

# A/VDSL2

A/VDSL2 PTM Bonded | 3 Ethernet Ports | 1 Gig FlexPort | USB Host | 802.11n

## NexusLink 3112u Bonded Router



The NexusLink 3112u Multi DSL Bonded Router is a single box solution for triple play applications. It features VDSL2 bonding, which provides twice the downstream bandwidth (8, 12, 17MHz profiles) over comparable single-port models. The NexusLink 3112u supports ADSL2+ fallback when connected to an ADSL2+ bonded-capable DSLAM. With PTM mode support, it can provide better performance than a regular ATM mode router. The NexusLink 3112u is equipped with three Fast Ethernet ports, one Gigabit FlexPort and an high-power 802.11n WLAN Access Point (AP). Additionally, the NexusLink 3112u features QoS, VPN and remote management with TR-069 support.

### FEATURES

#### Hardware Overview

The NexusLink 3112u supports VDSL2 single line and bonding up to 17a with auto-switching based on DSLAM settings. An integrated high-power 802.11n WLAN Access Point (AP) operates at speeds of up to 300 Mbps without sacrificing backward compatibility with 802.11b/g. The TR-068 compliant rear panel and LED indicators also simplify installation and improve ease-of-use. Additionally, the USB host port connects to printers.

#### Reliability and Quality

For over 20 years, Comtrend has delivered superior quality products to our customers worldwide. Every product goes through rigorous testing and is backed by a 2 year warranty.

#### Safe & Secure Connections

As the first level of protection, a Stateful Firewall (with DoS protection) and NAT/PAT help to isolate the LAN from external threats. IP and MAC address filtering provide access control to or from the network. Advanced security technologies, such as Virtual Private Networks (VPN) with PPTP pass-through, L2TP pass-through and IPSec pass-through ensure secure networking, and WPA/WPA2/802.1x/WEP provide secure wireless connections.

#### Remote Management

TR-069/TR-098/TR-111 standards compatibility ensures interoperability with central office remote management equipment. For the service provider it means improved customer relations and simplified management. Other management options include telnet, ssh and a web user interface with advanced control functionality.

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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 FlexPort, (10/100/1000 BaseT auto-sense)
- Reset Button X 1
- Power switch X 1
- USB host X 1

### Dual WAN Interface

#### VDSL WAN

- Comply with G.993.2 (supporting profile 8a, 8b, 8c, 8d, 12a, 12b, 17a)
- VDSL2 bonded : up to 17a profile
- G.inp & G.vector compliant

#### 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
- Up to 400mW output power
- 64, 128-bit Wired Equivalent Privacy (WEP) Data Encryption
- 11 Channels (US, Canada)
- 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

### PTM Attributes

- ATM Adaptation Layer: Ethernet packet format
- Support 8 flows
- Support preemption and dual latency
- Support IEEE 802.1ag Ethernet CFM (Connectivity Fault Management)
- 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,SYN, 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)