VDSL2

VDSL PTM Bonded | 4 Ethernet Port | USB Host | 802.11n

NexusLink 3100u
Bonded Router

The NexusLink 3100u Wireless Multi 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-port models. With PTM mode supported, it can provide better performance than a regular ATM mode router.   It is also equipped with four Fast Ethernet ports, one Gig Flex port and an 802.11n (draft) 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

Bonded VDSL2 and Wired/Wireless LAN

The NexusLink 3100u features VDSL2 (12a/12b) with auto-switching based on DSLAM settings.   An integrated 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.

Quality Of Service

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

Safe & Secure Connections

First, both a Stateful Firewall (with DoS protection) and NAT/PAT protect the LAN from external threats. Second, IP and MAC address filtering provide fine-grained access control to or from the network. Third, WPA/WPA2/802.1x/WEP guarantee rock-solid security for wireless connections.

Remote Management (TR-069 supported)

TR-069/TR-098/TR-111 standards compatibility ensures interoperabilty 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 cost savings. Other management options include telnet, ssh and a web user interface with advanced functionality.

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SPECIFICATIONS

Hardware
· RJ-14 X1 for Multi DSL Bonded,
· RJ-45 X 4 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
VDSL WAN
· Comply with G.993.2 (supporting profile 8a, 8b, 8c, 8d, 12a, 12b)
· VDSL2 bonded : up to 12a profile
GbE 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

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,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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