SpeedStream®

SpeedStream® DSL Modems, PPPoE Modems, and Routers

Broadband Connections via Ethernet or USB

4100, 4200

Features

> **Extensive Standards Support** – *Compliance to ADSL2, ADSL2+ and RE-ADSL offer providers the ability to extend their reach to subscribers with greater performance.

> **PPPoE Client** (PPPoE Modems and Routers only) – Embedded PPPoE client means no additional PC software is needed for broadband connectivity. An intuitive, web-based graphical user interface (GUI) makes installation effortless. Pre-configured Application Level Gateways (ALGs), support most popular games and applications, making remote interaction a snap.

> **Corporate-Class Security** (Router only) – ICSA-compliant Stateful Inspection Firewall with Denial of Service (DoS) protection provides advanced security for Internet connections by preventing unauthorized access and shielding against outside attack. A choice of pre-defined or fully custom settings, make online security a reality - even without an IT staff.

> **Cost Effective** – SpeedStream® 4100 and 4200 modems provide a cost-effective, full-featured DSL solution for subscribers. Their user-friendly installation and setup make technical support costs more manageable.

The 4100 Ethernet model works with any Ethernet equipped PC, regardless of operating system, while the 4200 Ethernet/USB combo model's dual interface is almost like two products for the price of one. Subscribers get the flexibility of connecting with convenient Ethernet or using effortless, plug-and-play USB, maximizing deployment options and subscriber value.

The SpeedStream® PPPoE Modem and Router's Web-configurable, embedded PPPoE client means service providers get easy deployment and activation while users get connected without loading software.

SpeedStream® DSL Routers have full-featured Web-based management and diagnostic tools, making support a snap. Their comprehensive routing features include: support for Network Address Port Translation (NAPT); Dynamic Host Configuration Protocol (DHCP); and Domain Name Server (DNS) relay.

*Support for ADSL2, ADSL2+, and RE-ADSL standards with with streamlined deployment and interface flexibility make SpeedStream® DSL Modems, PPPoE Modems, and Routers the perfect solution for residential CPE deployments.

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Designed for Microsoft® Windows®2000 Windows®Me

Designed for Microsoft® Windows®XP

*Available with certain firmware versions.

Features and Benefits

- Web-based (HTTP) configuration of PPPoE parameters allows easy deployment (PPPoE Modems and Routers only)
- Configurable ICSA-compliant Stateful Inspection Firewall with Denial of Service (DoS) protection, provides secure communication and Internet access (Routers only)
- Concurrent NAT and NAPT (Routers only)
- Available models provide the flexibility of connecting PCs via Ethernet or both USB and Ethernet
- 10/100 Ethernet provides full-rate LAN performance
- Up to 24 Mbps downstream and 1.5 Mbps upstream provides true broadband experience for subscribers
- Support for G.lite and full-rate ADSL, ADSL2, ADSL2+ and RE-ADSL ensure compatibility with most DSL networks
- 4200 model features simultaneous Ethernet and USB connectivity, allowing two PCs with discrete IP addresses or PPPoE clients to share a DSL line
- 4200 model is WHQL (Windows Hardware Quality Labs) certified, ensuring plug-and-play USB installation on any PC running Window® 2000, Me, or XP

4100 Backpanel View

4200 Backpanel View

Technical Specifications

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
- ATM Forum UNI3.1/4.0 PVC
- ATM Traffic class: UBR, CBR, VBRnt, VBRrt
- OAM F4/F5

Media Interface
- RJ-11 ADSL connection
- 10/100 Base-T RJ-45 Ethernet connection
- Auto-MDI/X
- Standard USB connection (4200 model only)

Visual LED indicators
- Power, ADSL, Ethernet, USB (4200 model only)

Power
- External Supply-
  Input: 120VAC, 300mA, 60Hz
  Output: 12V/1A

Standards Compliance
- IEEE 802.1d, 802.3, and 802.3u
- ADSL: G.DMT, G.LITE, ANSI T1.413 Issue 2, ADSL2, ADSL2+, RE-ADSL
- USB 1.1 (model 4200)

Certifications
- FCC Part 15, Class B
- FCC Part 68
- CE certification
- UL listed
- CSA
- CS-03
- Industry Canada Mark
- WQHL (4200 model only with Windows® 2000, Me, or XP)

Warranty
- One (1) year parts and labor for hardware
- Additional year available with product registration

System Support/Minimum Requirements
- Ethernet Installation
- Ethernet NIC
- Operating system that supports TCP/IP over Ethernet

USB Installation
(4200 model only)
- Windows® 98, 98SE, 2000, Me, or XP
- Pentium® processor 166MHz or faster
- 32 MB RAM
- 12 MB free disk space
- Free USB 1.1 or higher port

PPPoE Modem Additions
Routing
- RFC 2516 Point-to-Point Protocol (PPP) over Ethernet
- DHCP server, DNS relay
- PPPoE Relay/Bridging

Management
- Web-based graphical user interface
- Instant operation from an operator-defined service profile

Security
- PAP (RFC 1334), CHAP (RFC 1994)
- Password Authentication

Router Additions
Routing
- RFC 2364 Point-to-Point Protocol (PPP) over ATM PVCs
- RFC 2684 (formerly 1483) Bridged Ethernet encapsulation
- RFC 2225 (formerly 1577) Classical IP over ATM
- Network Address Translation (NAT)
- PAP or CHAP Auto-detection
- TCP/IP with RIP1 and RIP2 or static routing on the LAN and/or WAN

AAL and ATM Support
- Up to 8 active VCCs across VPI 0-225

Management
- Intuitive Command Line Interface (CLI)
- Telnet
- SNMP v1

Security
- PAP (RFC 1334), CHAP (RFC 1994), MS-CHAP
- 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

Diagnostics
- Comprehensive hardware diagnostics
- Comprehensive Ethernet, ATM, and ADSL statistics

Media Interface
- Auto-MDI/X

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