

# IAD SLI-5390-I



Surf the Internet, do emails and use Multimedia Services at DSL Speed on several computers at the same time; save through the built-in Firewall.



4 switched Fast Ethernet Ports for comfortable home networking.



The USB 2.0 High Speed Host Interface allows for connection of a (Network-) Printer or an external Hard Disc Drive to a local network.



Modern WLAN standard guarantees secure wireless internet and networking access.



Cost-effective voice calls over the Internet (VoIP) or Landline (fixed network) at high voice quality. Re-use of existing analogue and ISDN-phones. Emergency calls through Landline.  
Support of multiple SIP Accounts, which are freely assignable to POTS- and ISDN-Ports.

The IAD SLI-5390-I is a ADSL Broadband Access Gateway especially designed for Triple Play Operation: High Speed Internet, IPTV, Video on Demand and VoIP-Telephony over one single broadband connection.

Extensive Quality of Service mechanisms help to assure a high Service Quality for VoIP and IPTV.

The SLI-5390-I integrates an ADSL2+ modem, router, firewall, Wireless B/G AccessPoint, 4 Port Ethernet Switch, USB-Host Port and VoIP SIP phone in one device.

Existing analogue phones and fax devices as well as ISDN phones can be connected to the IAD SLI-5390-I. Calls can either be made via Internet (VoIP) or alternatively via the Landline, which can either be an analogue or a digital one (to be connected to POTS or to ISDN NT).

This IAD is very easy to install / configure and combine the established Internet service with the new services IP-TV and Voice over IP in one single device.

**Broadband**

[www.siemens.ch/broadband](http://www.siemens.ch/broadband)

**SIEMENS**

## Physical Characteristics

### Interfaces

- 1 ADSL Port (RJ-45, grey)
- 4 Switched Fast Ethernet Ports (RJ-45, yellow, 10/100Mbps, MDI/MDIX Auto-Sensing); Port No.4 configurable as WAN Ethernet Port (e.g. for use with Cable Modems)
- WLAN according to IEEE 802.11b/g; WLAN on/off button
- 1 combined POTS/ISDN Landline Port (RJ-45, green, FXO/ISDN TE)
- 2 POTS Ports FXS (RJ-11, black; optional 3 TAE; optional 2x 2 Spring Clamps)  
Characteristic Imp.: ETSI 270 W +(750 W // 150 nF)  
Relative Levels: 0 / -7 dB for Transmit / Receive  
Loop Current: 22 mA @ 600 W  
Ringing Signal: 25 Hz; 37 Vrms @ 2,7 kW + 6,8 mF
- 1 ISDN S0-Port (RJ-45, black; optional 4 Spring Clamps); optional 2x 100 W Terminating Resistors; meets ETSI EN 300012-1; feeding 40 V / 2,2 W
- 1 USB 2.0 High Speed Host Port; feeding 500 mA
- Reset Button to reset or to restore the factory default settings

### LED Indicators

- 14 LEDs: Power, System Status, ADSL, Internet, Landline, Spare, ISDN Phone, Analogue Phones 1-2, LAN1-4, WLAN

### CPU-Platform

- Broadcom BCM6358
- 8 MB Flash, 32 MB RAM

### Power Consumption

- 15 VDC / max. 1,4 A

## ADSL Compliance

- Support of Dying Gasp and Low Power Mode acc. to ITU-T G.992.3

### ADSL

- ANSI T1.413 Issue 2, ITU G.992.1 (G.dmt) / ITU G.992.2 (G.lite) Annex B / ITU G.994.1 (G.hs)

### ADSL2

- ITU G.992.3 (G.dmt.bis) Annex B / ITU G.992.4 (G.lite.bis) Annex B

### ADSL2+

- ITU G.992.5 Annex B (fast and interleaved mode)

## Networking

### ATM Features

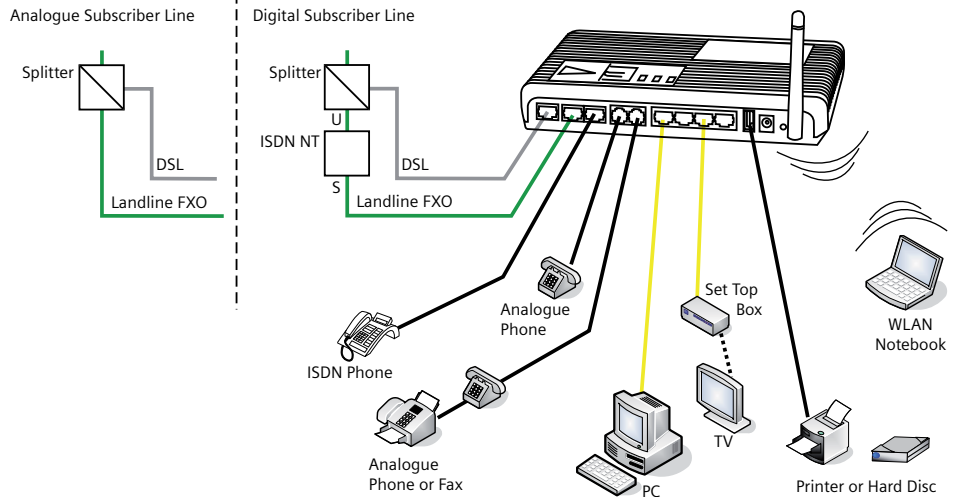
- Compliant to ATM Forum UNI 3.1/4.0 Permanent Virtual Circuits (PVC)
- Support of up to 8 PVCs for UBR, CBR, VBR-nrt, VBR-rt with Traffic Shaping
- Multi Protocol Encapsulation over ATM Adaptation Layer 5 (AAL5) (RFC 2684)
- Point-to-Point (PPP) over AAL5 (RFC 2364)
- Classical IP and ARP over ATM (RFC 2225)
- PPP over Ethernet (PPPoE): Supporting Relay and Client (RFC 2516)
- Support of OAM F4 / F5 End-to-End / Segment Loopback Cells

### Bridging

- Support of IEEE 802.1d: Transparent Bridging among 10/100 Mb Ethernet and 802.11b/g wireless LAN
- Support of dynamic learning of MAC addresses
- IP Multicast, IGMP Snooping
- Support of 802.1q VLAN packet pass-through

### Routing

- Static Route, Dynamic Route (RFC 1058 RIPv1 and RFC 1723 RIPv2)
- DHCP Server, DHCP Client, DHCP Relay
- NAT/PAT to allow multiple users on the LAN to access the Internet for the cost of only one IP address
- ALGs (Application Level Gateways) : such as NetMeeting, FTP, mIRC, Real Player, CuSeeMe, VPN (IPSec) pass-through with multiple sessions
- Port Forwarding to allow to setup multiple virtual servers (e.g. Web, FTP) on user's local network
- Dynamic DNS and DNS Relay
- IGMP Proxy
- DMZ
- UPnP 1.0
- IEEE 802.1q VLAN Tagging



## Wireless LAN

- IEEE 802.11b: 1, 2, 5.5 and 11 Mbps
- IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48 and 54 Mbps
- Operating Frequency: 2.4 ~ 2.5 GHz
- Operating Channels: Depending on local regulations (USA (FCC)/11, Europe (ETSI)/13)
- Antenna Type: Built-in Diversity Antenna and external Dipole Antenna
- Security: SSID hiding; WPA/WPA2/WEP-64/WEP-128
- Further Features: Support of Repeater function (WDS), WMM

## USB

- USB 2.0 High Speed Host
- Print Server via IPP/LPD/Samba
- File Server via SMB

## Security / Firewall

- Stateful Packet Inspection (SPI) Firewall, NAT, MAC Filter
- PAP (RFC 1334) / CHAP (RFC 1994) / MS-CHAP for PPP session
- IP Packets Filtering based on IP Address / Port Number / Protocol Type
- Inbound/outbound IP Filter, URL Filtering and DOS Attack

## Voice over IP Features

- Call Control Protocol: SIP client (RFC 3261)
- Support of multiple SIP Accounts
- SIP Accounts freely assignable to POTS- and ISDN-Ports
- Voice Transport: compliant to RTP (RFC 3550)
- Tones according to 1TR52
- RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals (RFC 2833)
- Echo Cancellation according to G.168; Voice Activity Detection (VAD); Comfort Noise Generation (CNG)
- Real time Fax over IP according to ITU-T T.38 and G.711 basic fax pass-through (RFC3362)
- Supported Codecs: G.711a- $\mu$ -law, G.726, G.729a
- max. 4 calls in parallel
- Automatic renegotiation of codec according to available bandwidth
- Traffic flow control to guarantee voice quality
- Choice of POTS or ISDN Backup Line
- Automatic selection of Landline for Emergency Calls
- Manual selection of Landline or VoIP Mode for phone calls

### Call Features

- Basic outgoing/incoming call, Caller ID (CLIP), CLIR, Call Hold, Call Waiting, Call Forwarding, 3-Party-Conference, Speed Dialing, Dialing Rules, Carrier Pre-Selection, Country Code/Area Code, Call Log List

## Configuration/Management

- User-friendly web configuration interface; password protected access with 2 login levels (user, admin); Online Help for user; multiple Language Support: German and English, other languages on request
- Installation Wizard for Internet, Telephony and Wireless LAN
- Telnet Session for Local or Remote Management
- Firmware upgrades through HTTP, TFTP, or FTP
- Configuration File Backup and Restore
- Support of TR-069 and TR-104

## Certificates & Environment

### EMC

- Emission: EN 55022, Class B
- Immunity: EN 55024
- Electromagnetic Field: EN 50371
- Wireless LAN: EN 301489-17 and EN 300328

### Resistibility

- ITU-T K.21

### Safety

- EN60950-1

### Environmental Conditions

- ETS 300019
- Operating Temperature: 5 to 40°C
- Storage Temperature: -25 to 55°C
- Transportation Temperature: -40 to 70°C
- Relative Humidity: 5% to 95% (non-condensing)

### Compliances

- RoHS: 2002/95EG
- CE Marking

## Dimensions / Weight

### NET

- 215 x 157 x 32 mm / 0.498 kg

### Gross

- 264 x 209 x 116 mm / 1.426 kg

## Ordering Number

IAD SLI-5390 (Annex A): S1622-Z27-A

EAN: 40 255 15 22376 4

IAD SLI-5390-I (Annex B): S1622-Z26-A

EAN: 40 255 15 22363 4

© Siemens Switzerland Ltd 2008

Broadband

Albisriederstr. 245, CH-8047 Zürich

Fax: +41 585 543 719

eMail: broadband.sales.ch@siemens.com

Printed in Switzerland (04-20080714)