

AT-8600 SERIES

QUICK INSTALL GUIDE



Documentation Roadmap

AT-8600 Series



AT-8600 Series Safety and Statutory Information Booklet



AT-8600 Series Quick Install Guide



AT-8600 Series User Guide



AT-8600 Series Software Reference



AT-8600 Series Hardware Reference

Expansion Module



Expansion Module Installation Guide

General Customer Support



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Website

Models Covered By This Guide

This Quick Install Guide includes information on the following models:

- AT-8624T/2M 24-port 10BASE-T/100BASE-TX Advanced Fast Ethernet Switch

Quick Install Guide updates can be downloaded from www.alliedtelesyn.co.nz/support/at8600/.

Package Contents

The following items are included with each AT-8600 Series switch. Contact your sales representative if any items are damaged or missing.

- One AT-8600 Series switch.
- One AC power cord.
- One power cord retaining clip.
- One serial cable for connecting the switch to a terminal or PC.
- One 19 inch rack-mount kit.
- One AT-8600 Series Quick Install Guide.
- One Safety and Statutory Information booklet.
- One AT-8600 Series Documentation and Tools CD-ROM (which includes the complete AT-8600 Series Document Set and utilities).
- One warranty card.

Selecting a Site

The switch can be installed in a standard 19-inch rack or on a level surface such as a desktop or bench. When installing the switch, choose a site that:

- Allows adequate airflow around the switch and its vents.
- Is free of dust and moisture.
- Will maintain an ambient temperature range of 0 to 40° C (32 to 104° F) and a humidity range of 5 to 95% non-condensing.
- Has a reliable and earthed (grounded) power supply circuit, preferably dedicated and filtered.
- Does not expose cabling to sources of electrical noise, such as radio transmitters, broadband amplifiers, power lines, electric motors, and fluorescent fixtures.
- Allows easy access to the switch's power and cable connections.
- Will allow all related network devices to be connected to the switch without exceeding maximum cable length limitations. See the *AT-8600 Series Hardware Reference* for cable length specifications.

Installing the Switch



All versions of this equipment must be earthed.

Follow these steps to install the switch:

1. Before installing the switch, read the safety information

For safety information, see the *Safety and Statutory Information* booklet. A copy of this booklet is supplied with each switch, and can also be found on the Documentation and Tools CD-ROM or at www.alliedtelesyn.co.nz/support/at8600/.

2. Gather the tools and equipment you will need

To install the switch in a rack you will need a Phillips #2 screwdriver. You will also need screws and cage nuts to attach the brackets to your rack.

3. Choose a suitable site for the switch

Either a flat surface or 19 inch rack.

4. Unpack the switch

Verify the package contents. If any items are damaged or missing, contact your sales representative.

5. Install expansion modules (optional)

The expansion module supported by the AT-8624T/2M is the AT-A46.

If you purchased expansion modules, install them now by following the instructions in the *AT-A45/xx Series, AT-A46, and AT-A47 Expansion Modules Installation Guide* that comes with the modules. The AT-A46 expansion module is supported by AT-8000 Series switches as well as AT-8600 Series switches.

Hot swap of expansion modules is not supported on AT-8624T/2M switches. If you insert or remove a module when the switch is already powered on, you must restart the switch before the module can be used.

6. Place the switch in its operating location

If installing the switch in a rack:

- Remove the rubber feet on the bottom of the switch with a flat-head screwdriver.
- Attach the two rack-mounting brackets to the switch with the screws provided.
- Mount the switch in the rack using standard screws (these are not provided).

7. Check the supply voltage and the switch's rated voltage

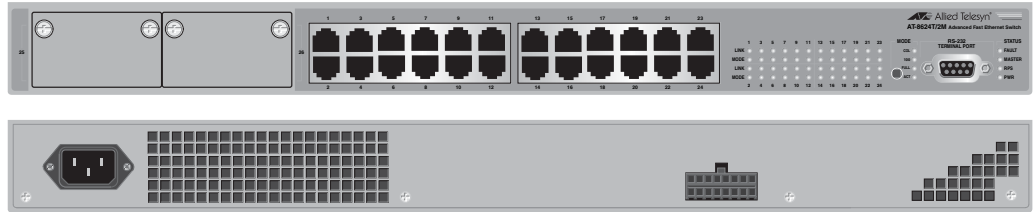
AT-8600 Series switches are fitted with a universal main power supply that will function over the range 100-240 VAC and 50-60 Hz.

The specific power supply requirements for a particular model are clearly displayed on the rear or underside of the switch. If the supply is outside the accepted range for the switch, the switch may not operate or damage to the switch may result.

8. Apply AC power to the switch

Plug the power cord into the AC power connector on the switch's rear panel as shown in Figure 1. The Fault LED should flash for approximately 10 seconds as the switch runs internal tests. If the LED continues to flash, refer to the *AT-8600 Series Hardware Reference* for troubleshooting information.

Figure 1: AT-8624T/2M front and rear panel with AC power inlet.



9. Check that the PWR LED on the switch's front panel lights green

If the PWR (power) LED fails to light, refer to the *AT-8600 Series Hardware Reference* for troubleshooting information.

10. Connect the data cables

Make sure each cable connection is secure. The switch will now perform basic Layer 2 switching functions.

Configuring the Switch

Some configuration is necessary if you wish to enable the switch's advanced switching capabilities. The switch can be configured via the Command Line Interface (CLI) or Graphical User Interface (GUI).

Using the CLI to configure a switch

I. Connect a terminal or PC to the Terminal Port (ASYN0)

Using the supplied RS-232 DB9 straight-through cable, connect your terminal or PC to the RS-232 Terminal Port on the switch's front panel.

2. Set the communication parameters

Set the communication parameters on your terminal or terminal emulation program to:

- Baud rate: 9600
- Data bits: 8
- Parity: None
- Stop bits: 1
- Flow control: None

3. Log in

After the switch has booted, the log-in prompt appears. If the log-in prompt doesn't appear, press [Enter] two or three times.

When the switch boots for the first time, it automatically creates an account with manager privileges. The account has the log in name "manager" and the password is "friend".

At the log in prompt, enter the log in name and password.

```
Login: manager
```

```
Password: friend
```

The switch's command prompt appears and you can now configure the switch using the command line interface.



Change the password as soon as possible. Leaving the manager account with the default password is a serious security risk. Make sure you remember the new password as there is no way to retrieve it if it is lost.



Use the following command to change the account password:

```
set password
```

4. Load help files

To display a list of help topics, enter:

```
help
```

To display help on a specific topic, enter:

```
help topic
```

Alternatively, type a question mark (?) at the end of a partially completed command to see a list of valid options.

See the *AT-8600 Series Software Reference* for more information on configuring the switch.

Using the GUI to configure a switch

This section describes how to establish a connection to the switch through the GUI, so you can configure the switch before installing it in your LAN. For more information about the GUI, see the *User Guide*.

1. Select a PC to browse to the switch from

You can browse to the switch from any PC that is running a supported operating system with a supported browser installed. JavaScript must be enabled.

You need to know the PC's subnet.



2. Connect the PC to the switch

Use an Ethernet cable to connect an Ethernet card on the PC to any one of the switch ports.

You can browse to the switch through any VLAN, as long as you give that VLAN an IP address (see below). These instructions assume you will use vlan 1. The switch ports all belong to vlan 1 by default.

3. Access the switch's command line interface

Access the CLI from the PC, as described in the previous “Using the CLI to configure a switch” section.

4. Enable IP

```
enable ip
```

5. Assign the vlan 1 interface an IP address in the same subnet as the PC

```
add ip interface=vlan1 ip=ipaddress mask=mask
```

6. Save the configuration and set the switch to use it on bootup

```
create config=your-name.cfg
```

```
set config=your-name.cfg
```

7. On the PC's web browser, bypass the HTTP proxy server, if necessary

8. Point your web browser at vlan 1's IP address

9. At the login prompt, enter the user name and password

The default username is manager:

User Name: **manager**

Password: **friend**

The System Status page is displayed. Select options from the sidebar menu to configure and manage the switch.

For context-sensitive online help, click on the Help button at the top of the sidebar menu or on any pop-up page.

LEDs on AT-8624T/2M Switches

This section describes the System and Port LEDs on AT-8624T/2M switches.

System LEDs

The switch's front panel has System LEDs that indicate its operational status.

System LEDs

LED	State	Description
FAULT	Off	Switch operation is normal
	Red	The switch or management software is malfunctioning
	1 Flash	A switch fan has failed
	7 Flashes	An expansion module has been inserted or removed while the switch is powered on
MASTER	This LED is not supported and will never be lit.	
RPS	This LED is not supported and will never be lit.	
PWR	Green	The switch is receiving power and the voltage is within the acceptable range

Port LEDs and the Mode Select Button

The Port LEDs on the front panel display port status information. Each port has two LEDs. The Link LED indicates whether there is a valid link between a port and the end-node connected to it.

Each port also has a Mode LED. This LED displays a variety of status information, including port speed and duplex mode. You use the Mode Select button on the front panel to toggle the Mode LEDs to display the different status information. The LEDs next to the Mode Select button

indicate the status being displayed by the port Mode LEDs. For example, if the Mode 100 LED is green, then the port Mode LEDs are displaying port speed.



Toggleing the Mode Select button does not affect the normal operations of the switch.

Port LEDs for the 10/100Base-TX Ports

LED	State	Function
LINK	Off	There is no link between the port and the end-node
	Green	A valid link has been established between the port and the end-node
Mode - COL	Off	No data collisions are occurring on the port.
	Flashing Green	Data collisions are occurring on the port.
Mode - 100	Off	The port is operating at 10 Mbps.
	Green	The port is operating at 100 Mbps.
Mode - FULL	Off	The port is operating in half-duplex mode.
	Green	The port is operating in full-duplex mode.
Mode - ACT	Off	There is no activity on the port.
	Flashing Green	There is activity on the port. It is transmitting and/or receiving data.

The *AT-8600 Series Hardware Reference* has more troubleshooting information, including information on Switch Port and Expansion Module LEDs.

Documentation and Tools CD-ROM

The Documentation and Tools CD-ROM bundled with each AT-8600 Series switch contains the complete Documentation Set for your switch and its expansion options, as well as tools for managing the switch. This includes:

- The *AT-8600 Series Safety and Statutory Information* booklet, which provides safety and statutory information for the AT-8600 Series switch and its expansion options.
- The *AT-8600 Series Hardware Reference*, which provides detailed information on the hardware features of AT-8600 Series switches.
- This Quick Install Guide.
- The *AT-8600 Series User Guide*, which introduces configuring the switch and its software.
- The *AT-8600 Series Software Reference*, which provides detailed information on configuring the switch and its software.
- The *AT-A45/xx Series, AT-A46, and AT-A47 Expansion Modules Installation Guide*, which outlines the procedure for installing expansion modules, and provides technical specifications for the modules.
- AT-TFTP Server for Windows for downloading software releases.
- Adobe Acrobat Reader for viewing online documentation.
- Microsoft Internet Explorer.

Accessing the CD-ROM and Online Documentation

This section provides a step-by-step guide to accessing online documentation. Adobe Acrobat Reader must be installed to view online documentation.

Follow these steps to access the CD-ROM and online documentation:

- I. Insert the AT-8600 Series Documentation and Tools CD-ROM in the CD-ROM drive.**

2. If the Welcome screen does not appear.

Select "Run" from the Start Menu (Windows 95, 98, 2000 or NT 4.0).

Type d:\start.exe (where d: is the CD-ROM drive letter) and click OK.

3. To view a document.

Click on the document title.

4. To navigate around PDF documents.

Use the toolbar buttons, keyboard shortcuts, or commands from the Document menu to page through the document.

Click on a bookmark, thumbnail or hypertext link to jump to a specific section or topic.

Use the Search command to search for keywords or phrases.

For more information about using the Adobe Acrobat Reader, select "Reader Guide" from the Help menu.

5. To install any of the tools included on the CD-ROM.

Click on a link in the Welcome screen.