

# X5668 Broadband Wireless Router

## High speed router with wireless access



X5668 is a ADSL2+ based high speed modem with built in router and bridge functions. X5668 features one ADSL2+ WAN, four LAN ports and wireless 802.11b/g. Designed to interoperate with DSLAM equipment from major vendors. With embedded firewall, X5668 delivers secure broadband Internet access for enterprises, telecommuters, home, and remote office workers with high speed data requirement.

### Features

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



## 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
- ### 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 15 watts

### Physical Dimensions

- (W x D x H) t.b.d

## 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 Queueing
- 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; SNMP 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, IPPingDiagnostic, 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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