ADSL2+/VDSL2
4 Ethernet Ports | 1 USB Host | 802.11n
VR-3038u
Wireless Router

The VR-3038u is an 802.11n compliant Multi-DSL router that supports both ADSL2+ and VDSL2. VDSL2 is a brand new standard and technology perfect for triple play (Video, Voice and Data) applications. The VR-3038u comes with four 10/100 Base-T Ethernet ports, and one USB host, combining wired LAN connectivity and an integrated 802.11n WiFi WLAN Access Point (AP) for wireless connectivity.

The VR-3038u is a cost effective solution designed to meet the needs of ISPs and carriers planning on deploying a single DSL device for covering end users in different loop range areas. Deploying VR-3038u is cost effective for ISPs and carriers because deploying a single CPE DSL device with multiple profile support minimizes the number of required upgrades.

FEATURES

- Annex A, UPnP, IPv6 compliant
- Automatically switches to ADSL2+/ VDSL2 according to the port setting of DSLAM
- Supports up to VDSL2 17a Profile
- PhyR and G.INP
- G.vector
- Up to 16 PVCs
- Up to 8 PTM flows
- Supports TR-069/TR-098/TR-111
- Configuration backup and restoration
- Supports TR-064
- Web-based management (HTTPS/HTTP)
- Supports remote administration, automatic firmware upgrade and configuration

- Integrated 802.11n AP (backward compatible with 802.11b/g)
- WPA and 802.1x/ WPS 2.0/ RADIUS client
- NAT/PAT
- Supports SP/WFQ/WRR for QoS
- Per-PVC packet level QoS
- IGMP Proxy/ fast leave/ Snooping/ Proxy
- DHCP Server/Client
- Embedded SNMP agent
- IP/MAC address filtering
- Static route/ RIP/ RIP v2 routing function
- DNS Proxy/Relay
- 3G Backup/ Printer Server (IPP)/ File sharing
- FTP/TFTP server

VR-3038u

4 Ethernet Ports | 1 USB Host | 802.11n

SPECIFICATIONS

Hardware
· RJ-11 X 1 for ADSL2+/VDSL2
· RJ-45 X 4 for LAN, (10/100 BaseT)
· Reset button X 1
· WPS /WiFi on/off button X 1
· Power switch X 1
· USB host X 1

WAN
· Comply with ITU-T G.992.5, ITU-T G.992.3, ITU-T G.992.1, ANSI T1.413 Issue 2, AnnexM
· ADSL2+: Downstream : 24 Mbps   Upstream : 1.3 Mbps
· Comply with G.993.2 (supporting profile 8a, 8b, 8c, 8d, 12a, 12b, 17a)
· VDSL2:   Downstream : 100Mbps   Upstream : 60Mbps

LAN
· IEEE 802.3, IEEE 802.3u
· Support MDI/MDI-X
· 10/100 BaseT Auto-sense

Wireless
· IEEE802.11b/g/n
· 64, 128-bit Wired Equivalent Privacy (WEP) Data Encryption
· 11 Channels (US, Canada)/ 13 Channels (Europe)/ 14 Channels (Japan)
· Up to 300Mbps data rate
· MAC address filtering, WEP, WPA, IEEE 802.1x

ATM Attributes
· RFC 2364 (PPPoA), RFC 2684 (RFC 1483) Bridge/Route; RFC 2516 (PPPoE); RFC 1577 (IPoA)
· Support up to 16 PVCs
· AAL5
· UBR/CBR/VBR
· UNI 3.1/4.0
· OAM F4/F5

PTM Attributes
· ATM Adaptation Layer: Ethernet packet format,
· Support 8 flows,
· Support preemption and dual latency,
· Support PTM shaping

Security
· PAP, CHAP, Packet and MAC address filtering, SSH
· IPSec Termination
· Three level login including local admin, local user and remote technical support access

Home Networking Service
· File Sharing (Samba) and support USB mass-storage
· DLNA Media Server
· Printer Server

Application Layer Gateway (ALG)
· SIP, IPSec, H.323, Yahoo messenger, ICQ, RealPlayer, Net2Phone, NetMeeting, MSN, X-box, Microsoft DirectX games and etc.

Application Pass Through
· PPTP, L2TP, IPSec, SIP, Yahoo messenger, ICQ, RealPlayer, NetMeeting, MSN, X-box, etc.

Networking Protocols
· RFC 1483/2684 VC-MUX, LLC/SNAP encapsulations for bridged or routed packet
· IPoEoA (MER), IPoA, PPPoA, IPoE, PPPoE
· PPPoE pass-through, Multiple PPPoE sessions on single WAN interface
· PPPoE filtering of non-PPPoE packets between WAN and LAN
· Transparent bridging between all LAN and WAN interfaces
· 802.1p/802.1q VLAN support
· Spanning Tree Algorithm
· 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
· Internet Printing Protocol
· UPnP
· IPv6 subset

Firewall/Filtering
· Stateful Packet Inspection Firewall
· Stateless Packet Filter
· Day-time Parental Control
· URI/URL filtering
· Denial of Service (DOS): ARP attacks, Ping attacks, Ping of Death, LAND,SYNC, Smurf, Unreachable, Teardrop
· Port Scan Detection and Protection
· TCP/IP/Port/interface filtering rules Support both incoming and outgoing filtering

NAT/NAPT
· Support One to One, Many to One, Many to Many (Overload), Many to Many (No Overload) NAT
· NAT Loopback
· Port Triggering
· Port Forwarding (Virtual Server)
· Symmetric port-overloading NAT, Full-Cone NAT
· DMZ host
· VPN Pass Through (PPTP, L2TP, IPSec)

Management
· TR-069/TR-098/TR-104/TR-111, SNMP, Telnet, Web-based management, Configuration backup and restoration
· Software upgrade via HTTP, TFTP server, or FTP server

Routing Functions
· Static route, RIP, and RIPv2, NAT/PAT, DHCP Server/ DHCP Relay, DNS Proxy, ARP

Power Supply
· Input: AC 100-240V, Output: DC 12V/ 1.0A

Environment Condition
· Operating temperature: 0 ~ 40 degrees Celsius
· Relative humidity: 5 ~ 95% (non-condensing)

Dimensions
· PCB 120 mm (W) x 78 mm (D)

Kit Weight (1*VR-3038u, 1*RJ11 cable, 1*RJ45 cable, 1*power adapter)
· 0.6 kg (estimation)

COMTREND CORPORATION