Multi-DSL

xDSL Bonded | 4 Ethernet Ports | USB Host | 802.11n

NexusLink 3111u
Bonded Router

The NexusLink 3111u Multi DSL Bonded Router is a single box solution for triple play applications. It features dual xDSL bonded ports that provide twice the xDSL bandwidth (ADSL2+ in both ATM/PTM modes and VDSL2 PTM 8a/8b/8c/8d/12a/12b/17a profiles) over comparable single-port models. With PTM mode supported, it can provide better performance than a regular ATM mode router. The NexusLink 3111u is equipped with three Fast Ethernet ports, one Gigabit port and 802.11n WLAN Access Point (AP). It goes above and beyond with high level features such as QoS, VPN and remote management (with TR-069 support).

FEATURES

- Supports bonded xDSL lines
- Automatically switches to ADSL2+/VDSL2 according to the port setting of DSLAM
- Up to VDSL2 17a Profile
- US0
- PhyR and G.INP
- G.Vector
- Up to 16 PVCs and Up to 8 PTM flows
- Auto PVC configuration
- Integrated 802.11n AP (backward compatible with 802.11b/g)
- WPA and 802.1x
- WPS 2.0
- RADIUS client
- IPv6 compliant
- UPnP
- IGMP Snooping/Proxy and Fast Leave

- DNS Proxy/Relay
- DHCP Server/Client
- Dynamic IP assignment
- NAT/PAT
- IP/MAC address filtering
- Static route and RIP/RIP v2 routing function
- Per-PVC packet level QoS
- 3G Backup and Printer Server (IPP)
- USB mass-storage and file sharing (Samba)
- Embedded SNMPv2 agent
- FTP/TFTP server
- TR-064/TR-069/TR-098/TR-111
- Configuration backup and restoration
- Web-based management
- HTTPS/HTTP server
- Remote administration, automatic firmware upgrade and configuration

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SPECIFICATIONS

Hardware
- RJ-14 X1 for Multi DSL Bonded,
- RJ-45 X 3 for LAN, (10/100 BaseT auto-sense)
- RJ-45 X 1 for Flex Port, (10/100/1000 BaseT auto-sense)
- Reset Button X 1
- Power switch X 1
- USB host X 1*

Dual WAN Interface

xDSL WAN
- **VDSL2**
- Comply with G.993.2 (supporting profile 8a, 8b, 8c, 8d, 12a, 12b, 17a)
- VDSL2 bonded : up to 17a profile
- G.998.2 (VDSL2 Bonded):
- **ADSL2+**
- Comply with ITU-T G.992.5, ITU-T G.992.3, AnnexA/L/M
- G.998.1 (ADSL2+ Bonded):

Gigabit Ethernet WAN
- 10/100/1000 Mbps
- RJ45 connector

LAN
- IEEE 802.3, IEEE 802.3u
- Support MDI/MDX
- Multiple Subnets on LAN

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
- Multiple BSSID
- MAC address filtering, WDS, WEP, WPA, WPA2, IEEE 802.1x
- 10,25,50,100mW@22MHz channel bandwidth output power level can be selected according to the environment

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

Security Functions
- PAP, CHAP, Packet and MAC address filtering, SSH
- VPN termination
- Three level login including local admin, local user and remote technical support access

QoS
- Packet level QoS classification rules,
- Priority queuing using ATM TX queues,
- IP TOS/Precedence,
- 802.1p marking,
- DiffServ DSCP marking
- Src/dest MAC addresses classification

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

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

Networking Protocols
- RFC2684 VC-MUX, LLC/SNAP encapsulations for bridged or routed packet
- RFC2364 PPP over AAL5
- IPoA, PPPoA, PPPoE, Multiple PPPoE sessions on single PVC, PPPoE pass-through
- PPPoE filtering of on-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 Relay, Dynamic DNS,
- IPv6 subset

Firewall/Filtering
- Stateful 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
- TCP/IP/Port/interface filtering rules Support both incoming and outgoing filtering

NAT/NAPT
- Support Port Triggering and Port Forwarding
- Symmetric port-overloading NAT, Full-Cone NAT
- Dynamic NAPT (NAPT N-to-1)
- Support DMZ host
- Virtual Server
- VPN Passthrough (PPTP, L2TP, IPSec)

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

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

COMTREND CORPORATION

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