



SMC7908VoWBRB
ADSL2 Barricade™g Wireless Broadband Voice ADSL Router
with built-in Annex B ADSL2/2+* Modem



OVERVIEW

The ADSL2/2+* Barricade™g, SMC7908VoWBRB, 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 2 FXS, one FXO VoIP channel allow user connect to analog phone. This multifunction Annex B 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 SMC7908VoWBRB 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 user to access internet wirelessly
Easy Setup	Routing from WAN to LAN & Sharing the Internet access
Security	Gateway features like NAT, DHCP, and SPI firewall etc provide the capability of constructing private networks.

* Future Option

PORTS

- One ADSL port with RJ-45 connector for Internet Connection, full rate ADSL/ADSL2*/ADSL2+*
- Two RJ-11 FXS voice interfaces on board for connecting two telephones
- 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
- Built-in IEEE 802.11b/g wireless module to provide wireless LAN connectivity
- One reset button to reset system
- One power jack DC12V 1A

ADSL FEATURES

- Support for ADSL over ISDN Networks
- RFC 1483 Bridging/Routing Mode
- PPPoE and PPPoA
- DHCP client for WAN port
- Support G.992.1 G.dmt/ G.992.3*/G.992.5* line coding
- Service Class UBR, VBR or CBR selectable, CBR peak rate selectable.
- VPI/VCI selectable
- OAM F4/F5 flow 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 (SIP in the future) and modem relay
- 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

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
- NAT/NAPT
- Virtual Server Support
- Virtual DMZ support
- Password protected configuration access
- User authentication (PAP/CHAP) with PPP
- SPI Firewall function with hacker pattern detection
 - IP Spoofing
 - Land Attack
 - Ping of Death
 - IP with zero length
 - Smurf Attack
 - TCP null scan
 - SYN flood
 - UDP flooding
 - Tear Drop Attack
 - ICMP defect
 - RIP defect
 - Fragment flooding
- VPN pass through (IPSec-ESP Tunnel mode, L2TP, PPTP)
- Port mapping

LAN FEATURES

- DHCP server for LAN
- QoS Feature
 - TOS = 5 for voice packet
 - TOS = 0 for data packet
 - VLAN tagging
- 802.1P enabled QoS with marking, queuing and scheduling
- IEEE 802.1D (self learning transparent Bridging)
- DNS Proxy (Relay)
- Static Routing, RIPV1 and RIPV2
- Four 10/100Mbps switch ports with auto-MDI/MDIX
- Bridging between Ethernet & IEEE802.11b/g
- USB host 1.1 support features as following: (Optional)
 - SIP: File Server- LAN & Remote accessible
 - Print Server

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
- T.413 issue 2 - ADSL full rate
- ITU G.992.3* - ADSL2*
- ITU G.992.5* - ADSL2+*

COMPATIBILITY

- CE, ETSI, R&TTE, FA (Frequency Authority)
- 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

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 T 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 -878 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 (Standard 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

- 370 g
- .82 lbs

POWER INPUT

- 12V/1A

* Future Option

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