VDSL2 Router "AURORA"

Introduction

The Aurora is an all-in-one VDSL2 Router with the latest draft 802.11n technology. It is designed for home and SOHO users who seek extreme mobility, high-speed wireless connection and better wireless coverage while maintaining high-speed broadband access with VDSL2.Aurora is capable of offering optimal speeds and coverage over the integrated wireless 802.11n access point. The device supports the highest rate of up to 100Mbps/100Mbps in VDSL2 Profile (30a).Since VDSL2 has the characteristic of faster rates over shorter distances, the ideal architecture for Telcoms is to use fiber optic lines as the backbone and a VDSL2 line as the last mile into the home or office.VDSL2 operates over copper wires so that telecom operates can provide bundled services to end-users similar to those that cable operators offer.

With outstanding throughput, Aurora can complement a fiber network to offer the best solution for delivering IPTV or home entertainment services. The SOHO Firewall is integrated to provide protection against hacker attacks while the Quality of Service prioritizes queues and traffic for applications such as music downloads, online gaming, video streaming and file sharing.

VDSL Features

◆ Compliant with ITU VDSL2 standard G.993.2, G.994.1, G.997.1

◆ VDSL2 profiles: 8a/8b/8c/8d/12a/12b/17a/30a

◆ Supports Annex A, Annex B(B7-1->B7-10,B8-1->B8-16), Annex C

◆ Supports Fast mode/ Interleave mode)

◆ Supports Manual/RaInit mode

◆ Upstream/Downstream data rate greater than 150/150 Mbps at short loop lengths, 100/100 Mbps at 1kft.

◆ Loop diagnostic mode

◆ UPBO, DPBO, SRA, BITSWAP, Virtual noise

◆ US0 with configurable start and stop frequencies

◆ Compatible with POTS, ISDN

◆ Full VDSL2 MIB status including

  ■ Current per-band SNR, Line/Signal attenuation

  ■ Actual data rate, INP, delay

  ■ Per-group SNR, Qln, Bits, Gain, Log

  ■ Inventory information

◆ Configurable

  ■ Configurable PSD

  ■ Configurable SNR, INP, 64Kb rate limit, overhead rate

  ■ G.HS carrier set

◆ Interoperable with CPE devices from Infineon, Ikanos and Broadcom

Router Features

- Integrated 4-port Ethernet switch
- Universal plug and play(UPnP) compliant
- NAT, static routing and RIP-1/2
- NAT supports PAT and multimedia applications
- Transparent bridging
- Virtual server and DMZ
- SNTP,DNS relay and DDNS
- IGMP snooping and IGMP proxy
- Build-in NAT firewall
- Stateful packet inspection(SPI)
- Prevents Dos attacks including Land Attack, Ping of Death, etc
- Remote access control for web base access
- Packet and URL filtering
- Password protection for system management
- VPN pass-through
- Supports the DiffServ approach
- Traffic prioritization based-on IP protocol, port number and address

- Quick installation Wizard
- Web-based for remote and local management
- Firmware upgrades and configuration data upload/ download via web-based interface
- Embedded Telnet server for local management
- SNMP v1/v2/v3, MIB-I and MIB-II support
- Available Syslog monitoring
- Supports DHCP server/client/relay
- Mail Alert
- Compliant with IEEE 802.11n draft 2.0,802.11g and 802.11b Standards
- 2.4 Ghz-2.484 Ghz frequency range
- Up to 300Mbps wireless operation rate
- 64/128 bits WEP supported for encryption
- WPS(Wi-Fi Protected Setup) for easy setup
- Wireless Security with WPA-PSK / WPA2-PSK support
- WDS repeater function support
- Multiple

Specifications

- Dimensions: 7.09" x 4.72" x 1.57" (180mm x 120mm x 40mm)
- WLAN: 2x2 dBi antennas
- DSL: VDSL port
- Reset button and WPS push button
- Power jack and switch
- E thernet: 4-port 10/100Mbps auto-crossover (MDI/MDI-X)switch
- Input:12V DC,1.2A

V1.1