

# HPNA3 ADSL2+ 802.11g VPN Firewall Router/Switch over Coax Cables

March 2006



## Instant Triple Play Gateway solution

The CAR-720G is a home networking ADSL2+ gateway perfectly designed for service providers, residential users, and small offices to save installation costs by eliminating the need to rewire a house by taking advantages of the CAR-720G features. With the latest HomePNA 3.0 technology, the gateway supports up to 128Mbps high speed transmission over the existing telephone or coaxial cables. Powered by Quality of Service (QoS), the CAR-720G allows you to control and optimize the bandwidth and ensure better quality of on-line applications without about crawl speed (as sometimes happened over wireless networks). The advances security features like DoS prevention and SPI supports the network protection as the ability for mobile users to access the network.

## CAR-720G

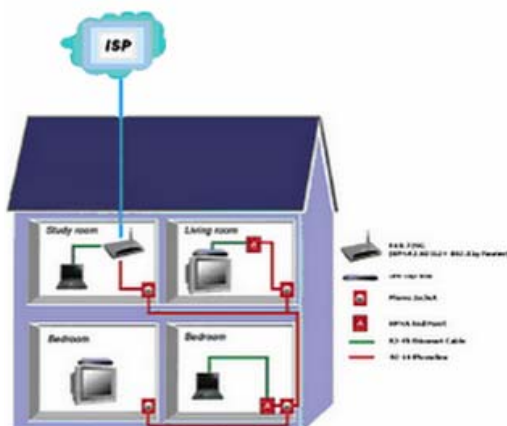


## Smooth and Responsive Net Connection

The Quality of Service (QoS) feature helps users manage the bandwidth and prioritize the traffic of data effectively. It gives you full control over the traffic of any type of data. It ensures latency-sensitive and bandwidth-consuming applications like P2P sharing program, VoIP call, video streaming and gaming packets can move through the router at lightning speed, even under heavy load. You can control the speed for inbound and outbound data passed through the router to ensure users do not saturate the bandwidth and browsing activities.

### Benefits:

- **No Wiring** – Extend your network service to every room by using existing coaxial cable
- **High Data Rate** – Data rate up to 128 Mbps
- **Reliable** – a reliable transport medium to access and distribute Triple Play contents
- **Easy to Install** – Plug and Play with no professional installation required
- **Full Quality of Service** – Supports streaming video, and VoIP
- **Secure** – Easily shares video and data files through a managed and trusted home network
- **Multi-room HDTV DVR** – Record and share digital videos simultaneously in every room
- **PC to TV content sharing** – Merge data and video-centric networks throughout the home
- **Multi-room gaming** – Access games from various locations in the home and play simultaneously
- **Compatible with cable TV** – Does not interference with cable TV signals.



## Features & Specification

### ADSL Compliance

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

### Network Protocols and Features

- NAT, static routing and RIP-1/2
- Universal Plug and Play (UPnP) Compliant
- Dynamic Domain Name System (DDNS)
- Virtual Server and DMZ
- SNTP, DNS relay and IGMP proxy
- POP3 (email account checking)
- IGMP Snooping for video service

### Firewall

- Built-in NAT firewall
- Stateful Packet Inspection (SPI)
- Prevent DoS attacks including IP Spoofing, Land Attack, Smurf Attack, Ping of Death, TCP SYN Flooding, etc.
- Packet Filtering – port, source IP address, destination IP address, MAC address
- URL Content Filtering – string or domain name detection in URL string

### HCNA (HPNA3 over Coax) Compliance

- Spectrum: 4-21MHz
- Transmission Power: 0 +/-1 dBm
- Data Rate: Up to 128Mbps
- F-Type Female Connector: 2, one for HCNA, one for TV signal bypass
- Diagnosis for HCNA interface

### Quality of Service Control

- Support DiffServ approach
- Traffic prioritization and bandwidth management based-on IP protocol, port number and address

### 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)
- Classical IP over ATM (RFC 1577)
- MAC Encapsulated Routing (RFC 1483 MER)
- OAM F4/F5

### Management

- Quick Installation Wizard and Auto-scan ADSL settings
- Web-based GUI for remote and local management
- Firmware upgrade and configuration data upload and download via Web-based GUI
- Embedded Telnet server for remote and local management
- Available Syslog monitoring
- SNMP v3, MIB-I and MIB-II support
- Support DHCP server/client/relay

### Hardware Specification

#### Physical Interface

- WAN: ADSL port
- LAN: 4-port 10/100M auto-crossover (MDI/MDI-X) Switch
- HCNA and TV : F-Type Connectors
- Factory default reset button
- Power jack
- Power switch

#### Physical Specification

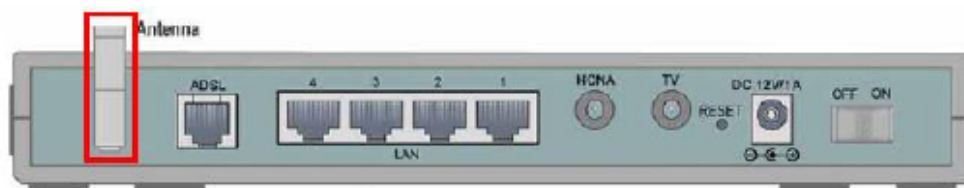
- Dimensions: 8.27" x 5.83" x 1.42"  
(210mm x 148mm x 36mm)

#### Power Requirement

- Input: 12VDC, 1.2A

#### Operating Environment

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



#### \*Note:

1. The router may require firmware modification for certain ADSL2/2+ Annex M DSLAMs.
2. IPTV application may require subscribing IPTV services from Telco/ISP.
3. Specifications in this datasheet are subject to changes without notice.