

# SpeedTouch™ 985

## Residential ADSL Triple-Play Gateway



SpeedTouch 985

### Next Generation Device for Next Generation Networks

To offer exciting new broadband services to their customers, service providers are looking for a rich, solid, reliable, and upgradeable platform to deploy in the homes. The SpeedTouch 985 Residential ADSL Triple-Play Gateway has been designed specifically with these objectives in mind and represents a new step forward when it comes to making Triple-Play a reality.

The SpeedTouch 985 is an ADSL gateway combining multiple integrated wireless LAN access points, an integrated 4-port Ethernet switch, USB master and slave ports, an integrated VoIP telephone interface and an integrated IP set-top-box. The SpeedTouch 985 offers seamless connection

of wired and wireless, data, voice and video from anywhere in the home with the convenience of a consumer electronics device.

### A solid platform as the foundation for building value-added services

Based on an expertise gained from millions of ADSL gateways sold to service providers around the world the SpeedTouch 985 offers the reliability required to deploy a complex mix of services.

The State-of-the-art integrated modem supports ADSL, ADSL2 and ADSL2+.

With an integrated 802.11g access point, speed, security, and performance are guaranteed. When

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using 802.11g, you can transfer data at up to 54Mb/s (five times the speed of older 802.11b wireless networks), and still connect to existing 802.11b products. Due to the physics of the 5GHz modem, the 802.11a band is better suited for QoS sensitive services like audio and video streaming.

The Bluetooth access point can be used in parallel to connect PDAs and phones directly to the Internet.

A traditional analog phone plugged into the modem is all it takes to get access to VoIP services and start enjoying the benefits of next-generation telephony.

A printer can be connected directly to the USB master port of the SpeedTouch 985(i) and shared across all the devices on the home network.

DiffServ IP Quality-of-Service (QoS) and Wireless QoS such as WME prioritize data streams and guarantee local delivery of time-sensitive media to nodes on the home network.

The FLEXIBundle architecture enables service providers to define, manage and evolve the characteristics of the service offered by the SpeedTouch to the end user. This allows a SpeedTouch 985 to adopt the specific features of a differentiated service offering. The basis for this architecture is an extensive multi-role, multi-user management framework that allows each individual service to be enabled or disabled independently and remotely.

### Voice services

The SpeedTouch 985 offers two analog phone connectors. Once registered with a VoIP service regular phone calls can be conducted over the Internet offering all the benefits of IP telephony. The SpeedTouch 985 natively offers services like Caller ID, CLIR, call waiting, call transfer, 3-way conference and message waiting notification.

Also, Bluetooth Cordless Telephony Profile support makes it possible for users to place telephone calls over the Internet from compatible mobile phones within range of the access point.

### Video services

The IP Set-Top-Box component offers support for sophisticated application such as video interactive guide, TV web browsing or TV email through combination of the integrated MPEG-2 and MPEG-4 – part 10 decoders, MP3 decoder and web browser.

Intellectual property protection and secure content delivery is ensured by support for DES, DVB and AES video encryption systems.

### Remote Management

With the increasing complexity of the infrastructure required to deliver broadband services, implementing a solution to remotely manage and troubleshoot CPE has become a necessity. The SpeedTouch 985 is fully compliant to DSL Forum TR-069 specification for remote management of CPE. This compliance is duly and permanently validated through extensive interoperability testing with the major management system vendors.

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### Technical summary

#### ▶ Hardware specifications

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- Interfaces
  - LAN
    - Wireless: Simultaneous operation of IEEE 802.11b and 802.11g
    - 4 x Ethernet (RJ45) ports (10/100BaseT HD/FD)
    - USB 1.1 slave port
  - WAN
    - ADSL (RJ11) for ADSL G.dmt (G.992.1) Annex A, B
    - ADSL G.lite (G.992.2)
    - ADSL2 G.dmt2 (G.992.3) Annex A, B, L
    - ADSL2+ G.dmtplus (G.992.5) Annex A, B
  - Video
    - SCART to TV- RGB and Composite video
    - SCART to/from VCR
    - RCA Type - Left & Right Stereo Audio
    - Optical - S-PDIF Dolby Digital output
  - Voice
    - 2 x FXS
    - 1 x FXO
    - Bluetooth
  - Expansion
    - USB 2.0 host
  - LED indicators for all LAN and WAN interface ports
- Temperature: 0°-40° C (32°-105°F)
- Humidity: 20% to 80%
- AC Voltage: 100 - 120VAC/220 - 240VAC, 50-60Hz

#### ▶ Wireless Performance

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- Typical Indoor coverage: 60m
- Dynamic rate switching
- Manual/auto channel selection
- Manual/auto selection of pure 802.11g/mixed mode (802.11b/g) network
- Performance optimisation for ADSL traffic profile
- Wireless Distribution System (WDS)

#### ▶ Security

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- 802.1x/PSK WPA (WPA-PSK)
- 64/128bit WEP encryption
- Wireless client registration/access control (with physical push button)
- SSL

#### ▶ Services

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- Multi User High Speed Internet Access
- FLEXIBunDLE
  - Micro-modular activation and management of Gateway Functionality
- Content Filtering
  - Basic: URL white list/blacklist
  - Standard: Subscription based URL blocking using a network located URL database for URL classification
  - Advanced: Standard Content Filtering augmented with a more granular manageability

#### ▶ Management

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- FLEXIBundLE multi level - multi role management
- Intuitive GUI via http and https
- Home Network Install Wizard support
- Web based Easy installation (OS independent)
- Intuitive web interface
- Command line interface (CLI) via telnet
- SNMP, Eventlog
- SW upgrade
  - From remote management station (dual FLASH banks)
  - Via web GUI
  - Through Easy SW upgrade Wizard

#### ▶ Data features

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- Bridging/Relay-Ethernet / PPPoE
- Relay
  - PPPoX to DHCP relay
- Routing
  - PPP over Ethernet (PPPoE)
  - PPP over ATM (PPPoA)
  - IP over ATM (IPoA)
  - Ethernet over ATM (ETHoA)
- Connection sharing with Hyper-NAT
- UPnP support: enables game technologies (PS2, Xbox live, DirectPlay...) and conferencing functions of Microsoft Messenger
- DHCP server, client and relay
- DNS server, relay and client

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### Technical summary

#### ▶ Voice features

- Interfaces:
  - 2 x FXS
  - Bluetooth CTP, PAN
  - FXO: includes both analogue FXO support (with relay) and full FXO support (with dial plan)
- Signalling:
  - SIP, H.323, MGCP
- Codecs:
  - G.711 a/μ
  - G.723
  - G.729
- Services:
  - Fax transparency, V.92 transparency, Caller Identification CLIR, Call Waiting, Call Transfer, 3-way conference, Message Waiting Notifications

#### ▶ Video Features

- SNMPv2
- IGMP Multicast
- RTSP for VOD
- HTML 4.0, Javascript 1., SSL
- DES/DVB Descrambler
- EAS support
- Alpha blending, 2D graphics
- Macrovision
- Closed caption, subtitles
- Teletext support
- Video scaling, translucency and picture in graphics
- IR receiver for remote/keyboard
- MPEG-2, MPEG-4 part 10 / AVC / H.264
- Picture-in-picture (PIP)
- Optional DVB-T / DVB-S
- Optional integrated Hard Disk / PVR

#### ▶ Supported languages

- English, French, Spanish, Italian, German, Dutch, Portuguese, Swedish

#### ▶ Certifications

- CE, FCC, UL
- Radio regulations:
  - US: FCC part 15.247, 15.205, 15.209
  - Europe: ETS 300 328
- Wi-Fi interoperability certification by WECA

#### ▶ Options

- IR keyboard



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#### ▶ For more information: [www.speedtouch.com](http://www.speedtouch.com)

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