A/VDSL2

A/VDSL2 Bonded | 4 Ethernet Ports

NexusLink 3101 Bonded Router

The NexusLink 3101 Multimode DSL Bonded Router is a single box solution for triple play applications. It features dual VDSL2 bonded ports that provide twice the VDSL bandwidth (12a/12b profile) over comparable single-line models. The NexusLink 3101 supports ADSL2+ fallback (single line and bonded) when connected to an ADSL2+ DSLAM.   With PTM mode supported, the 3101 can provide better performance than a regular ATM mode router. It goes above and beyond with advanced features such as QoS, VPN and remote management (including TR-069 support).

FEATURES

Bonded A/VDSL for Fast Connections

The NexusLink 3101 features VDSL2 (12a/12b) with auto-switching based on DSLAM settings.   It also supports backward compatibility to ADSL2+ for longer distances. The TR-068 compliant rear panel and LED indicators also simplify installation and improve ease-of-use.

Quality of Service

Classify, control, and prioritize diverse traffic types, for pristine video, toll-quality voice, and error-free data transmissions.

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 fine-grained 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.

Remote Management

TR-069/TR-098/TR-111 standards compatibility ensures interoperability with central office remote management equipment. From the user perspective this reduces downtime and frustration. 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 command and control functionality.

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SPECIFICATIONS

Hardware
· RJ-14 X 1 for Multi DSL Bonded,
· RJ-45 X 4 for LAN, (10/100 BaseT auto-sense)
· Reset Button X 1
· Power switch X 1

WAN
VDSL
· Comply with G.993.2 (supporting profile 8a, 8b, 8c, 8d, 12a, 12b)
· VDSL2 bonded : up to 12a profile
ADSL
· Comply with ITU-T G.992.5, ITU-T G.992.3, AnnexA/L/M
· G.998.1 (ADSL2+ Bonded):
  Downstream : 48 Mbps   Upstream : 2.6 Mbps
· G.992.5 (ADSL2+ non-Bonded):
  Downstream : 24 Mbps   Upstream : 1.3 Mbps
· G.992.3 (ADSL2 non-Bonded)
  Downstream : 12 Mbps   Upstream : 1.3 Mbps

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

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

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-rt//VBR-nrt
· UNI 3.1/4.0
· OAM F4/F5

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)

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