



AT-8700XL Series Switch Quick Install Guide  
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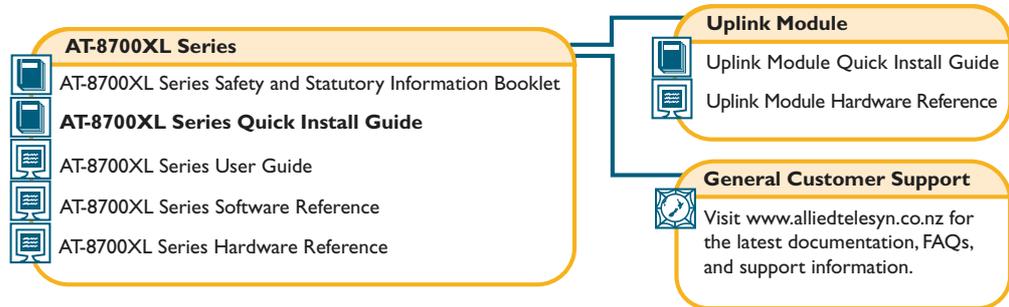
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## Documentation Roadmap



Printed



Acrobat PDF



Website

## Models Covered By This Guide

This Quick Install Guide includes information on the following models:

- AT-8724XL 24-port 10BASE-T/100BASE-TX Advanced Fast Ethernet Switch
- AT-8748XL 48-port 10BASE-T/100BASE-TX Advanced Fast Ethernet Switch

Quick Install Guide updates can be downloaded from [www.alliedtelesyn.com/support/documentation/](http://www.alliedtelesyn.com/support/documentation/).

## Package Contents

The following items are included with each AT-8700XL Series switch. Contact your sales representative if any items are damaged or missing.

- One AT-8700XL Series switch.
- One AC power cord (AC models only).
- One serial cable for connecting the switch to a terminal or PC.
- One 19 inch rack-mount kit.
- One AT-8700XL Series Quick Install Guide.
- One Safety and Statutory Information booklet.
- One AT-8700XL Series Documentation and Tools CD-ROM (which includes the complete AT-8700XL Series Document Set and utilities).
- One warranty card.

## Selecting a Site

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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-8700XL Series Hardware Reference* for cable length specifications.

## Installing the Switch

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*All AC and DC versions of this equipment must be earthed.*

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**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.alliedtelesis.com/support/documentation/](http://www.alliedtelesis.com/support/documentation/).

**2. Gather the tools and equipment you will need**

If installing a DC version of the switch, you will need a DC power source, DC supply cable, and wire strippers (see step 9).

If the switch is to be connected to a redundant power supply, you will need a redundant power supply unit and cable (see step 11).

**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 uplink modules (optional)

If you purchased uplink modules, install them now by following the instructions in the *Uplink Module Quick Install Guide*.

### 6. Place the switch in its operating location

If installing the switch in a rack:

- Remove the rubber feet.
- Attach the rack-mounting brackets.
- Mount the switch in the rack.

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

AC versions of AT-8700XL Series switches are fitted with a universal main power supply that will function over the range 100–240 VAC and 50–60 Hz.

DC versions of AT-8700XL Series switches require a supply voltage in the range 39–60V DC.

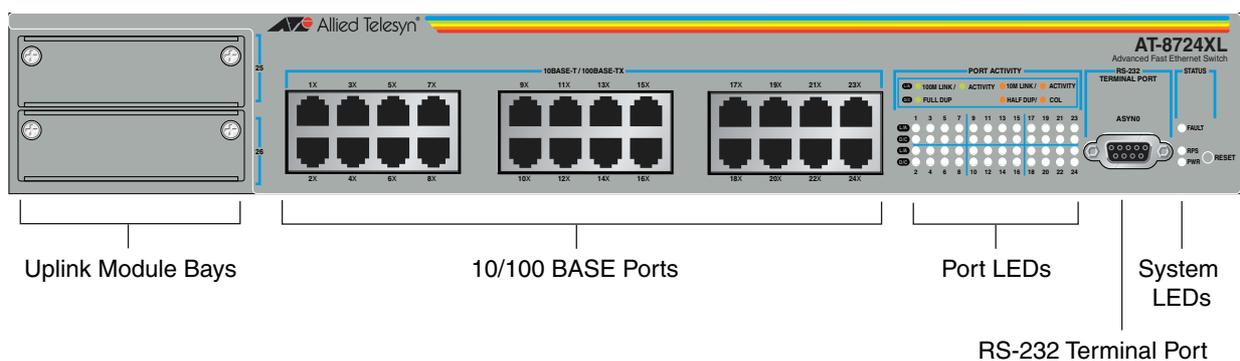
The specific power supply requirements for a particular model are clearly displayed on the rear or underside of the switch. If the supply is outside the accepted range for the switch, the switch may not operate or damage to the switch may result.

### 8. Apply AC power to the switch (for AC models)

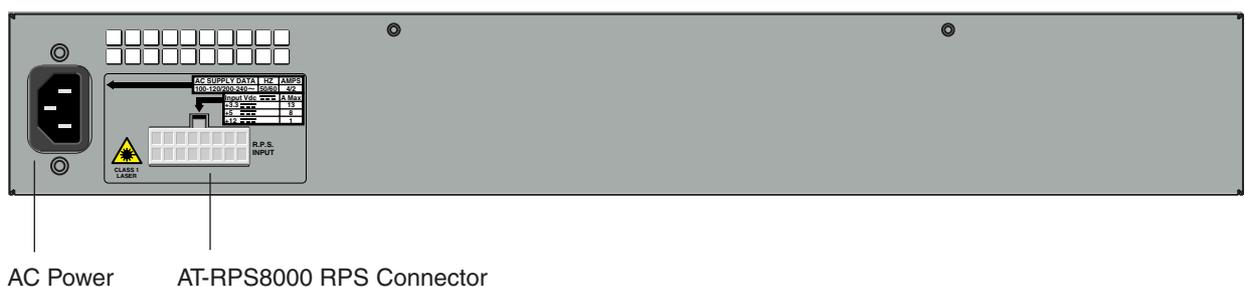
Plug the power cord into the AC power connector on the switch's rear panel. The Fault LED should flash for approximately 10 seconds as the switch runs internal tests. If the LED continues to flash or remains lit, refer to the *AT-8700XL Series Hardware Reference* for troubleshooting information.

Figure 1: AT-8724XL front panel and rear panel with AC power inlet.

#### Front panel



#### Rear panel



### 9. Apply DC power to the switch (for DC models)

Read the *Safety and Statutory Information* booklet before connecting a DC power supply. A copy of this booklet is included with each switch. It is also included on the Documentation and Tools CD-ROM, or can be downloaded from [www.alliedtelesis.com/support/documentation/](http://www.alliedtelesis.com/support/documentation/).



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*Only trained and qualified personnel should connect a DC power supply. Due to exposed terminals, DC powered switches should be installed only in Restricted Access Areas.*

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DC supply cable specifications:

- Number of wires (cores): 3
- Minimum size: 2.1mm<sup>2</sup> (14 AWG)
- Minimum cable rating: 600V, 90 degrees Celsius

DC power supply specifications:

- 48 VDC (39-60 VDC is acceptable)
- Either positive grounded or negative grounded

Circuit protection:

- Use a 10 Amp circuit breaker

To connect the DC supply:

- a) Ensure the supply cable is not live
- b) Strip the supply cable wires to expose 8mm (0.31 in.) of bare conductor
- c) At the switch, connect the ground wire to the ground terminal (terminals can be identified by the diagram on the switch's rear panel, see Figure 2). Tighten the terminal to between 0.6-0.8 Nm (0.041-0.055 pound-force per foot)
- d) At the switch, connect the positive feed to the + (positive) terminal and the negative feed to the - (negative) terminal. Tighten the terminals to between 0.6-0.8 Nm (0.041-0.055 pound-force per foot)
- e) Ensure there are no exposed conductor strands
- f) Secure the supply cable (to the rack framework or similar object) so that the connections are isolated from any force applied to the cable
- g) Ensure the circuit breaker is in the Off position
- h) Connect the supply-cable wires to the circuit breaker
- i) Energise the circuit breaker

Figure 2: DC Power inlet terminals on an AT-8724XL.



DC Power inlet

The Fault LED should flash for approximately 10 seconds as the switch runs internal tests. If the LED continues to flash or remains lit, refer to the *AT-8700XL Series Hardware Reference* for troubleshooting information.

**10. Check that the Power LED on the switch's front panel lights green**

If the LED fails to light, refer to the *AT-8700XL Series Hardware Reference* for troubleshooting information.

**11. Connect the Redundant Power Supply (Optional)**

AC models of AT-8700XL Series switches have a Redundant Power Supply (RPS) connector on their rear panel.

The switch is designed to operate with the AT-RPS8000 RPS, which can be purchased separately. Contact your authorised Allied Telesis distributor or reseller for more information.

**12. 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

**1. 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: Hardware

### 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.



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*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.*

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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-8700XL Series Software Reference* for more information on configuring the switch.

### Using the GUI to configure a router:

This section describes how to establish a connection to the router through the GUI, so you can configure the router before installing it in your LAN. For more information about the GUI, see the Using the Graphical User Interface chapter of the *AT-8700XL Series Software Reference*.

#### 1. Select a PC to browse to the router from

You can browse to the router from any PC that is running a supported operating system with a supported browser installed. JavaScript must be enabled. If you are using a toolbar or plug-in on your browser to block pop-ups, disable it while using the GUI. The GUI displays detailed configuration options and information in pop-up windows.

You need to know the PC's subnet.

## 2. Connect the PC to the router

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



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*You can browse to the router through any VLAN, as long as you give that VLAN an IP address (see below). These instructions assume you will use `vlan1`. The switch ports all belong to `vlan1` by default.*

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## 3. Access the router's command line interface

Access the CLI from the PC, as described in the previous "Using the CLI to configure a router" section.

## 4. Enable IP

```
enable ip
```

## 5. Assign the `vlan1` 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 router 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 `vlan1`'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 router.

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

## System LEDs

System LEDs on its front panel indicate the switch's operational status.

### System LEDs

LED	State	Function
Power	Green	The switch is receiving power and the voltage is within the acceptable range
Fault	Red	The switch or management software is malfunctioning
	1 flash	A switch fan has failed. (The LEDs will not indicate an RPS fan failure.)
	3 flashes	If an RPS is connected, the switch's PSU (Power Supply Unit) has failed
	4 flashes	If RPS monitoring is enabled, the RPS PSU has failed
	5 flashes	If RPS monitoring is enabled, an RPS is not connected or is not operational
RPS <sup>1</sup> (Redundant Power Supply)	Green	An RPS is connected to the switch

1. DC models of the switches do not have an RPS connector and the RPS LED will not function.

The *AT-8700XL Series Hardware Reference* has further troubleshooting information, including information on Switch Port and Uplink Module LEDs.

## Documentation and Tools CD-ROM

The Documentation and Tools CD-ROM bundled with each AT-8700XL 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-8700XL Series Safety and Statutory Information* booklet, which provides safety and statutory information for the AT-8700XL Series switch and its expansion options.
- The *AT-8700XL Series Hardware Reference*, which provides detailed information on the hardware features of AT-8700XL Series switches.
- This Quick Install guide.
- The *AT-8700XL Series Software Reference*, which provides detailed information on configuring the switch and its software.
- The *Uplink Module Quick Install Guide*, which outlines the procedure for installing an Uplink Module; and the *Uplink Module Hardware Reference*, which provides detailed information on Uplink Modules.
- AT-TFTP Server for Windows for downloading software releases.
- Adobe Acrobat Reader for viewing online documentation.