



VMG1312-T20B

Wireless N VDSL2 4 port Gateway with USB

The VMG1312-T20B provides high-speed VDSL Internet access to meet the worldwide market requirements of triple-play services. It supports 802.11n which provides the ultimate solution for high speed wireless connection with data rate up to 300 Mbps and further improves your wireless experience by offering better whole home coverage and avoiding dead spots. Furthermore, The VMG1312-T20B supports IPv6 which allows for much more efficient routing and a larger address space. Users also could leverage the USB interface for file sharing.

Benefit

VDSL2 High-speed Internet Access

VMG1312-T20B provides VDSL2 of up to profile 30a with data rates of up to 100 Mbps in downstream direction and 100 Mbps upstream. The VDSL2 technology supports the widespread deployment base of triple-play services such as voice, video, data, high-definition television (HDTV) and interactive gaming; it also enables operators and carriers to gradually, flexibly and cost efficiently upgrade the existing xDSL-infrastructure.

802.11n Wireless Access

VMG1312-T20B supports 802.11n with backward compatibility to older wireless protocol, which provides the ultimate solution for high speed wireless connection with data rate up to 300 Mbps and further improves your wireless experience by offering better whole home coverage and avoiding dead spots.

Parental Control

Easily set up and manage your home network devices with VMG1312-T20B. You can control the bandwidth, restrict individual device's Web access and parents can schedule the times at which Internet browsing is permitted on individual devices



802.11n Wireless Access



IPv6-Next generation Internet Routing



Advanced QoS to ensure quality of triple-play services



TR-069 Remote Management Support



Parental Control

QoS for Prioritized Application

Advanced Quality of Service (QoS) ensures smooth multimedia streaming. VMG1312-T20B's QoS feature flexibly prioritizing bandwidth usage to optimize multi-stream HD video, gaming, IP voice services and Web browsing. It improves the flow of critical network traffic--particularly useful with devices like VoIP phones or when used on high-volume networks.

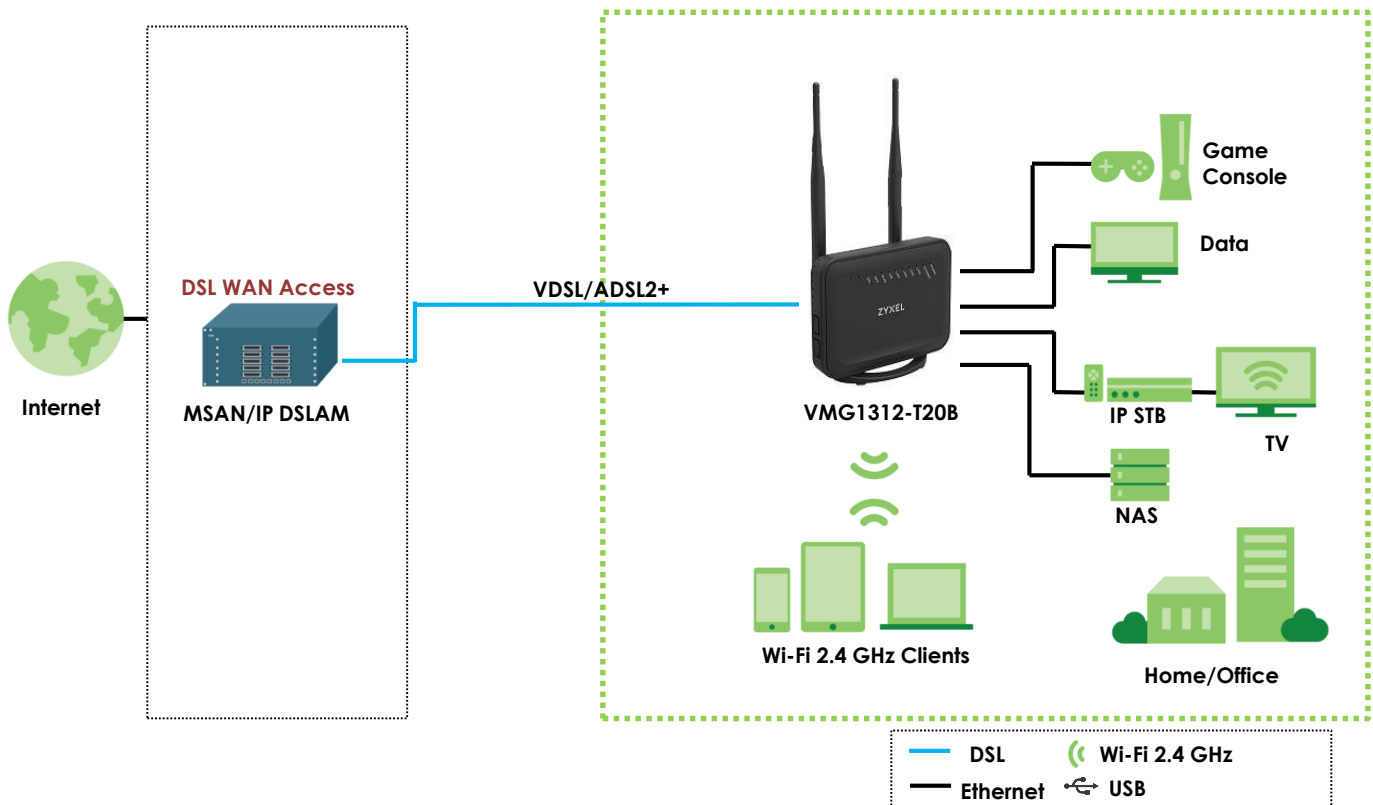
IPv6-Next Generation Internet Routing

VMG1312-T20B supports IPv6--the successor to the current IPv4 addressing system that has been used since the Internet was first created. IPv4 address space is full up and IPv6 allows for much more efficient routing and a larger address space. IPv6 is supported both from your own ISP, but if your ISP does not (yet) support IPv6, VMG1312-T20B also supports IPv6 broker/tunnel services to provide IPv6 access to 3rd party IPv6 providers.

TR-069 Remote Management Support

With the TR-069 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 saves operating and maintenance costs for service providers.

Applications Diagram



Specifications

System Specifications

VDSL Compliance

- ITU-T G.993.1 VDSL Annex A compliant
- ITU-T G.993.2 VDSL2 Annex A compliant
- ITU-T G.994.1 (G.hs) Handshake compliant
- ITU-T G.992.5 (ADSL2+) Annex A compliant
- Support VDSL profiles: 8a/b/c/d, 12a/b, 17a and 30a
- SRA (Seamless Rate Adaption)
- UPBO (Upstream power back-off)
- VDSL OAM communication channels
- PTM mode
- G.inp
- PhyR configurable

WLAN

- IEEE 802.11 b/g/n compliance
- Frequency: 2.412GHz~2.472GHz
- WPA (Wi-Fi Protected Access) AES/TKIP Encryption
- WEP data encryption 64/128 bit
- Wireless Protected Setup (WPS)
- Multicast traffic pass-through

USB

- File sharing

Bridge/Router

- PPPoE (RFC2516)
- PPPoA (RFC 2364)
- MAC Encapsulation Routing

Firewall/Security

- ACL Rule support
- DoS (Denial of Services) detection and prevention
- Stateful Packet Inspection support
- Reports and logs

QoS

- Queuing and scheduling
- Queue management

Management

- SNMP v1 & v2
- Embedded Web Server for f/w upgrade and romfile backup and restore
- Remote Management Control
- TR-069,TR-098 HTTPS

Hardware Specifications

- One RJ-11 VDSL port
- 1 USB port
- Four 10/100 Mbps Ethernet LAN RJ-45 ports
- WLAN: two external antenna
- WLAN/WPS button: separate WLAN/WPS button
- Reset/Restore button:
 - 1 second Reset
 - 5 seconds Restore Factory default settings
- Status LED indicator:
 - USB
 - DSL
 - WIFI
 - Ethernet
 - Internet
 - Power

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
- Humidity: 20% to 95% RH (Non-condensing)

Certification

EMC

- EN55022 Class B
- EN61000-3-2, EN61000-3-3

Safety

- EN60950-1

Rear Panel



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