

## **X5668 Broadband Wireless Router**

# *High-end 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. 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 28 Mbps downstream and 2\* Mbps upstream rates (\* under Annex M mode, actual performance may vary depending on the network configuration and conditions).
- Integrated four-port Ethernet switch with automatic speed sensing and crossover correction
- 802.11b/g WLAN supports up to 54 Mbps transmission rate
- 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 ADSL interface
- Firmware upgradeable through HTTP / TFTP / TR-069
- IGMP Snooping and proxy
- Multiple SSID
- Supports TR-069 management



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## Specifications, 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

- 175 x 130 x 30 (W x D x H) t.b.d

## Specifications, 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 / TFTP / TR-069
- Supports TR-069 management

**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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