X5671 VDSL2/ADSL2+ Wireless router

VDSL2 router with wireless access

The X5671 is a VDSL2 based CPE with fall back on ADSL2+ and built in router and bridge functions. X5671 features one VDSL2/ADSL2+ WAN, four LAN ports and wireless 802.11g. Designed to interoperate with DSLAM equipment from major vendors. The integrated Ethernet switch features automatic crossover correction and speed sensing for easily connecting to user's PCs or LAN environment. By offering the flexibility to service provider with one model that fits different kind of VDSL2/ADSL2+ applications, the X5671 delivers the convenience, efficiency and innovation of a copper wire to it's customers.

Features

- Supports up to ADSL2+ (G.992.5) with 24 Mbps downstream and 1 Mbps upstream rates
- Supports up to VDSL2 data rate with 100 Mbps
- Supports fall back to ADSL2+ if VDSL2 training fails
- Integrated four-port Ethernet switch with automatic speed sensing and crossover correction
- 802.11b/g WLAN supports up to 54 Mbps transmission rate (optional)
- Secure transmitting encryption by either 802.1x; WEP; WEP2; WPA; WPA2; TKIP; AES; 802.11i
- Supports Networking protocols such as PPP, NAT, Routing, DHCP server / relay / client
- Configuration and management by Web-browser through the Ethernet interface and remotely through VDSL2/ADSL interface
- Firmware upgradeable through HTTP / TFTP
- Supports TR-069 and TR-104

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Specifikation, hardware

Local Interface

- Four 10/100 Base-T Ethernet ports in RJ-45 connector, comply with IEEE 802.3u
- Integrated 802.11g WLAN Access Point with external antenna, backward compatible with 802.11b

WAN Interface

- 2-wire loop with 100 ohms line impedance in RJ-11 connector
- G.994 compliant
- G.992.1 (G.dmt) – Annex A, B, and C compliant
- G.992.2 (G.lite) – Annex A and C compliant
- ANSI T1.413 compliant
- G.992.3 (ADSL2) compliant, supporting Annex A, B, C, L and M
- G.992.5 (ADSL2+) compliant, supporting Annex A, B, C and M
- I.432 ATM physical layer compliant
- ANSI T1.424 Trial Use Standard
- ETSI TS101270
- ITU-T G.993.1
- IEEE 802.3ah 10 PASS TS D2.1
- China's National VDSL standards

Indicators

Front panel (all LEDs in green color)

- PWR – ON when the power supply is properly connected.
- WAN – Blinking while VDSL2/ADSL is training, and ON when ADSL link is ready.
- WLAN – Blinking while WLAN is transmitting data, and ON when WLAN port is active.
- DATA – Blinking when packets traffic is traveling from LAN to WAN.
- ALM – Blinking during re-boot.

Rear panel

- Each Ethernet port got speed (10/100) and activity indicators.

OAM&P

- Through Web browser, remotely or locally
- One hidden console port (RS-232) for maintenance

Environment

- Operation Temperature: 0°C ~ 45°C
- Operation Humidity: 5% ~ 95% (non-condensing)
- Storage Temperature: -20°C ~ +85°C
- Storage Humidity: 5% ~ 95% (non-condensing)

Power

- AC adapter: Input 120 VAC/60Hz or 230VAC/50Hz; Output 12VDC 1A
- Power consumption: Less than 10 watts

Physical Dimensions

- 220 mm × 169 mm × 42 mm (W × D × H)

Certificates

- CE, CB (TBD)

Specifikation, software

ATM

- AAL0, AAL5, OAM, RM and Transparent cell types
- Traffic shaper/scheduler: priority scheduling; per-VCC queuing; UBR/ CBR/VBR shaping based on Peak Cell Rate(PCR), Sustained Cell Rate (SCR), and Maximum Burst Tolerance; Minimum Cell Rate Shaping; Multi-priority AAL Queuing
- Full 24-bit Virtual Port Identifier (VPI)/ Virtual Circuit Identifier (VCI) support
- 16 Virtual Channel Connections (VCCs)
- Payload Encapsulation:
  – RFC2684 / RFC1483, Multiprotocol Encapsulation over ATM Adaptation Layer 5
  – RFC2225 / RFC1577, Classical IP and ARP over ATM (IPoA)
  – RFC2364, PPP over AAL5 (PPPoA)

Bridging

- RFC2684 / RFC1483 bridged PDU encapsulation
- Transparent bridging (IEEE 802.1D) with at least 32 MAC addresses
- Bridge filtering with per-port extensions

Routing

- RFC2684 / RFC1483 bridged and routed PDU encapsulations
- MAC Encapsulated Routing (MER)
- Supports Point-to-Point Protocol (including PPPoA and PPPoE) and user authentication via PAP, CHAP or MS-CHAP
- Routing Information Protocol (RIP) v1 and v2, static route
- DHCP client, server and relay agent
- NAT / PAT – RFC1631 with support for extensive ALGs
- DNS relay

Firewall

- NAT: 16 sessions, DMZ and ALGs
- Stateful Packet Inspection (SPI) with DOS protection - Ping of Death, SYN Flood LAND
- Protection against IP and MAC address spoofing
- UPnP NAT traversal and VPN / IPSec pass-through

Wireless

- Supports 802.1x; WEP; WEP2; WPA; WPA2; TKIP; AES; 802.11i
- Hidden SSID
- WMM for advanced Quality of Service
- AES in hardware
- 125 High Speed Mode: Standards-plus performance enhancement delivers best real-world performance as the client card use the same 125 High Speed Mode

Configuration and Network Management

- SNMP GETs, SETs and TRAPs for four groups in MIB-II
- Embedded syslog; SNTP with DHCP options
- UPnP Internet Gateway Device (IGD) compliance
- Management and configuration via Web / HTTP
- Firmware upgrade using HTTP or TFTP
- Supports TR-069 and with parameters: DeviceInfo, ManagementServer, Time, IPPingDiagonostic, etc
- Supports TR-104

Note: Not every listed feature will be included in the shipping product.

We reserve the right to make changes of technical specifications, housing or design without prior notice.

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