



**SMC7908VoWBRA**  
**ADSL2 Barricade™g Wireless Broadband Voice ADSL Router**  
**with built-in Annex A ADSL2/2+ Modem**



**OVERVIEW**

The ADSL2/2+ Barricade™g, SMC7908VoWBRA, is an all-in-one solution for connecting and sharing your ADSL Broadband connection in your home or office. With different softwares provided, SIP or H.323 protocol is supported in this product and one FXS, one FXO VoIP channel allow user connect to analog phone. This multifunction Annex A ADSL router combines a 2.4GHz 54Mbps 802.11g Wireless Access Point, 4 10/100Mbps RJ45 ports for connection to a PC or Network and an RJ11 WAN port that connects to your ADSL line. The four 10/100Mbps RJ45 ports can be connected to a network hub or switch to expand the number of people sharing your ADSL connection in your home or your office.

The SMC7908VoWBRA also has a built in DHCP server to make implementing and expanding your network simple and easy. This device supports ADSL2+ G.dmt, which gives you download speeds of up to 24Mbps and upload speeds of up to 1Mbps. Its SPI Firewall security provides a high level of security for your network. This new device is a complete ADSL solution for PC or MAC users. Graphical user interface software is provided for easy installation, configuration, and management. The LED display panel on the front of the product shows at-a-glance the Ethernet activity, ADSL status, WLAN status, USB, Power and VoIP status with both Phone(FXS Ports) and Line.

FEATURES	BENEFITS
VoIP	VoIP technology provides users a solution of voice communication over the IP networks/Internet.
High speed internet Access accessibilities	Built-in ADSL (G.992.1/G.992.2/992.3/992.5) bridge/modem provides the internet data/voice accessibilities
Flexibility and scalability	Built-in 802.11b/g WiFi module allows users to access internet wirelessly
Easy Setup	Routing from WAN to LAN & Sharing the Internet access
Security	Gateway features like NAT, SPI firewall and VPN pass-through provide the capability of constructing secure networks.



## TECHNICAL SPECIFICATIONS

## SMC7908VoWBRA

### PORTS

- One ADSL port with RJ-11 connector for Internet Connection
- Two RJ-11 voice interfaces on board, one FXS for connecting telephone and one FXO for failover to PSTN
- Four 10/100 BaseT Ethernet LAN connection to connect PC
- SIP: One USB 1.1 connecting USB printer or storage device
- H.323: One USB 1.1 connecting USB printer
- One reset button to reset system
- One power jack DC12V 1A

### ADSL FEATURES

- Supports DMT line modulation
- Supports Annex A Full-Rate ADSL: up to 12Mbps downstream,
- Up to 1Mbps upstream (G.992.1 & T1.413, Issue 2)
- Supports G.Lite ADSL: up to 1.5Mbps downstream, up to 512Kbps upstream
- Up to 600 meters increase and support 12 mbps for ADSL2 & 24 Mbps for ADSL2+
- Support G.992.1 G.dmt /G.992.2 G.lite/G.992.3 ADSL2/G.992.5 ADSL2+ line coding
- Service Class UBR, VBR or CBR selectable, CBR peak rate selectable.
- VPI/VCI selectable
- OAM F4/F5 flow support
- Dying GASP support

### VoIP FEATURES

- SIP or H.323 (separate firmware needed)
- CODEC
  - G.711 a/u-law with packetization period 20ms
  - G.729a voice compression
  - Echo cancellation G.168
  - G.723.3
- DTMF in-band and out-band
- DTMF tone generation and relay
- QoS process with TOS, Diffserv
- VAD, comfort noise generation
- Silence Threshold
- H.323: T.38 fax relay and modem relay (future)
- Support independent dialing plan (E.164)
- Call Waiting
- Call Forwarding (future)
- Caller ID (FSK and DTMF)
- Jitter buffer

### MANAGEMENT FEATURES

- Firmware upgrade via WEB Based Management
- WEB Based Management (configuration)
- Power Indicators
- Event & History logging
- Telnet, SNMP support
- Network Ping
- SNMP v.1/v.2 support
- TFTP

### ATM FEATURES

- RFC1483 Encapsulation (IP, Bridging & encapsulated routing)
- PPP over ATM (LLC & VC multiplexing) (RFC2364)
- Classical IP (RFC1577)
- Traffic shaping (UBR, CBR, and VBR)
- OAM F4/F5 support
- PPP over Ethernet Client

### SECURITY FEATURES

- 64/128 bit WEP encryption support
- WPA(Wi-Fi Protected Access), wireless protection supported
- 802.1x/WPA-PSK Authentications supported
- Mac Address Filtering control list for wireless devices
- Password protected configuration access
- User authentication (PAP/CHAP) with PPP
- SPI Firewall
  - NAT and NAPT address translation
- VPN pass through (IPSec-ESP Tunnel mode, L2TP, PPTP)

### LAN FEATURES

- IEEE 802.1d (self learning transparent Bridging)
- DHCP Server
- QoS Feature
  - TOS = 5 for voice packet
  - TOS = 0 for data packet
  - VLAN tagging
  - 802.1P enabled QoS with marking, queuing and scheduling
- DNS Proxy/Relay
- Static Routing, RIP v.1 and RIP v.2

### APPLICATION

- Netmeeting, ICQ, Real Player, QuickTime, DialPad, PC Anywhere
- MSN messenger support

### WIRELESS RF MODULE FREQUENCY BAND

- 13 channels / frequencies
- 802.11g Radio: 2.4GHz
- 802.11b Radio: 2.4GHz
- USA - FCC
  - 2412 ~ 2462MHz (Ch1~Ch11)
- Canada - IC
  - 2412 ~ 2462MHz (Ch1~Ch11)
- Europe - ETSI
  - Japan - STD-T66/STD-33
    - 2412~2484MHz (Ch1~Ch14)

### MODULATION TYPE

- OFDM, CCK

### STANDARDS

- IEEE 802.3, 802.3u, 802.11g, 802.1D
- ITU G.dmt
- ITU G.Handshake
- ANSI T.413 issue 2 - ADSL full rate
- ITU G.992.3 - ADSL2
- ITU G.992.5 - ADSL2+ (future)

### COMPATIBILITY

- CE, ETSI, R&TTE, FA (Frequency Authority)
- FCC Part 15 class B & Part 68
- ETS 300 328, EN301489-1/-17

### SAFETY

- GS (EN60950)

### INTERNET STANDARDS

- RFC 826 ARP
- RFC 791 IP
- RFC 792 ICMP
- RFC 768 UDP
- RFC 793 TCP
- RFC 783 TFTP
- RFC 1483 AAL5 Encapsulation
- RFC 1661 PPP
- RFC 1866 HTML
- RFC 2068 HTTP
- RFC 2364 PPP over ATM

- RFC2516 PPPoE

### OPERATING CHANNELS

- 802.11b compliant
  - 11 channels (US, Canada)
  - 13 channels (ETSI)
- 802.11g compliant
  - b-mode Modulation Rate-Output Power (dBm)
    - 1Mbps 16 dBm
    - 2Mbps 16 dBm
    - 5.5Mbps 16 dBm
    - 11Mbps 16 dBm
  - g-mode Modulation Rate-Output Power (dBm)
    - 6Mbps 15 dBm
    - 9Mbps 15 dBm
    - 12Mbps 15 dBm
    - 18Mbps 15 dBm
    - 24Mbps 15 dBm
    - 36Mbps 15 dBm
    - 48Mbps 15 dBm
    - 54Mbps 15 dBm
- b-mode Modulation Rate-Receiver Typical Sensitivity(dBm)
  - 1Mbps -90 dBm
  - 2Mbps -88 dBm
  - 5.5Mbps -85 dBm
  - 11Mbps -84 dBm
- g-mode Modulation Rate-Receiver Typical Sensitivity (dBm)
  - 6Mbps -88 dBm
  - 9Mbps -87.8 dBm
  - 12Mbps -84 dBm
  - 18Mbps -82 dBm
  - 24Mbps -79 dBm
  - 36Mbps -75 dBm
  - 48Mbps -68 dBm
  - 54Mbps -68 dBm

### TEMPERATURE

- 0 to 50 degrees C (Maximum Operating)
- -40 to 70 degree C (Non-operation)

### HUMIDITY

- 10% to 90% (Non condensing)
- Vibration: IEC 68-2-36, IEC 68-2-6
- Shock: IEC 68-2-29
- Drop: IEC 68-2-32

### DIMENSIONS

- 220 x 133 x 25 mm
- 8.7 x 5.24 x 1 in

### WEIGHT

- 370g
- .82lbs

### POWER INPUT

- 12V/1A

## Contact

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