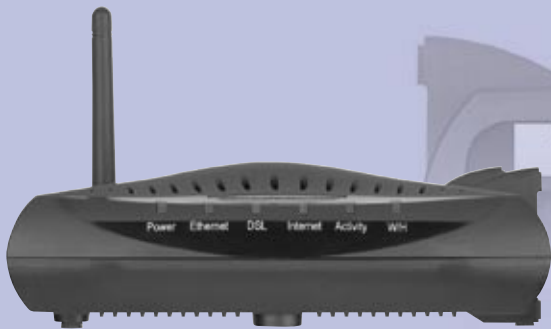


SpeedStream®



SpeedStream® Residential Gateway Family

Compact DSL and wireless networking solution

6500, 6510, 6515, 6520, 6530, 6540

>Flexible Connectivity Options

Seamless, standards-based wireless networking interoperates with other 802.11g or 802.11b compliant networks and devices. Available 10/100 Ethernet, USB, HPNA and Powerline connectivity options provide the solution for almost every subscriber need.

>Configuration Wizards

Gateway wizards guide users step-by-step through initial setup and user profile configurations, making the home or SOHO network setup simple and effortless minimizing support requirements.

>Multi-User Profiles

Through the use of individual user profiles for every user in the home, providers are able to market multiple services to fit each user's personal needs and interests.

>Parental Controls

Allow subscribers to protect their family from Internet dangers using parental control features such as site access and time-of-day controls in addition to monitoring and logging capabilities.

The SpeedStream® Residential Gateway family enables service providers to offer residential subscribers the most comprehensive choice of LAN connectivity options available today. In addition to standard 802.11g/b wireless and Ethernet networking, optional USB, HPNA, and Powerline connectivity provides a full suite of connectivity solutions for various broadband environments.

*Support for ADSL2, ADSL2+, and RE-ADSL technology means SpeedStream® Residential Gateways provide greater speeds (up to 24 Mbps downstream and 1 Mbps upstream) and extended subscriber reach.

The SpeedStream® Residential Gateway family shares a common software platform, ControlNet™ providing a consistent human factors experience for different networking requirements. Deploying CPE sharing a common software platform provides more efficient training and technical support resulting in lower service provider costs.

ControlNet™ includes a fully customizable interface which enables promotion and branding of broadband services with provider logos, colors and marketing messages. Brandability provides greater service provider presence with subscribers and helps combat churn.

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*Available with certain firmware versions.

Features and Benefits

- Available 10/100 switched ports – Connect multiple PCs to securely share a broadband DSL modem connection
- Provides the flexibility of connecting PCs via Ethernet or USB (Models 6510, 6520, 6530, 6540)
- One Ethernet port may be configured as a WAN interface for a two-box solution on select models
- Integrated 802.11g/802.11b wireless interface for up to 54 Mbps/11Mbps max. data rates*
- WPA & WEP encryption for wireless security
- Configurable ICSA™-compliant Stateful Inspection Firewall with Denial of Service (DoS) protection, provides secure communication and Internet access
- Enables multiple LAN devices to share a PPPoE session
- User-friendly wizards enable effortless subscriber configuration
- Web-based management and diagnostics, along with Web-based (HTTP) configuration of PPPoE parameters enables easy deployment
- Concurrent NAT and NAPT
- Support for G.lite and full-rate ADSL, ADSL2, ADSL2+, and RE-ADSL ensure compatibility with most DSL networks
- UPnP IGD insures seamless integration into Windows® XP environments
- Wi-Fi™ certified ensuring outstanding wireless performance
- Enhanced online gaming features such as DMZ and Firewall “Snooze”

Technical Specifications

Routing

- RFC 2364 Point-to-Point Protocol over ATM (PPPoA) PVCs
- RFC 2516 Point-to-Point Protocol over Ethernet (PPPoE)
- RFC 2684 (formerly 1483) Bridged Ethernet encapsulation
- RFC 2225 (formerly 1577) Classical IP over ATM
- PPPoE Relay/Bridging
- Network Address Translation (NAT)
- Network Address Port Translation (NAPT)
- DHCP server/client/relay and DNS relay agent
- Configurable PAP and CHAP authentication
- TCP/IP with RIP1 and RIP2 or static routing on the LAN and/or WAN
- Dynamic DNS support
- IP QoS

Bridging

- RFC 2684 (formerly 1483) Bridged Ethernet over ATM PVCs
- IEEE 802.1d transparent, learning bridge
- Dynamic learning of up to 255 addresses
- Spanning Tree Algorithm
- AAL and ATM Support
- Precise Peak Cell Rate traffic shaping on a per-VCC basis
- Up to 8 active VCCs across VPI 0-255, VCI 0-65535 address range

*Actual Data Rates may vary

- ATM Forum UNI3.1/4.0 PVC
- ATM Traffic class: UBR, UBR+, CBR, VBRnrt, VBRrt
- OAM F5

Management

- Web-based graphical user interface
- Instant operation from an operator-defined service profile
- Intuitive Command Line Interface (CLI)
- Telnet console
- SNMP v1
- UPnP IGD-NAT traversal support
- XML Management Scheme, DSL Forum 2002-281
- User profile wizard
- WAN interface configuration wizard
- Product architecture designed to accommodate WT-82 and WT-87 management standards

Wireless

- Dual-mode 802.11g/802.11b radio
- 64/128 bit WEP engine
- Wireless client filtering and SSID broadcast disable

Security

- PAP (RFC 1334), CHAP (RFC 1994)
- Password Authentication
- 3-level Access Control list
- Stateful Inspection Firewall with Denial of Service (DoS) protection
- Pre-configured firewall levels for ease of use with “Custom” level for advanced users
- Filter on source and/or destination IP address
- Filter on transport protocol and/or port number
- Firewall logging with Network Time Protocol support and Syslog support
- DMZ support and Firewall “Snooze” feature
- Graphical User Interface
- Content filtering
- WPA/WEP wireless encryption
- ICSA compliancy mode

Diagnostics

- Comprehensive hardware diagnostics
- Comprehensive Ethernet, ATM, and ADSL statistics
- Comprehensive system log

Media Interface

- RJ-11 ADSL connection
- 10/100 Switched Ethernet ports with Auto MDI/MDIX support

- Standard USB connection (models 6510, 6520, 6530, 6540)
- Integrated 802.11g/802.11b wireless
- Integrated HPNA 2.0 interface (models 6530, 6550)
- Integrated HomePlug interface (model 6540)

Visual LED indicators

- Power, Link, and Activity indicators for ADSL, Ethernet, USB, Wireless, HPNA, HomePlug

Power

- External Power Supply:
Input: 120VAC, 800mA, 60Hz
Output: 12V/1A

Standards Compliance

- IEEE 802.1d, 802.3, and 802.3u
- ADSL: G.dmt, G.lite, G.dmt.bis, ANSI T1.413 Issue 2 ADSL2, ADSL2+, RE-ADSL
- USB 1.1 (Models 6510, 6520, 6530, 6540)
- 802.11g/802.11b
- HPNA 2.0
- HomePlug 1.0.1

Certifications

- FCC Part 15, Class B; FCC Part 68; CE certification; UL listed; CSA; CS-03;
- Industry Canada Mark
- Wi-Fi
- WQHL

Warranty

- 1 year parts and labor for hardware
- Additional year available with product registration

System Support/ Minimum Requirements

Ethernet Installation

- 10 Base-T Ethernet NIC
- Operating system that supports TCP/IP over Ethernet

USB Installation (USB Models Only)

- Windows® 98, 98SE, 2000, Me, or XP
- Mac OS 8.6-10.2.4
- Pentium processor 166 MHz or faster
- 32 Mb RAM
- 10 Mb free disk space
- Free USB 1.1 or higher port

SpeedStream® Residential Gateway Family Available Models

Model	WAN ADSL	802.11g/b	10/100 Ethernet	USB	HPNA 2.0	HomePlug	Ethernet WAN
6500	X	X	1				
6510	X	X	1	X			
6515	X	X	4				
6520	X	X	4	X			X
6530	X	X	4	X	X		X
6540	X	X	4	X		X	X

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