SpeedStream
5260

ADSL LAN Modem
Installation Guide

Efficient Networks, Inc.®

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> Efficient Networks, Inc.
> 4849 Alpha Road
> Dallas, Texas 75244

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Efficient Networks, Inc. Hardware Warranty

Efficient Networks, Inc. (EFNT) warrants this LAN modem for a period of 1 year against defects in material or workmanship from the date of purchase. This warranty extends to the original consumer of this product. If the unit does not function as warranted during the warranty period, Efficient Networks, Inc. will either repair the defective product or replace it with a new or remanufactured functionally equivalent product of equal value

Introduction

About the 5260 LAN Modem

The SpeedStream 5260 ADSL LAN modem provides high-speed connectivity between a local Ethernet network segment and an Asymmetric Digital Subscriber Line (ADSL) segment.

The ADSL segment provides for a single Asynchronous Transfer Mode (ATM) permanent virtual circuit (PVC) used for connectivity to Wide Area Network (WAN) devices.

The 5260 is designed to "plug and play." Setup of the 5260 is as simple as connecting it to a PC that is equipped with an Ethernet adapter card or to a hub on an Ethernet LAN and then connecting it to a DSL wall jack.

ADSL Data Rate Support

The 5260 uses Discrete Multi Tone (DMT) data transmission technology. When the unit is powered on, it will connect to your service provider. Once this connection is established, the unit will negotiate the highest possible data rate. This process is transparent to the user and rates achieved are dependent upon the data rates supported by your service provider.

What Systems are Supported?

The 5260 can be connected to any 10Base-T Ethernet networking device such as a hub, PC, workstation, or laptop equipped with an Ethernet network interface card (NIC). The 5260 also requires a telephone line that supports ADSL.

5260 Configuration Settings

The following table shows the factory-default configuration of the 5260. These settings are not user-configurable.

ATM Interface	• One Permanent Virtual Circuit supported
	• F4/F5 looback cells supported
	• Logical Link Control (LLC)/ Subnetwork Access Protocol (SNAP) encapsulation over ATM per RFC 1483, Multiprotocol Encapsulation over ATM Adapter Layer 5
Ethernet Interface	Up to 10 Mbps, default is half duplex communication mode
Bridging	• LLC encapsulation of Ethernet packets to/from the ATM interface
	• LLC duplication supported (forwards frames whose source address and destination address are the same)
	• Supports learning of up to 1024 MAC addresses

Hardware Installation

Installation Requirements

To install the 5260 ADSL LAN modem, you will need the following:

- A computer equipped with an Ethernet network interface card (NIC) or an Ethernet hub
- A DSL-ready telephone line installed at the desired installation site
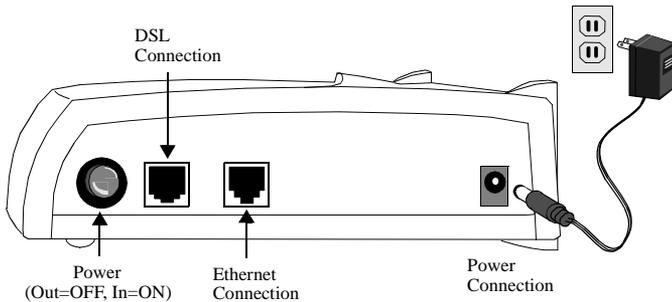
Package Contents

Your package should contain the items listed below. If anything is missing or damaged, please contact the dealer from whom the equipment was purchased.

- 5260 LAN modem unit
- Power supply
- One RJ11 unshielded twisted pair (UTP) cable (for the DSL connection)
- One RJ45 UTP straight-through cable (for direct connection to a PC with a NIC installed)
- *Installation Guide, Safety and Certification* booklet, and *Release Notes* (if applicable).

Installation Instructions

NOTE: The labels for the back panel of the 5260 are located on the underside of the unit.

1 Be sure the Power button is in the OFF position.

2 Plug the power cable into the power connection on the back of the unit; then connect it to a power outlet.

DSL Connection

Power (Out=OFF, In=ON)

Ethernet Connection

Power Connection

3 Connect the Ethernet port (**ENET**) on the 5260 to the Ethernet port on your computer using the gray-colored RJ45 cable provided. To connect the Ethernet port to a hub, you must use a crossover cable (not included).

4 Use the RJ11 cable to connect the 5260's **DSL** port to the DSL service port (wall jack) installed by your DSL service provider.

5 Press the Power button to turn on the unit.

6 Check the front panel LEDs (described in the next section) for proper functioning.

5260 Front Panel

The 5260 is equipped with four LEDs on the front panel: the System LED (**sys**), ATM LED (**atm**), DSL LED (**dsl**), and Ethernet LED (**enet**).

1. First, the **sys** LED will come on. It turns solid green when the unit has finished passing diagnostic tests.

2. The **enet** LED will then begin to flash green when Ethernet traffic is detected.

3. The 5260 will begin negotiation of the optimum transmission rate and attempt to train the line at the highest rate available. This process usually only takes a minute, but if renegotiation of data rates is necessary, it may take several minutes during which time the 5260 is not yet operational.

4. While the unit negotiates the DSL line rate, the DSL LED will blink yellow/green alternately. The LED will turn solid green when a link is established.

5. The **dsl** LED will show solid green when it is ready to transmit data. The **atm** LED will flash green indicating traffic flow on the WAN interface.
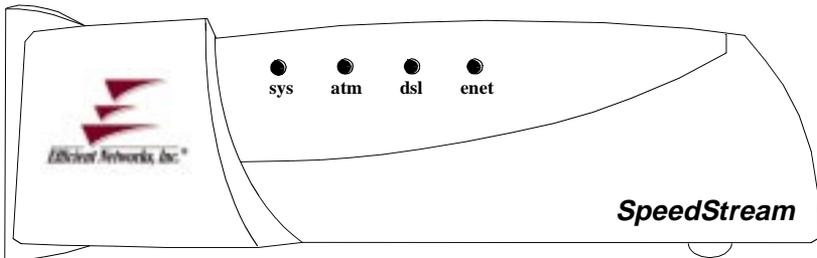
Table 1   5260 LED Indicator Descriptions

LED	Unlit	Red	Yellow	Green
sys	Power not applied	Power on self test (POST) error occurred; call customer support to report problem	Power on self test (POST) in progress	Normal system operation
atm	• Power not applied • No ATM cell delineation	ATM diagnostic failure	N/A	**Blinking**: ATM cell delineation and traffic flow **Solid:** ATM ready
dsl	Far-end signal not detected; check cable connection	• DSL error has occurred • LAN modem is not configured correctly	Line not yet trained **Blinking**: Attempting to train line	**Blinking:** Attempting to train line **Solid**:Line is trained and ready for data traffic
enet	Power not applied	No Ethernet link detected; check cable connection, ensure correct cable was used.	**N/A**	**Blinking**: Ethernet traffic flow **Solid**: Ethernet ready

SpeedStream 5260 LAN Modem Specifications

Size	5.5W in. x 7D in. x 1.5H in. (14W cm x 17.8D cm x 3.8H cm)
Weight	1.25 lbs Bridge Only (0.57 Kg)
Power	Wall-mount 12 watt AC to DC adapter. 12-18vDC @ 1.1 amp output. AC input to meet country specific input requirements. North America: 115 Vac, 60 Hz, .2 amp max Europe: 220 Vac, 50 Hz, .1 amp max Other: 230 Vac, 60 Hz, .1 amp max
Temperature	Operating: 0 to 40° C Non-Operating, storage: -10 to 85° C
Humidity	10% to 90% noncondensing
Ethernet Interface	
Cabling	Unshielded Twisted Pair (UTP) Category 3, 4, or 5 (IEEE 802.3 Standard Compliant)
Connector	Eight-contact, shielded RJ45
DSL Interface	
Connector	Two-contact, shielded RJ11 (pins 3 & 4) isolation per IEC 950
Operating distance	18,000 feet maximum on standard 26 AWG copper pair wire