ZyXEL

Assured Superior 802.11n Wi-Fi Performance

- **2.4 GHz 11n (2x2) for superior performance and coverage**
- **Configurable EtherWAN for optimized, evolutionary services**
- **Remote provisioning and management through TR-069**
- **Advanced QoS to ensure quality of Triple Play**
- **ROM-D feature for easy distributor/operator customization**
- **Always-online, always-compatible alternative 3G connection**

ZyXEL green

AMG1312-T10B
**Wireless N ADSL2+
4-port Gateway with USB**

Benefits

2.4 GHz 11n (2x2) for superior performance and coverage
The ZyXEL AMG1312-T10B Wireless N ADSL2+ 4-port Gateway with USB features 802.11n technology to achieve data rates of up to 300 Mbps to provide stable, reliable wireless connections for high-speed data and multimedia delivery. The AMG1312-T10B is capable of eliminating dead zones and extends coverage, and it's also backward compatible with any IEEE 802.11 b/g Wi-Fi certified device. The AMG1312-T10B supports multiple SSIDs with individual security and scheduling settings to facilitate different service levels for service providers.

Configurable EtherWAN for optimized, evolutionary services
The ZyXEL AMG1312-T10B Wireless N ADSL2+ 4-port Gateway with USB offers configurable EtherWAN by using an Ethernet LAN port as a WAN access interface.

For DSL network environments or infrastructures with FTTC/FTTB in combination with Ethernet, SP can deploy broadband services in different scenarios with the same device. Not just logistically optimized, the device also simplifies service deployment trainings and optimizes the CAPEX and OPEX for lower total cost of ownership to take advantage of the copper-to-fiber evolution.

Quality of Service (QoS) support
The ZyXEL AMG1312-T10B comes equipped with essential ATM QoS features. Service providers can freely design their QoS policies and prioritize mission-critical services such as IPTV and VoIP based on their service plans. This increases network efficiency and productivity that enable service providers to bring real multi-play services to the daily life of residential users.

Easy customization with ROM-D function
Service Providers need to have a quick, easy way to customize and manage different firmware versions before networking devices are distributed to fulfill specific requirements from different customers. The ZyXEL AMG1312-T10B features ROM-D to provide the flexibility for service providers to change default configuration settings easily through just uploading of a new customized configuration file.

Always-online, always-compatible alternative 3G connection
The ZyXEL AMG1312-T10B features optional 3G connectivity as a failover (or alternative) connection to 3G mobile broadband networks in case of DSL outage; with which Internet traffics will be temporarily routed through the user's 3G dongle plugged into the USB port. All traffics will be switched back as soon as the regular broadband service becomes available again. It is also efficient to have instant Internet access in remote offices, activities outside of the offices or for occasions where DSL service is temporarily unavailable. The AMG1312-T10B works with most 3G dongles from mobile broadband SPs thanks to the latest 3G compatibility list and frequently revised patch file on the global Web site. Users can simply check and download the patch file to enable mobile broadband services immediately without upgrading the entire firmware of the gateway.

Specifications

System Specifications

ADSL Compliance
- ITU 992.1 (G.dmt)
- ITU 992.3 ADSL2 (G.dmt.bis), ITU 992.5 ADSL2+
- Annex L/M support

WLAN
- IEEE 802.11n compliance, backward compatible with 11b/g
- Frequency operation: 2.4 GHz
- 64/128 bits WEP data encryption
- WPA/WPA2 (Wi-Fi Protected Access) security
- Wireless scheduler
- Wi-Fi Multimedia (WMM)
- Wi-Fi Protected Setup (WPS)

Router
- RFC 1483 - classical IP over ATM (LLC/VCMUX)
- RFC 2684 - bridged IP over ATM (LLC/VCMUX)
- RFC 2684 - IP routing over ATM (LLC/VCMUX)
- Support up to 8 PVCs
- Support integrated ATM AAL5 (UBR, CBR, VBR, VBR-rt, and VBR-nrt)
- NAT
- Port forwarding
- SIP ALG pass-through
- PPPoE pass-through
- Dynamic DNS
- IP alias
- DHCP server/client/relay
- RIP I/RIP II
- IGMPv1/v2/v3
- UPnP support
- 802.1Q/1P
- IPv6 support

USB
- 3G backup
- File sharing

Firewall
- Stateful Packet Inspection (SPI)
- Denial of Service (DoS) prevention

Security
- Multiple VPN (IPSec, PPTP) pass-through
- Packet filtering
- URL keyword blocking

Management
- Embedded Web configuration
- TR-069 HTTPS support
- Logs and statistics
- SNMP v1 and v2 with MIB II
- Remote management control: Telnet, FTP, Web, SNMP and DNS
- CLI command via telnet/console

Hardware Specifications
- ADSL port: 1 x RJ-11
- Ethernet port: 4 x RJ-45
- Power on/off button
- Reset button
- WLAN on/off button
- WPS button
- USB port: One USB 2.0 type A
- Two 3 dBi external antennas
- LED displays:
  - Power
  - Ethernet LAN (1-4)
  - WLAN
  - WPS
  - DSL
  - Internet
  - USB

- Power input: 12 V DC
- Power consumption: 11 watt

Physical Specifications
- Item dimensions (WxDxH): 165 x 142 x 36 mm (6.49" x 5.59" x 1.42")
- Item weight: 243 g (0.54 lb.)
- Packing dimensions (WxDxH): 313 x 212 x 60 mm (12.32" x 8.35" x 2.36")
- Packing weight: 677 g (1.49 lb.)

Environmental Specifications

Operating Environment
- Temperature: 0°C to 40°C (32°F to 104°F)
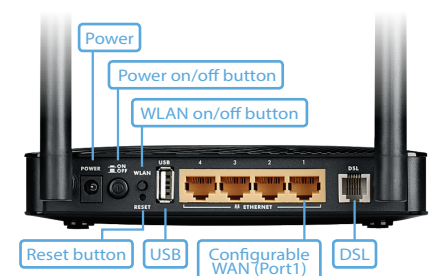- Humidity: 10% to 90% RH (Non-condensing)

Storage Environment
- Temperature: -20°C to 70°C (-4°F to 158°F)
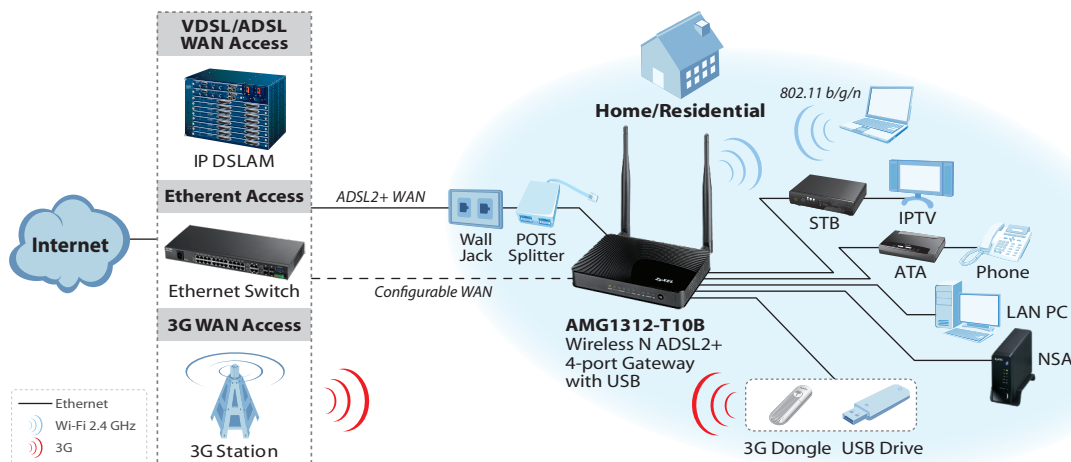- Humidity: 10% to 95% RH (Non-condensing)

Certification
- Safety: EN60950-1
- EMI: CE, FCC

Rear Panel

Power
Power on/off button
WLAN on/off button
Reset button | USB | Configurable WAN (Port1) | DSL

Application Diagram

VDSL/ADSL WAN Access
IP DSLAM
Etherent Access
Ethernet Switch
3G WAN Access
3G Station
Internet
ADSL2+ WAN
Configurable WAN
Wall Jack
POTS Splitter
Home/Residential
802.11 b/g/n
STB
IPTV
ATA
Phone
LAN PC
NSA
AMG1312-T10B Wireless N ADSL2+ 4-port Gateway with USB
3G Dongle   USB Drive
— Ethernet
Wi-Fi 2.4 GHz
3G

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