

TURBOSPEED™

VDSL2 & Embedded-LTE Hybrid (VPN) Router

AC1200 Wireless with GigaEthernet



Model No. VLR8281(B)(S)

Product Highlights

High Availability TripleWAN offering reliable network

- Providing up to three WAN interfaces, including VDSL, LTE SIM and Giga-Ethernet WAN.
- Multi-WAN priority with auto-Failover/Fallback secure your critical connectivity always-on.
- Load-Balancing maximize bandwidth and efficiently utilization (VLR8281BS).

VPN secure connection (VLR8281S)

Supports PPTP, L2TP-over-IPsec and IPSec VPN, ideal for branches which need to connect to local network.

Wireless-AC wave2 and Gigabit Ethernet

Extreme link speed offer the best connection experience. Stream HD multimedia across your home using fast wired and wireless connectivity options.

TR069/CWMP central management

Communication between ACS and CPE ensure safe auto configuration and centralize management.

Simultaneous Dual-Band AC1200 Wireless

Applies the latest IEEE 802.11ac wave2 technology to deliver concurrent transfer rates of up to 300 Mbps* for 2.4 GHz and 867 Mbps* for 5 GHz. The dual-band network allows your home users to enjoy an enhanced streaming and file-sharing experience with wider coverage and faster transfer speeds.

Advanced Quality of Service (QoS) ensures smooth multimedia streaming

Interrupted media streaming can be a annoying experience for everyone.

QoS feature avoids this by 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.

Easy security setup With the VLR8281's Wi-Fi Protected Setup (WPS), protecting your wireless network is as simple and fast as one button click. An Easy Mode allows for basic setup and system configuration, quickly establishing an encrypted connection with client devices

* Specifications & picture in this datasheet are subject to change without prior notice.



Specification*

WAN Interfaces

- VDSL2/ADSL2+ interface
- LTE SIM interface
- 10/100/1000Mbps Ethernet interface

Multi-WAN Features

- WAN priority configuration
- Automatically Failover/Fallback between WAN interfaces
- Multi-WAN bonding via Load-balancing (VLR8281BS)

DSL Standard

VDSL2 Compliance

- 993.2(VDSL2), G.993.2: 8a/b/c/d, 12a/b, 17a, 30a, 35b^{†1}
- 998.4(G.inp), 993.5(G.Vector)
- VLAN supported
- PhyR, SRA, Bitswap, Virtual Noise

ADSL2+/ADSL Compliance

- G.992.1 (G.dmt), G.992.2 (G.lite)
- G.992.3 (ADSL2/G.bis), G.992.5 (ADSL2+)
- ANSI T1.143 issue2
- Support VC and LLC based
- PhyR, SRA, Bitswap

Advanced Dual Band Wireless

- 802.11ac wave2 (Multi-User) MU-MIMO ready
- 5G 802.11a/n/ac support up to 866Mbps
- 2.4G 802.11b/g/n support up to 300Mbps
- 2T2R MIMO technology
- WPS for easy setup
- AP neighbors scan
- Wireless access control
- WiFi security: WEP, WPA, WPA2
- Multiple-SSID
- Virtual AP/SSID isolation
- WMM (WiFi Multimedia)

Network Security

- Build-in robust Firewall
- NAT/NAPT
- Stateful Packet Inspection (SPI)
- IP/service ports/MAC packet filtering
- URL/Domain filtering
- DHCP server, client & relay
- Port Forwarding
- Virtual server
- DMZ
- DoS Protection
- ALG, ACL
- PPTP/L2TP/IPSec VPN pass-through

Virtual Private Network (VLR8281S)

- IPSec VPN
- L2TP over IPSec VPN server
- L2TP over IPSec client
- PPTP VPN server
- PPTP VPN client
- OpenVPN server
- OpenVPN client

Management

- LTE connectivity info
- LAN/WLAN clients info
- Interface statistics
- ARP table
- CWMP/TR-069 Remote Management
- Web-based GUI configuration
- Firmware upgrades through HTTP
- Syslog
- Configuration File Backup and Restore
- SNMP v1/v2

Network Protocol

- Bridged, PPPoE, IPoE
- Static route
- RIP v1/v2
- MTU size adjustment
- Port mapping
- QoS (Quality of Service) classification
- DNS proxy/relay, DDNS
- NTP client
- UPnP
- IGMP snooping & proxy
- MLD snooping & proxy

IPv6 Ready

- IPv6 static routing
- IPv6 dual-stack
- RADVD
- DHCP v6
- IPv6 IP filtering
- IPv6 MLD snooping & proxy

Physical Interface

- 1x VDSL Port (RJ-11)
- 1x SIM slot (2FF) for LTE
- 1x Gigabit-Ethernet WAN port (RJ45)
- 4x Gigabit-Ethernet LAN Ports (RJ-45)
- 1x Reset button
- 1x WPS button
- 1x WiFi on/off
- 1x Power jack
- 1x Power on/off switch

Power

- 12V DC/2A

Operating Environment

- Operating temperature: 0 – 40°C
- Storage temperature: -20 – 70°C
- Humidity: 20 – 95% non-condensing

Ordering Information

- VLR8281-BQ4
LTE Cat.4 – B1/2/3/5/7/8/20/38/40
WCDMA/UMTS – B1/2/5/8
- VLR8281-Q26
LTE Cat.6 – B1/3/7/8/20/28/38/40/41
WCDMA/UMTS – B1/3/5/8
- VLR8281S-BQ4
Support VPN connection
LTE Cat.4 – B1/2/3/5/7/8/20/38/40
WCDMA/UMTS – B1/2/5/8
- VLR8281S-Q26
Support VPN connection
LTE Cat.6 – B1/3/5/7/8/20/28/38/40/41
WCDMA/UMTS – B1/3/5/8
- VLR8281BS-BQ4
Support Multi-WAN bonding via Load-balancing
Support VPN connection
LTE Cat.4 – B1/2/3/5/7/8/20/38/40
WCDMA/UMTS – B1/2/5/8
- VLR8281BS-Q26
Support Multi-WAN bonding via Load-balancing
Support VPN connection
LTE Cat.6 – B1/3/5/7/8/20/28/38/40/41
WCDMA/UMTS – B1/3/5/8

VLR8281(B)(S) VDSL2 & LTE Hybrid (VPN) Router

Dual-Band Wireless and Full-Gigabit Ethernet
AC1200 with MU-MIMO

Maximum wireless signal rate derived from IEEE standard 802.11 specifications. Actual data throughput and wireless coverage will vary. Network conditions and environmental factors, including volume of network traffic, interference, and building construction may lower actual data throughput and wireless coverage.

* Specifications & diagram in the datasheet are subject to change without prior notice.

^{†1} Future release by request