

# AW1038

## 802.11g 2.4GHz Wireless ADSL AP Router



### Key Features

- High Speed Data Rate Up to 54 Mbps
- Support ADSL2+
- Interoperable with both 802.11b and 802.11g network without changing PC adapter
- Can be used in platform with multiple wireless LAN cards.

### Benefits to Users

- Built-in ADSL broadband network access to save cost
- Backwards compatible with 802.11b network equipment
- Strong wireless security
- Support PPPoE, DHCP, NAT for internet sharing
- Complete Firewall function with DMZ port
- User friendly web-based configuration and management with configuration backup and restore

Combining with ADSL modem, 802.11g Access Point and VoIP Gateway, AW1038 is a versatile network device that provides high-speed broadband internet connection for both wired and wireless hosts, at home or office. AW1038 enables your PC to access to 2.4GHz networks with high performance data rate of up to 54Mbps and also can backward compatible with existing 802.11b (11Mbps) equipment seamlessly.



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### Specifications

#### ADSL

- Standard Compliance: Annex A/B/C ANSI T1.413
- Issue 2, ITU-T G.992.1 (G.DMT), G.992.2 (G.Lite), G.992.3 (ADSL 2) and G.992.5 (ADSL 2+)
- U-R2 certified (Annex B)
- Auto connect with dual latency (fast and interleave) support
- Comply with handshake protocol defined in ITU-T G.994.1 (G.hs)

#### WLAN

- 802.11g 54 Mbps Access Point
- 802.1x and WPA security
- 64/128 bit WEP encryption
- MAC-address-based access control
- Wireless Distribution System (WDS) support with easy Scan-and-Join function

#### Routing features

- RIP1 (RFC 1058), RIP2 (RFC 1389) and static routing
- NAT, NAPT and extensive ALG support
- DHCP Server/Relay/Client
- DNS Relay
- IGMP Proxy

#### Briding Protocols

- Ethernet to ADSL self-learning Transparent Briding (IEEE802.1d)
- Support up to 128 MAC learning address

#### Security

- Stateful Packet Inspection Firewall
- Access Control List
- IP/Port/MAC Filtering
- Supports PAP and CHAP with PPP (RFC 1334)

#### WAN Protocols

- Multiple protocol over AAL5: LLC and VC-Mux (RFC 1483/2684)
- PPP over AAL5 (RFC2364)
- Classical IP (RFC 1577)
- PPPoA (RFC 2364)
- PPPoE (RFC 2516)

#### ATM

- Support ATM Forum UNI 3.1/4.0
- Up to 8 ATM VCCs (Virtual Circuit Connection) working concurrently
- Per-PVC packet level QoS
- Support UBR, VBR and CBR traffic shaping
- OAM F4/F5 loopback support (I.610)

#### Network Management

- Web-Based configuration and status monitoring
- Remote/Local firmware upgrade via HTTP, FTP and TFTP
- System log
- Safe against mis-upgrade
- Configuration backup and restore

#### Radio

- Media Access Control: CSMA/CA with ACK
- Modulation: 802.11b: DSSS  
802.11g: OFDM
- Frequency Range (depending on countries):
  - USA – FCC 2412~2462MHz
  - Canada – IC 2412~2462MHz
  - Europe – ETSI 2412~2472MHz
  - Japan – STD-T66/STD-33m2412~2484MHz
- Operating Channels:
  - 11 channels (US, Canada)
  - 13 channels (ETSI)
  - 14 channels (Japan)
- Output Power: >15dBm
- Sensitivity (typical): -83 dBm/11b; -67dBm/11g
- Data Rate: 802.11b: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54Mbps

#### Environment

- Operating temperature range: 0<sup>o</sup>C to 40<sup>o</sup>C (32<sup>o</sup>F to 104<sup>o</sup>F)
- Operating humidity range: 10 ~ 95% non-condensing

#### Physical Interfaces

- Two external antennas
- One ADSL port (RJ-45)
- One 10/100BaseT Ethernet ports (RJ-45) with Auto-detection

#### Power

- External power supply
- Input: AC 100 V ~ 240 V, 50~60 Hz
- Output: 15 VDC