COMTREND

xDSL/Eth Gateway AC1600

Multi-DSL **|** Giga Ethernet Port **|** 802.11ac Wave 2 **|** TR-069

VR-3060u

VR-3060u is a Multi-DSL gateway that not only provides both ADSL and VDSL but also 5 integrated Giga Ethernet ports, with WiFi operating on WLAN 802.11n 2.4GHz frequency band and 802.11ac 5GHz Frequency band. The two wireless bands are separated in two dedicated Wi-Fi networks, supporting more end-user devices while reducing signal interference. VR-3060u is designed for high speed applications and is suitable for triple play services by wired or wireless protocol.

VR-3060u has 1*USB3.0 host port which provides high speed access to USB devices such as printer server, 3G dongle, HDD, and has future DLNA connectivity. In addition, VR-3060u follows TR-069 making central (ACS) management easy.

KEY FEATURES

- **Future-Proof with A/VDSL:** Offers VDSL2 with ADSL2+ fallback for flexible future transitional deployments.

- **Provides Optimized Performance:** Supports the latest G.vector & G.inp technologies to work together to mitigate crosstalk and impulse noise resulting in greater throughput.

- **Supervectoring:** Part of next-generation broadband technologies - with more frequency ranges than ever before, you can achieve even greater bandwidth (up to 300 Mbit/s download, up to 50 Mbit/s upload).

- **Maximizes Video Streaming:** Equipped with 802.11ac Wave 2 technology and MU-MIMO wireless connectivity to enhance video experience.

- **Remote Management for Reduced Truck Rolls:** Supports TR-069 to easily setup, manage, troubleshoot and control the CPE remotely.

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SPECIFICATIONS

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Hardware	- RJ-11 X1 for ADSL2+ / VDSL2, 17a - RJ-45 X 4 for LAN - RJ-45 X 1 for WAN - IEEE 802.11n 2T2R - IEEE802.11ac 3T3R - Reset Button X 1, - WPS & Wi-Fi On/Off button X 2 - Internal Wi-Fi Antennas x 1 - External Wi-Fi Antennas x 2 - Power switch X 1 - USB 3.0 Host X 1
WAN	- Complies 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 - Complies with G.993.2 (supporting profile 8a, 8b, 8c, 8d, 12a, 12b, 17a) - VDSL2: Downstream : 100Mbps Upstream : 60Mbps 10/100/1000 Base T, IEEE 802.3, IEEE 802.3u IEEE 802.3ab
LAN	- IEEE 802.3, IEEE 802.3u IEEE 802.3ab 10/100 /1000 BaseT auto-sense - Support MDI/MDX
WLAN	- IEEE 802.11n 2T2R, backward compatible with 802.11g/b 64, 128-bit Wired Equivalent Privacy (WEP) Data Encryption 11 Channels (US, Canada)/ 13 Channels (Europe)/ 14 Channels (Japan) - Up to 300 Mbps data rate MAC address filtering, WEP, WPA, IEEE 802.1x - IEEE 802.11ac 3T3R, backward compatible with 802.11n/a
ATM Attributes	- RFC 2364 (PPPoA), RFC 2684 (RFC 1483) Bridge/Route; RFC 2516 (PPPoE); RFC 1577 (IPoA) - Supports16 PVCs - AAL5 - UBR/CBR/VBR - UNI 3.1/4.0 - OAM F4/F5
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

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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
ENVIRONMENT	
Operating Temperature	0 ~ 40 degrees Celsius
Relative Humidity	5 ~ 95% (non-condensing)

COMTREND

Maximum performance, actual data rates, and coverage will vary depending on network conditions and environmental factors. Product specifications and design are subject to change without notice.