

ZYXEL



VMG1312-T20B

Wireless N VDSL2 Gateway with USB

The Zyxel VMG1312-T20B is an advanced VDSL2 gateway that provides autosensing between VDSL2 and ADSL2+ for high-speed Internet access. In addition, with supports to G.vectoring, it increases speed and coverage to compete with other broadband technologies without infrastructural change.

The Zyxel VMG1312-T20B integrates an IEEE 802.11 b/g/n access point and a 10/100 Ethernet switch for Local Area Network (LAN) access. It can act as a concentrator or power hub to distribute contents between different devices connected inside the LAN wired and wirelessly. We've also enhanced the WiFi ability to ensure a quality user experience. Users could also leverage the USB interface on the Zyxel VMG1312-T20B for file.



VDSL2 G.vectoring for maximized service coverage



2.4 GHz 11n (2x2) for superior performance and coverage



TR-069/TR-181 issue-2 Remote Management



Advanced QoS to ensure quality of triple-play services

Benefit

VDSL2 Vectoring for maximized service coverage

The Zyxel VMG1312-T20B Wireless N VDSL2 Gateway comes with USB supports to the Vectoring technology that eliminates crosstalk or interference among different VDSL lines. With the mechanism, Vectoring significantly increases bit rates to compete with cable/fiber technologies as well as to enlarge service coverage without changing the current infrastructure — a way to significantly save cost comparing to fiber-to-the-home (FTTH) deployments, and the CAPEX can be optimized by the improved data rates and coverage without upgrading equipment.

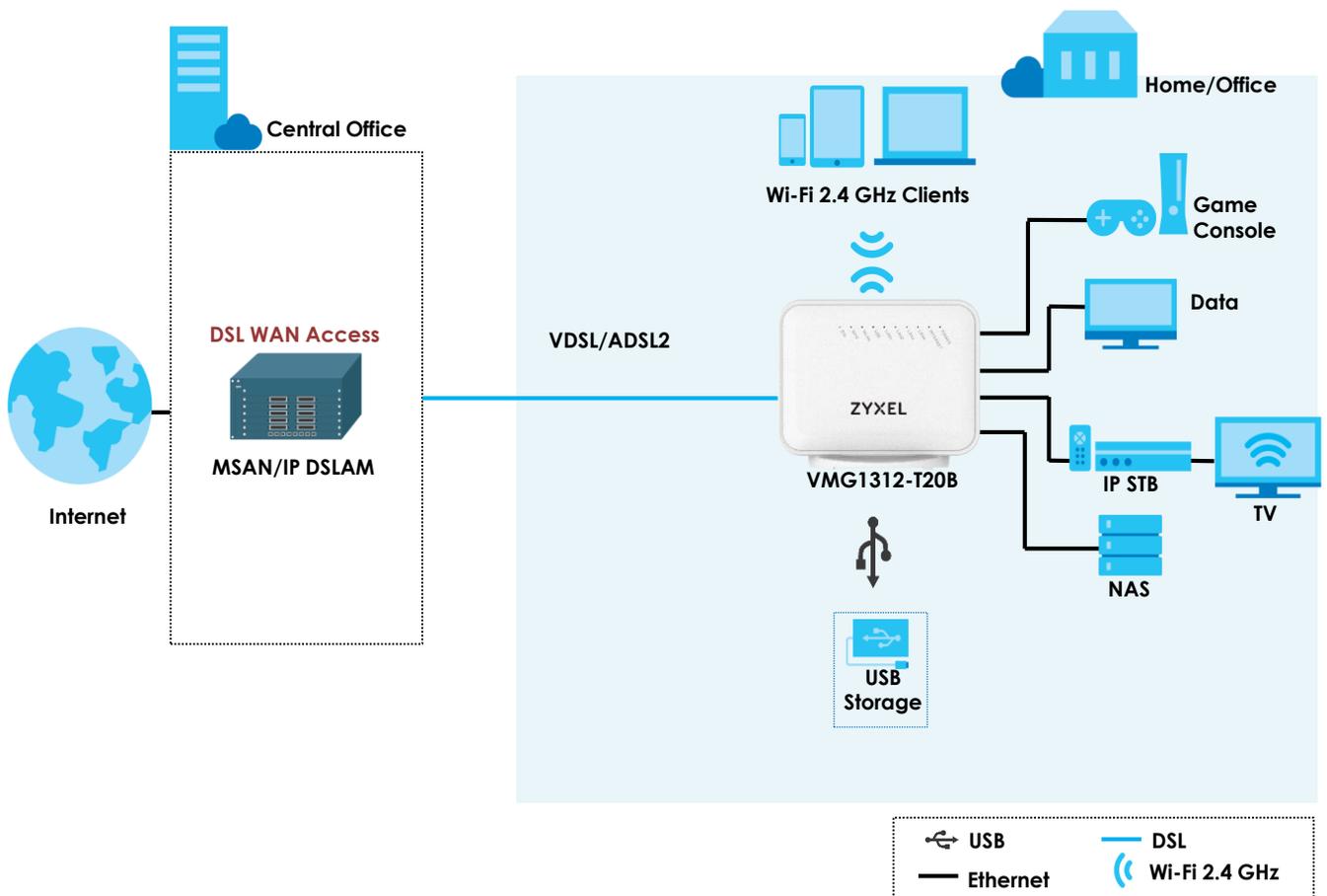
2.4 GHz 11n (2x2) for superior performance and coverage

The Zyxel VMG1312-T20B features 802.11n technology to provide the ultimate solution for both speed and coverage. With 802.11n wireless data rates of up to 300 Mbps, the VMG1312-T20B provides stable, reliable wireless connections for high-speed data and multimedia applications. The 802.11n technology empowered the device to eliminate dead zones and extend coverage while retaining backward compatibility with any certified device.

TR-069/TR-181 issue-2 remote management

With the TR-069/TR-181 standard management specifications, the Zyxel VMG1312-T20B allows service providers to manage and configure client devices remotely without interfering end users. This unique feature not only offers true "plug-and-play" experience but also reduces deployment complexity, and it also saves operating as well as maintenance costs for service providers.

Applications Diagram



Specifications

System Specifications

Wireless Standard

- 2.4GHz 802.11n (2x2) 300Mbps

VDSL Compliance

- ITU-T G.993.2 VDSL2, band plan 997, 998
- VDSL profiles (8a/b/c/d, 12a/b, 17a)
- ITU-T G.993.5 (G.vector)
- ITU-T G.998.4 (G.inp): up to 16 symbols
- TR-114

ADSL Compliance

- ITU-T G.992.1 (G.dmt) Annex A
- ITU-T G.992.2 (G.lite) Annex A
- ANSI T1.413
- ITU-T G.992.3 ADSL2
- ITU-T G.992.5 ADSL2+
- ITU-T G.998.4 (G.inp)
- Reach-Extended ADSL (RE ADSL)

Router/Bridge Features

- PPPoE (RFC2516)
- PPPoA (RFC2364)
- DHCP client/server/relay
- DHCP option 60/ 61/125
- DNS Proxy / Static DNS / DNS From ISP
- NAT (Enable / Disable)
- Fullcone NAT (Enable / Disable)
- IGMP Proxy (Enable / Disable)
- IGMP v1, v2
- IEEE 802.1d transparent bridge
- NAT server (Port forwarding)
- Static route/policy routing
- IP protocol (IPv4 / IPv6)

USB

- File Sharing

Wireless

- IEEE 802.11 b/g/n compliance
- Frequency: 2.4 GHz
- Data rate: 300 Mbps
- WPA/WPA2
- WPA2-PSK with AES
- WPA/WPA2-PSK with AES/TKIP+AES
- WEP data encryption 64/128 bit
- Wireless Protected Setup (WPS)
- Multi SSID (up to 4) and hidden SSID support

VLAN/QoS

- VLAN Active (Enable / Disable)/ 802.1p (0~7)/ 802.1q (1~4094)
- Support flexible traffic Classification
- TCP / UDP Port Range
- Ether Type (NA / IP / ARP / PPPoE Discovery / PPPoE Session / 802.1Q / IPv6)
- Source & Destination Address / Subnet Mask / Port Range / MAC / MAC Mask
- Predefine Service
- IP Protocol (TCP / UDP / ICMP / IGMP / User Defined)
- DHCP OPT (60 / 61 / 77 / 125)
- Packet Length
- 6-bit DiffServ Code Point (DSCP, RFC 2474)
- TCP ACK

Firewall & Security

- MAC filter
- Scheduler Rule
- IPv4 / IPv6 Firewall (Stateful Packet Inspection)
- Parental control.
- ACL Rule support: (32 ACL rules)
- DoS Protection

Management

- Web/HTTP: 3 level log-in
- Login Privilege
- CLI (Command Line Interpreter) via SSH or Telnet
- Firmware upgrade via Web/TFTP/FTP/TR069 RPC method
- Text based configuration (XML based)
- Configuration backup/update/restore default via Web
- Configurable access control for remote management (Interface and / port number)
- Trust Domain
- DSL Forum TR-069, TR-098, TR-181 issue-2, TR-064, TR-111
- SNMP v1, v2
- Rom-D support
- TR-069 Serial number parameter MUST be device serial number in back label

Hardware Specifications

WAN

- One RJ-11 interface for VDSL/ADSL2(over POTS)

LAN

- 4 Auto-sensing 10/100Mbps Ethernet LAN Ports

Wireless

- Two on-board antennas
- 1 USB2.0 host

Status LED indicator

- Power, Ethernet, WLAN, WPS, DSL, Internet, USB.
- Power On/Off Button

WLAN/WPS button

- One button for WLAN on/off.
- One button for WPS configuration.

Reset/Restore button

- One real button for restore factory default settings)

Physical Specifications

- Item Weight: 0.19 kg
- Item dimension: 14.5 x 60.6 x 120.7mm (WxDxH)
- Packing Weight : 0.435 kg
- Packing dimensions: 182 x 134 x 79mm (WxDxH)

Power consumption

- DC 12V/ 1A

Environmental Specifications

Operating Environment

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

Storage Environment

- Temperature: -30°C to 70°C (-22°F to 158°F)
- Humidity: 10% to 95% (Non-condensing)

Certification

- CE

Package Contents

- Wireless router
- Power adapter
- RJ-11 cable
- RJ-45 cable
- Quick start guide

For more product information, visit us on the web at www.zyxel.com

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