

SMC7901BRA5

1-Port Annex A ADSL2/ADSL2+ Modem Router

Product Overview

The SMC7901BRA5 is a highly-integrated residential broadband access device, which provides one ADSL2+ RJ-11 port and one built-in Ethernet port. The SMC7901BRA5 is fully compliant with ADSL2/2+ and the Ethernet standards IEEE 802.3/802.3u. It provides high-performance access to the Internet, with downstream speeds up to 24 Mbps and upstream up to 2 Mbps. The SMC7901BRA5 can support high-performance applications for individual users, SOHOs, and small enterprises.



Key Features and Benefits

Enhanced ADSL2+ Technology

Instant, always-on Internet connectivity for wired computers. The built-in ADSL2/2+ modem gives unrivaled asymmetric high-speed data transport at up to 24 Mbps downstream.

SPI Firewall Protection from Hackers

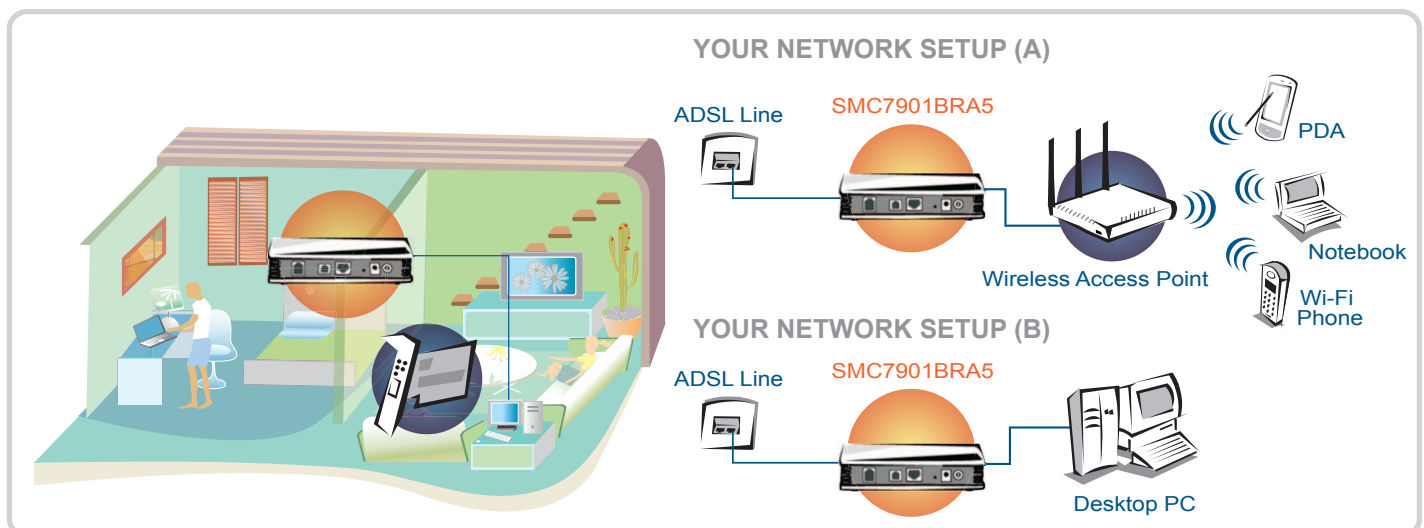
The NAT firewall with Stateful Packet Inspection (SPI), Intrusion Detection System, and Denial-of-Service protection provides robust security from hackers, while VPN pass-through allows secure connectivity to your office or corporate network. Access Control Lists with URL blocking allows you to control access to Internet services and filter inappropriate web sites.

QoS

The SMC7901BRA5 includes a built-in QoS engine, which allows network administrators to allocate network resources and to prioritize real-time applications such as voice and video. This enables the SMC7901BRA5 to provide smooth Internet phone (VoIP) calls and lag-free online gaming.

Application Diagram

Solution



Features

Physical Interface

- 1 RJ-11 port for ADSL interface
- 1 RJ-45 port for 10/100BASE-TX Ethernet
- 1 reset button
- 1 DC power jack
- 1 power on/off switch
- 1 USB port

LED Indicators

- Power, Link, Data, Ethernet, USB

ADSL Compliance

- ANSI T1.413 Issue 2
- G.992.1 (G.dmt) Annex A
- G.992.2 (G.lite) Annex A
- G.992.3 ADSL2 (G.dmt.bis) Annex A/J/K/L/M
- G.992.4 ADSL2 (G.lite.bis)
- G.992.5 ADSL2+

ATM Features

- Up to 8 ATM PVCs
- ATM Forum UNI 3.1/4.0 PVC
- UBR, CBR, and rt-VBR and nrt-VBR service classes
- ATM layer functionality
- Up to 8 PVCs – traffic shaping (CBR, UBR, rt/nrt-VBR)
- PPPoA (RFC2364)
- MPoA functionality (RFC2684)
- IP over ATM (IPoA)
- ATM cell format ITU-T I.361
- OAM F4/F5 loopback

PPP Functions

- Point-to-Point Protocol (RFC1661)
- PPP over ATM (RFC2364)
- PPP over Ethernet (RFC2516)
- User Authentication
 - CHAP (RFC1994)
 - PAP (RFC1334)

Bridge Features

- Ethernet bridging
- Support for transparent bridging
 - MAC address learning
 - MAC address filtering and protocol filtering for up-link

Routing Features

- RIP v1/v2
- Static routing
- PPP/PPPoE (RFC 2516)
- NAT with ALGs
- NAPT
- IGMP v1/v2
- IGMP proxy and snooping
- IPv4
- IP pass-through
- ARP binding
- Port mapping

Security

- Stateful Packet Inspection (SPI)
- Management Access Control for WAN
- User authentication for PPP (PAP/CHAP)
- DDoS (Dynamic DoS) Protection

Firewall

- NAT
- DMZ
- Filtering – IP Filtering, MAC Filtering, URL Filtering
- ACL (Access Control List)
- VPN pass-through (IPSec, PPTP, L2TP)
- Software Forbidden

Management

- Access administration
- Web-based configuration – HTTP server
- System configuration backup and restore
- SNMP Support (V.1 and V.2C) – MIB I, MIB II (RFC1213)
- Firmware upgrade by Web/TFTP
- Remote firmware upgrade
- UPnP
- EZ Setup Wizard
- TR069 remote management diagnostic
- TR067 ensures product meets all ADSL IOT tests

QoS

- IP ToS function (RFC 1349)
- 802.1p bit remarking
- Traffic classification by port, 802.1p, ToS, and DSCP

Dimensions

- (L) 140 x (W) 104 x (H) 28.5 mm

Operating Environment

- 0° C ~ 50° C / 32° F ~ 122° F
- Storage temperature: -20° C ~ 70° C / -4° F ~ 158° F
- 10% ~ 80% Non-condensing
- Operating humidity: 10%~85%, non-condensing
- Storage humidity: 5%~95%, non-condensing

Weight

- 177 g

Package Contents

- 1 x SMC7901BRA5
- 1 x Power Adaptor
- 1 x ADSL Splitter
- 1 x Quick Installation Guide
- 1 x Documentation CD
- 1 x RJ45 Ethernet cable
- 1 x RJ11 Phone Cable

Certifications

- FCC Class B
- CE Mark

Warranty

Please check www.smc.com for the warranty terms in your country/region.

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