

# COMTREND

## A/VDSL2+ MODEM

Wired Only | One Gigabit Ethernet WAN Port | TR-069

### VR-3046

The VR-3046 is a high-performance, single-port, A/VDSL2+ Modem that is ideal for Service Providers that want more flexible wireless integration.

- Supports VDSL 35b profile (Vplus) in VDSL2 mode for 100Mbps upstream and 300Mbps downstream high-speed bandwidth.
- Well suited for residential or small office environments that need high-speed internet access for applications such as online gaming, video streaming, and real-time audio.
- Robust capabilities to segment and route IP protocol.



**Bring Your Own Wireless:**  
Wired-only for simplified installations and reduced post-installation support calls.



**TR-069 Support:**  
Reduces truck rolls with remote management to easily fix issues.



**Single-Port:**  
One Gigabit Ethernet LAN port for high-performance speeds and a compact design.



# Specifications

### Hardware

- RJ-11 X 1 for 35b VDSL single line
- RJ-45 X 1 LAN (10/100/1000 Base-T auto-sense)
- Reset button X 1
- Power switch X 1

### VDSL Features

- Supports VDSL profiles, 8a/b/c/d, 12a/b, 17a, 30a and 35b
- Supports VDSL band plan, Annex A, 997, 998
- Seamless Rate Adaption (SRA)
- G.INP support
- G.Vector support

### ADSL Features

- T1.413, G.992.1 (G.dmt), G.992.2 (G.lite), G.992.3 (ADSL2) and G.992.5 (ADSL2+)
- Annexes A, L (Reach Extended ADSL2), and M (Enhanced Upstream Speed)
- Seamless Rate Adaption (SRA)
- Supports VC-based and LLC-based multiplexing
- Supports up to 8 PVCs
- ATM shaping: UBR/CBR/VBR-rt/VBR-nrt
- G.INP support

### LAN

- 10/100/1000 Base T, IEEE 802.3, IEEE 802.3u IEEE 802.3ab
- Supports MDI/MDIX

### Management

- TR-069/TR-098/TR-111, SNMP, Telnet, SSH, Web-based management, Configuration backup and restoration
- Software upgrade via HTTP

### Diagnostics

- ATM F4/F5 OAM, 802.1ag, 802.3ah
- Ping, TraceRoute
- TR-143 (Network Throughput Performance Tests and Statistical Monitoring)

### Networking Protocols

- RFC 2364 (PPPoA), RFC 2684 (RFC 1483) Bridge/Router, RFC 2516 (PPPoE); RFC 1577 (IPoA)
- PPPoE pass-through, Multiple PPPoE sessions on single WAN interface
- PPPoE filtering of non-PPPoE packets between WAN and LAN
- Transparent bridging between LAN and WAN interfaces
- 802.1p/802.1q VLAN, DSCP
- IGMP Proxy V1/V2/V3, IGMP Snooping V1/V2/V3, Fast leave
- Static route, RIP v1/v2, ARP, RARP, SNTP
- DHCP Server/Client/Relay, DNS Proxy/Relay, Dynamic DNS, UPnP, DLNA
- IPv6 Dual Stack, IPV6 Rapid Deployment (6RD)

### Firewall/Filtering

- Stateful Packet Inspection Firewall
- Stateless Packet Filter
- URI/URL filtering
- TCP/IP/Port/interface filtering rules support both incoming and outgoing filtering

### NAT/PAT

- NAT Loopback
- Port Triggering
- Port Forwarding (Virtual Server)
- Symmetric port-overloading NAT
- VPN Pass Through (PPTP, L2TP, IPsec)
- DMZ host

### Environment

- Operating temperature: 32~104°F (0~40°C)
- Operating humidity: 10~90% (non-condensing)
- Storage temperature: -40~158°F (-40~70°C)
- Storage humidity: 5~90% (non-condensing)