

SpeedTouch™ 585/585i Residential Wireless ADSL2+ Gateway



SpeedTouch 585/585i



With the SpeedTouch 585(i), users can experience wireless freedom at lightning-fast speeds. The SpeedTouch 585(i) is an 802.11b/g wireless LAN access point with integrated ADSL. Featuring an integrated 10/100Mb/s 4-port switch, the SpeedTouch 585(i) offers seamless connection of wired and wireless worlds from anywhere in the home.

The SpeedTouch 585(i) lets you share files, printers, and a single broadband ADSL Internet connection with unmatched performance and security, whilst preserving the flexibility and features of a fully fledged professional routing engine. The integrated modem supports ADSL and ADSL2, and ADSL2+.

With a simultaneous operation of 802.11b and 802.11g, speed, security and performance is guaranteed. When using 802.11g components, 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.

The SpeedTouch 585(i) also supports powerful security mechanisms such as Wi-Fi Protected Access™ (WPA), Wired Equivalent Privacy (WEP) encryption, and a physical user registration button, which allow users to communicate and access data with efficient link quality and the highest level of network security.

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Easy to install

The SpeedTouch Wireless Home Install Wizard makes setting up a home wireless network as easy as Ethernet, thereby drastically reducing helpdesk calls. This unique and robust mechanism configures and secures your SpeedTouch ADSL access point and wireless network clients from a single CD. The wizard performs comprehensive system checks before and during the installation process, and validates all user inputs, in order to guarantee the end-user a secured wireless connection (using WEP or WPA) to the Internet.

Secure

The SpeedTouch firewall guarantees users the ultimate level in network security. Through integration with Hyper-NAT, the firewall leverages all the ALGs provided in the Hyper-NAT context to minimize undesired service impact. The SpeedTouch firewall provides stateful inspection of packets, and an integrated Denial of Service (DoS) engine monitors a wide range of attack patterns, and logs potential security breaches to a local cache or remote server.

Filtering of unwanted content on the Internet also got integrated in the SpeedTouch 585(i). Three levels of content filtering are available:

- Basic Content Filtering provides white list/blacklist based url filtering, which can be maintained locally or remotely.
- Standard Content Filtering provides subscription based URL blocking using a network located URL database for URL classification.
- Advanced Content Filtering is a subscription-based service that additionally provides a dynamic mechanism for classifying and blocking content.

The classification database is an on-line store of characterized URL's, which is continuously updated. The SpeedTouch Gateway queries the database for each HTTP request and decides on serving the page based on the policy assigned to the requestor.

Services

The SpeedTouch 585(i) supports a number of features, which guarantee efficient and robust delivery of multimedia services from the core of the network right to the end user.

- TR-37 enables auto-configuration of network bandwidth according to service needs, allowing seamless integration with the network's provisioning system.
- Diffserv IPQoS
- WiFi QoS such as WME guarantee local delivery of streamed media to the service delivery nodes
- The optional dedication of the 5GHz spectrum to streaming media adds robustness to the WiFi delivery path.
- Smart DNS and DHCP supports smooth introduction of media delivery nodes like Set Top Boxes, VoIP phones, etc.

FLEXIBundle

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 585(i) 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 component of the Gateway to be (de-)activated independently and remotely.

Hyper-NAT with IP pass-through

Hyper-NAT delivers absolute flexibility in managing any type of Network Address and/or Port translation, enabling seamless operation of servers on the local network. An extensive list of Application Level Gateways complete this powerful architecture to simultaneously enable services like:

- any-to-many IPsec,
- L2TP and PPTP pass-through
- IP pass-through
- SIP, H.323, H.450, ...
- FTP, RTSP, IPv6inIPv4, Jabber, Netmeeting, Microsoft Messenger ...

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Technical summary

▶ Hardware specifications

- Interfaces
 - LAN
 - Wireless: Simultaneous operation of IEEE 802.11b and 802.11g
 - 4 x Ethernet (RJ45) ports (10/100BaseT HD/FD)
 - WAN
 - ADSL (RJ11) for ADSL/POTS and ADSL/ISDN
 - LED indicators for all interface ports
- Housing
 - Stand up- lie down design (vertical stand is optional)
- Temperature
 - 0-40 C (32-105F)
- Humidity
 - 20% to 80%
- AC Voltage
 - 100-120VAC/220-240VAC, 50-60Hz

▶ ADSL Modem Specifications

- ADSL (ANSI, ETSI T1.413, G.dmt Annex A/B (POTS/ISDN), G.lite)
- ADSL2 (G.dmt2 Annex A, B, L)
- ADSL2+ (Annex A,B)

▶ Wireless Performance

- 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

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

▶ Services

- 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

- 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

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Technical summary

► Data features

- Bridging/Relay
 - Ethernet / PPPoE
- Relay
 - PPPoX to PPTP relay
 - PPPoX to DHCP relay
- Routing
 - PPP over Ethernet (PPPoE)
 - PPP over ATM (PPPoA)
 - Classical IP (CIP)
 - Ethernet over ATM (ETHoA)
- Connection sharing with Hyper-NAT
- Stateful Firewall
- 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

► 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

► Content of the box

- SpeedTouch 585/585i
- Installation CD (Wireless Home Install Wizard)
- Ethernet cable (RJ45)
- Telephone cable (RJ11)
- Stand for vertical use (optional)
- Cable filters (optional)
- Power Adaptor (18VAC)
- Quick Installation Guide
- Wall mounting screws and plugs

► Related products

- 802.11g:
 - SpeedTouch 110g: Wireless PC Card
 - SpeedTouch 121g: Wireless USB Client
 - SpeedTouch 180: Wireless Ethernet Bridge
- 802.11b:
 - SpeedTouch 110: Wireless PC Card
 - SpeedTouch 120: Wireless USB Client



► For more information: www.speedtouch.com

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