

5102S ADSL2+ Router

ADSL2+ Modem/Router



BEC's 5102S is an easy-to-use yet economical pack of ADSL2+ Modem/Router perfectly designed for home and SOHO users to enjoy rich firewall security, user-friendly Web interface, and faster speed when using ADSL Internet connection. The router lets you share high-speed ADSL Internet connection, even faster with advanced ADSL2+ capability of downstream rate up to 24Mbps. The powerful SOHO Firewall feature protects against hackers' attacks when you surf the Internet. VPN pass-through is also built-in for secure access. In addition, the web-based Graphic User Interface allows you to install and manage your network easily. The BEC 5102S makes fast net surfing affordable and easy - Going online is just 'plug & play'.



- High speed Internet access with ADSL2/2+; backward compatible to ADSL
- Easy Network Management
- Single Ethernet Port (BEC 5102S)
- SOHO Firewall Security with DoS Prevention and Packet Filtering
- Universal Plug and Play (UPnP) Compliant
- Dynamic Domain Name System (DDNS)
- Support Virtual Private Network (VPN) pass-through
- Ideal for Home and SOHO Users

▲ BEC 5102S

Benefits

Express Internet Access

The router complies with ADSL worldwide standards. It supports downstream rate up to 12/24 Mbps with ADSL2/2+, 8Mbps with ADSL and upstream rate up to 1 Mbps. With this technology, users enjoy not only high-speed ADSL services but also broadband multimedia applications such as interactive gaming, video streaming and real-time audio much easier and faster than ever. Particularly, Annex M standard combined in the model of BEC 5102S supports the latest ADSL2/2+ for higher upload speeds by doubling the upstream data rate.

SOHO Firewall Security

Along with the built-in NAT firewall feature, the router also provides advanced hacker pattern-filtering protection. It can automatically detect and block Denial of Service (DoS) attacks. In addition to the NAT technology, the BEC 5102S supports Packet Filtering for high-level security control.

Easy Network Management

The Web-based User Interface makes the BEC 5102S extremely easy for users to install and manage the network. With DHCP client and server built-in, system administrators can easily attach this security router into existing network and manage the IP assignment without re-configuring other stations. Furthermore, future firmware upgrade can be done via the friendly Web-based User Interface.

TECHNICAL SPECIFICATIONS

ADSL Compliance

- Compliant with ADSL Standard
 - Full-rate ANSI T1.413 Issue 2
 - G.dmt (ITU G.992.1)
 - G.lite (ITU G.992.2)
 - G.hs (ITU G.994.1)
 - ADSL over ISDN/U-R2
- Compliant with ADSL2 Standard
 - G.dmt.bis (ITU G.992.3)
 - ADSL2 Annex M (ITU G.992.3 Annex M)
- Compliant with ADSL2+ Standard
 - G.dmt.bisplus (ITU G.992.5)
 - ADSL2+ Annex M (ITU G.992.5 Annex M)

Network Protocols and Features

- NAT, static routing and RIP-1/2
- NAT supports PAT and multimedia applications
- Multi-to-multi NAT
- Transparent Bridging
- Dynamic Domain Name System (DDNS)
- SNTP
- DNS relay

Firewall & Virtual Private Network (VPN)

- Built-in NAT Firewall
- Prevent DoS attacks including Land Attack, Ping of Death, etc.
- Anti probe function
- Packet filtering
- Password protection for system management
- VPN pass-through

Operating Environment

- Operating temperature: 0 ~ 40 °
- Storage temperature: -20 ~ 70 °
- Humidity: 20 ~ 95% non-condensing

Application Diagram



▲ Application Diagram (BEC 5200S)

ATM and PPP Protocols

- ATM Adaptation Layer Type 5 (AAL5)
- Multiple Protocol over AAL5 (RFC 2684, formerly RFC 1483)
- Bridged or routed Ethernet encapsulation
- VC and LLC based multiplexing
- PPP over Ethernet (PPPoE)
- PPP over ATM (RFC 2364)
- OAM F4/F5
- ATM QoS: UBR, CBR, VBR-rt, VBR-nrt

Management

- Web-based configuration
- Firmware upgraded and configuration data upload and download via HTTP/FTP
- SNMP v2 MIB supported
- Support DHCP server/client/relay

Hardware Specification

Physical Interface

- LINE: ADSL port
- LAN: 1 port 10/100M auto-crossover (MDI/MDI-X) switch
- Factory default reset button
- Power jack

Physical Specification

- Dimensions: 5.20" x 3.70" x 1.38" (132mm x 94mm x 35mm)

Power Requirement

- (5102S) Input: 12V AC, 1A

Models & Standards Support

- BEC 5102S: Annex A & Annex M
- Annex A and Annex M: ADSL over POTS

Note:

- 1 The router may require firmware modification for certain ADSL2+/ Annex M DSLAMs
- 2 Specifications in this datasheet are subject to changes without notice.