

# ADSL2+ Router CL-040 / CL-040-I

Broadband



Surf the internet, do emails and run multi-media at DSL Speed. On several computers all at the same time - save through the builtin firewall.

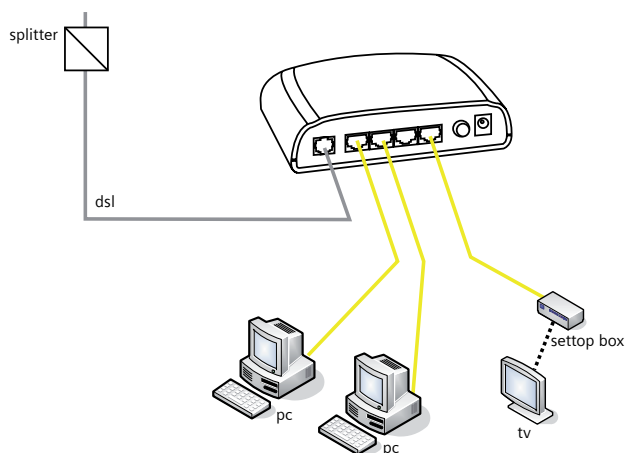


4 Ethernet ports for comfortable home networking.

The SIEMENS CL-040 Router integrates a ADSL2+ modem, router, firewall and 4 Port Ethernet Switch in one device. Data access is provided via Ethernet port.

Security is supported via a double Stateful Packet Inspection and NAT based firewall. VPN Pass-through and DMZ support provides additional security support for telecommuters as well as allow flexibility while maintaining security against malicious hackers.

With Universal Plug and Play (UPnP) support, home networking becomes a breeze for everyone in the family. Multi Port Range/Popular Application Forwarding makes it even easier to select which application you want your network to allow while ensuring your security at the same time.



## SOFTWARE

### ADSL Compliance

- ANSI T1.413 Issue 2
- ITU G.992.1 Annex A (G.dmt)
- ITU G.992.1 Annex B (G.dmt) with UR2 compliant
- ITU G.992.2 Annex A (G.lite)
- ITU G.994.1 (G.hs)
- Support dying gasp
- Maximum Rate: 8 Mbps for downstream and 1 Mbps for upstream

### ADSL2 Compliance

- ITU G.992.3 Annex A and Annex B (G.dmt.bis)
- Support dying gasp
- Maximum Rate: 12 Mbps for downstream and 1 Mbps for upstream
- ITU G.992.3 Annex L
- ITU G.992.3 Annex M

### ADSL2+ Compliance

- ITU G.992.5 Annex A and Annex B
- Support dying gasp
- Maximum Rate: 24 Mbps for downstream and 1.2 Mbps for upstream
- ITU G.992.5 Annex M

### ATM Features

- Compliant to ATM Forum UNI 3.1 / 4.0 Permanent Virtual Circuits (PVCs)
- Support up to 8 PVCs for UBR, CBR, VBR-nrt, VBR-rt with traffic shaping
- RFC2684 LLC Encapsulation and VC Multiplexing over AAL5
- RFC2364 Point-to-Point Protocol (PPP) over AAL5
- RFC2225 Classical IP and ARP over ATM
- RFC2516 PPP over Ethernet: support Relay (Transparent Forwarding) and Client functions
- Support PPPoE, PPPoA, MER and Bridged mode OAM F4/F5 End-to-End/Segment Loopback Cells

### Bridging Features

- Supports self-learning bridge specified in IEEE 802.1d
- Transparent Bridging
  - Supports up to 4096 learning MAC addresses
- Transparent Bridging among 10/100 Mb Ethernet
- Supports IGMP Snooping
- Supports 802.1Q VLAN packet pass-through

### Routing Features

- NAT (Network Address Translation) / PAT (Port Address Translation) let multiple users on the LAN to access the Internet for the cost of only one IP address.
- ALGs (Application Level Gateways): such as NetMeeting, MSN Messenger, FTP, Quick Time, mIRC, Real Player, CuSeeMe, VPN pass-through with multiple sessions, L2 TP & IPsec, RTSP, SIP, etc.
- Port Forwarding: the users can setup multiple virtual servers (e.g., Web, FTP, Mail servers) on user's local network.
- Support DMZ
- UPnP IGD (Internet Gateway Device)
- UPnP extension for NAT traversal capability
- Static routes, RFC1058 RIPv1, and RFC1723 RIPv2
- DNS Relay
- Dynamic DNS
- DHCP Client/Relay/Server
- Time protocol can be used to get current time from network time server.
- Support IGMP Proxy
- Support IP/Bridge QoS for prioritize the transmission of different traffic classes
- Support port mapping function which allows you to assign all data traffic transmitted among specific Internet connections and LAN ports
- Support 802.1Q VLAN Tagging

### Security Features

- PAP (RFC1334), CHAP (RFC1994), and MS-CHAP/MSCHAP2 for PPP session
- Firewall support IP packets filtering based on IP address/Port number/Protocol type
- Support DoS (Deny of Services) which detect & protect a number of attacks (such as SYN/FIN/RST Flood, Smurf, WinNuke, Echo Scan, Xmas Tree Scan, etc)

### Configuration and Management

- User-friendly embedded web configuration interface with password protection in English or German
- Remote management access control
- Telnet session for local or remote management
- Firmware upgrades through HTTP, TFTP, or FTP
- Configuration file backup and restore
- Support TR-069

### Hardware

#### Interface

- One RJ-11 port for ADSL connection
- Four RJ-45 ports for IEEE 802.3/802.3u 10/100 Base-T auto-sensing and auto-crossover Ethernet connection
- One power On/Off button
- One hidden button for restoration of factory default settings

#### Regulatory Approvals and Compliance

- EMC: FCC part 15 Class B, CE
- Telecom: FCC part 68
- Safety: UL, CB, LVD

#### Power Requirement and Operation Environment Requirement

- Power Adaptor: Input 120±10 or 230±10 VAC; Output 12VAC, 1.0A
- Power Consumption: less than 15 Watt
- Ambient Temperature: 0 to 40°C (32 to 96°F)
- Relative Humidity: 20% to 90% (non-condensing)

#### Physical

- Front Panel: 7 leds

#### Dimensions

- Housing: 160 mm (L) x 130 mm (W) x 38 mm (H)
- Weight: 260 g

### Ordering Number

- ADSL CL-040 (Annex A): S1621-Z139-A (EAN Code: 40 255 15 22171 5)
- ADSL CL-040-I (Annex B): S1621-Z138-A (EAN Code: 40 255 15 22170 8)