function with load balancing capability can differentiate and pinpoint the types of data flowing through your network, such as data download, file transfer or media

streaming; this makes ZyXEL SBG Series an excellent choice for multimedia conferencing or other important online activities.

One of the most important features designed for the in-house staff is the ability to maintain confidential, continuous business communication among companies. The VPN functions of ZyXEL SBG Series supports High Availability (HA) failover to make reliable "always online" Internet connection possible.



### Performance Features

- All-in-one box
  - Firewall
  - Wireless LAN
  - Mobile connection backup
- Multiple WAN
  - DSL and mobile backup
  - Load balancing
- VPN
  - Client to site/mobile to site
  - Hardware-accelerated VPN
- VPN
- Multiple WAN
- Fail over
- VPN HA

### Application Benefits

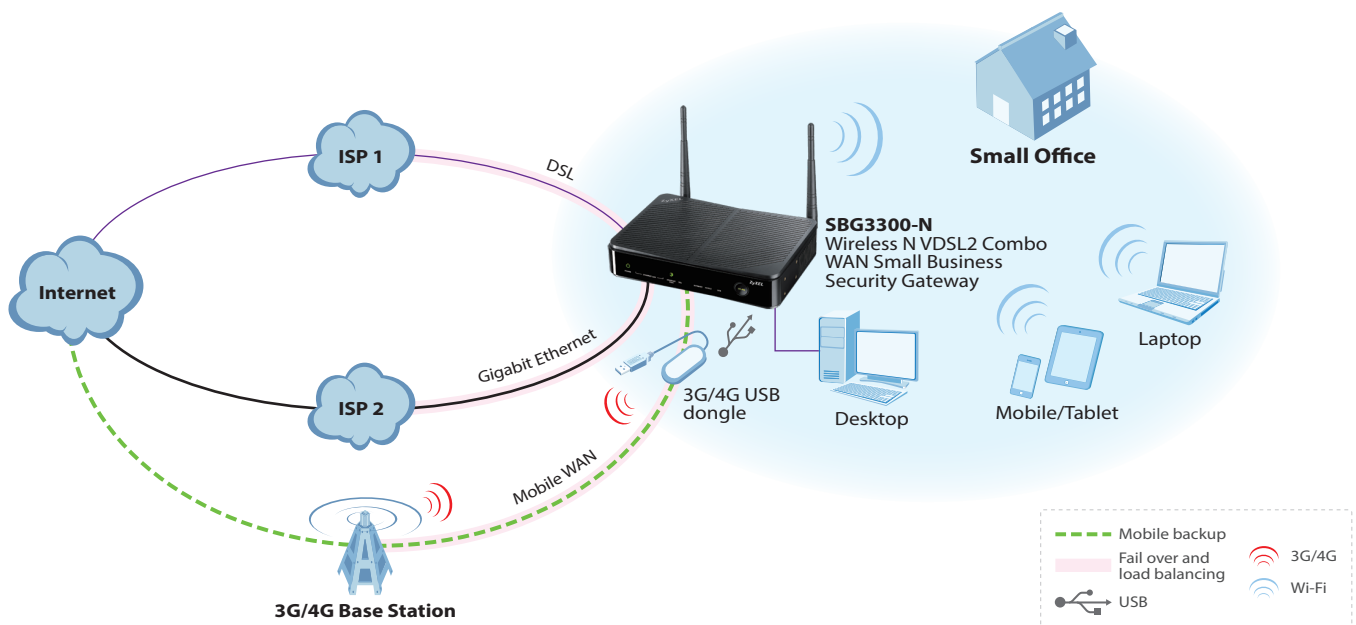
- Lower initial investment on equipment procurements
- Flexible mobile broadband backup as a WAN alternative to increase availability
- Smooth, highly reliable network connectivity
- Non-stop Internet connection for improved networking experience
- Secure, encrypted connection over the Internet
- VPN connection is constantly available

## SOHO Solutions for Higher Productivity and Non-stop Access

### SOHO Applications

Is there a one-box total solution providing versatile yet necessary functions for Small Office Home Office (SOHO) networks? ZyXEL's SBG Series is a complete productivity platform for organizations in the form of an all-in-one SOHO Router that includes functions such as firewall, VPN, Wireless LAN and multiple WAN interfaces for backup mobile connections.

With built-in multiple WAN access interfaces like DSL, GbE/ Fiber (SFP optional) and 3G/4G mobile WAN supporting load balancing and fail over, the ZyXEL solution guarantees you a high-performance, high-availability network and non-stop Internet access uptime with multi-WAN and mobile broadband support. In short, it offers users a crucial "always on" Internet connection.



#### Performance Features

- All-in-one box
  - Firewall
  - Wireless LAN
  - Mobile connection backup
- Multiple WAN
  - DSL and mobile backup
  - Load balancing
  - VPN
  - Multiple WAN
  - Fail over

#### Application Benefits

- Lower initial investment on equipment procurements
- Flexible mobile broadband backup as a WAN alternative to increase availability
- Smooth, highly reliable network connectivity
- Non-stop Internet connect for improved networking experience

