



Ethernet Fast Ethernet Fiber

CentreCOM®

AT-3714F
AT-3726
Switch

INSTALLATION GUIDE

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Electrical Safety and Installation Requirements for AT-3726

STANDARDS: This product meets the following standards.

U.S. Federal Communications Commission

RADIATED ENERGY

Note: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Note: Modifications or changes not expressly approved by the manufacturer or the FCC can void your right to operate this equipment.

Canadian Department of Communications

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

RFI Emission

EN55022 Class A

Immunity

EN50082-1

IMPORTANT: This equipment must be operated in accordance with safety precautions. To see any safety warnings in this guide in multiple languages, refer to Appendix A, Translated Safety Information, at the page number indicated by the  icon.

WICHTIG: Für den Betrieb dieses Gerätes ist die Einhaltung von Sicherheitsvorkehrungen erforderlich. Wenn Sie eine der Sicherheitswarnungen dieser Anleitung in mehrsprachiger Übersetzung lesen möchten, finden Sie diese in Anhang A, "Übersetzte Sicherheitsinformationen", unter der Seitennummer, auf die mit dem Symbol  verwiesen wird. (German)

VIGTIGT: Dette udstyr skal bruges i overensstemmelse med sikkerhedsadvarslerne. Sikkerhedsadvarslerne i denne flersprogede håndbog kan findes i tillæg A oversatte sikkerhedsinformationer på det sidenummer, der er angivet ved  -symbolet. (Danish)

BELANGRIJK: Dit apparaat moet in overeenstemming met de veiligheidsvoorschriften worden gebruikt. Om veiligheidswaarschuwingen in deze handleiding in meerdere talen te zien, refereren aan Aanhangsel A, Vertaalde veiligheidsinformatie, op de door het  symbol aangegeven pagina. (Dutch)

IMPORTANT : Cet équipement doit être utilisé conformément aux instructions de sécurité. Pour consulter les avertissements en diverses langues dans ce guide, reportez-vous à l'annexe A, « Traductions des informations de sécurité », qui figure à la page signalée par l'icône . (French)

TÄRKEÄÄ: Tätä laitetta on käytettävä turvaohjeiden mukaisesti. Tässä ohjeessa olevat turvallisuusvaroituksit löytyvät useammalla kielellä liitteen A "Käännetyt turvaohjeet" sivulta, joka on merkitty  -kuvakkeella. (Finnish)

IMPORTANTE: questa apparecchiatura deve essere utilizzata rispettando le norme di sicurezza. Per le avvertenze di sicurezza in più lingue contenute in questa guida, consultare l'Appendice A, Informazioni sulla sicurezza tradotte alla pagina indicata dall'icona . (Italian)

VIKTIG: Dette utstyret skal brukes i samsvar med sikkerhetsregler. Du kan se all sikkerhetsinformasjonen i denne veilederingen på flere språk ved å slå opp i Tillegg A i heftet "Oversatt sikkerhetsinformasjon" på sidetallet angitt av symbolen . (Norwegian)

Electrical Safety and Installation Requirements for AT-3726

IMPORTANTE: Este equipamento tem que ser operado segundo as medidas de precaução de segurança. Para ver qualquer dos avisos contidos neste guia em vários idiomas, consultar o Anexo A, da Informação de Segurança Traduzido no número de página indicado pelo ícone . (Portuguese)

IMPORTANTE: La operación de este equipo debe llevarse a cabo cumpliendo con las precauciones de seguridad. Para ver cualquier advertencia de seguridad de esta guía en múltiples idiomas, consulte el Apéndice A, Información traducida de seguridad en la página cuyo número indica el ícono . (Spanish)

OBS! Alla nödvändiga försiktighegstätigärder måste vidtas när denna utrustning används. För flerspråkiga säkerhetsvarningar i denna handledning hänvisas du till den sida som följer efter ikonen  i Bilaga A, Översatt säkerhetsinformation. (Swedish)

Electrical Safety and Installation Requirements for AT-3714F

STANDARDS: This product meets the following standards.

Declaration Of Conformity	
Manufacturers Name: Manufacturers Address:	Allied Telesyn International, Corp. 950 Kifer Road Sunnyvale, CA 94086 USA
Manufacturers Telephone: Declares that the product: Model Number:	408-730-0950 Fiber Ethernet Switch AT-3714F
Complies with FCC Part 15B, Class B Limits:	
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device must not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.	
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment, generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:	
- Reorient or relocate the receiving antenna. - Increase the separation between the equipment and the receiver. - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. - Consult the dealer or an experienced radio/TV technician for help.	
Changes and modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commission rules.	

Canadian Department of Communications
This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.
Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

RFI Emission	EN55022 Class B
Immunity	EN50082-1

IMPORTANT: This equipment must be operated in accordance with safety precautions. To see any safety warnings in this guide in multiple languages, refer to Appendix A, Translated Safety Information, at the page number indicated by the  icon.

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BELANGRIJK: Dit apparaat moet in overeenstemming met de veiligheidsvoorschriften worden gebruikt. Om veiligheidswaarschuwingen in deze handleiding in meerdere talen te zien, refereren aan Aanhangsel A, Vertaalde veiligheidsinformatie, op de door het  symbol aangegeven pagina. (Dutch)

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Electrical Safety and Installation Requirements for AT-3714F

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Preface

Purpose of This Guide

This guide is written for installers and network administrators who are responsible for installing and maintaining the switch.

How This Guide is Organized

This guide consists of the following sections:

Chapter 1, Hardware Description, describes the features and functions of the switch.

Chapter 2, Installing the AT-3714F and AT-3726 Switch, describes the procedures for installing the switch.

Chapter 3, Troubleshooting, describes how to troubleshoot the switch.

Chapter 4, Switch Configuration, presents topological illustrations for the switch.

Appendix A, Translated Safety Warnings, contains all of the translated safety warnings documented throughout this guide.

Appendix B, Technical Specifications, presents in tabular form the switch specifications.

At the end of this guide is an Index listing index entries according to subject matter.

Document Conventions

The conventions used in this guide are as follows:

Note

A note provides additional information.



Warning

A warning indicates that performing or omitting a specific action may result in bodily injury.



Caution

A caution indicates that performing or omitting a specific action may result to equipment damage or loss of data.

Where to Find Related AT-3714F, AT-3726 Guides

Allied Telesyn wants our customers to be well informed by providing the most up-to-date and most easily accessible way to find our guides and other technical information by visiting our website at: www.alliedtelesyn.com/manuals.htm.

AT-3726, AT-3714F Documentation	Web-based	Printed
AT-3714F, AT-3726 Installation Guide, 613-10708-00	✓	
AT-3701, AT-3701F/SC Quick Install Guide, 613-10669-00 (shipped with product)		✓
AT-3714F Quick Install Guide, 613-10707-00 (shipped with product)		✓
AT-3714F Translated Safety Information Booklet, 613-10717-00 (shipped with product)		✓
AT-S20 User's Guide, 613-10716-00	✓	
AT-3726 Quick Install Guide, 613-10668-00 (shipped with product)		✓
AT-3726 Translated Safety Information Booklet, 613-10673-00 (shipped with product)		✓

Chapter 1

AT-3714F, AT-3726 Hardware Description

The AT-3714F switch provides 12 Ethernet 10Base-FL ports and one built-in 100Base-FX port. The AT-3726 switch is a standalone, managed Ethernet switch that provides 24 10Base-T ports and one built-in 10/100Base-TX port. Both switches include a 100Base-X slot that can be configured with an optional 10/100Base-TX or 100Base-FX port.

The switches are intended for connections to the desktop as well as workgroup applications and implement direct high-speed server and backbone connections. Full duplex capability on all ports eliminates collisions and provides up to 20 Mbps on the 10Base ports and up to 200 Mbps of bandwidth on the 100Base ports to servers, routers, and other switches. With built-in management, this switch provides seamless management capability such as SNMP.

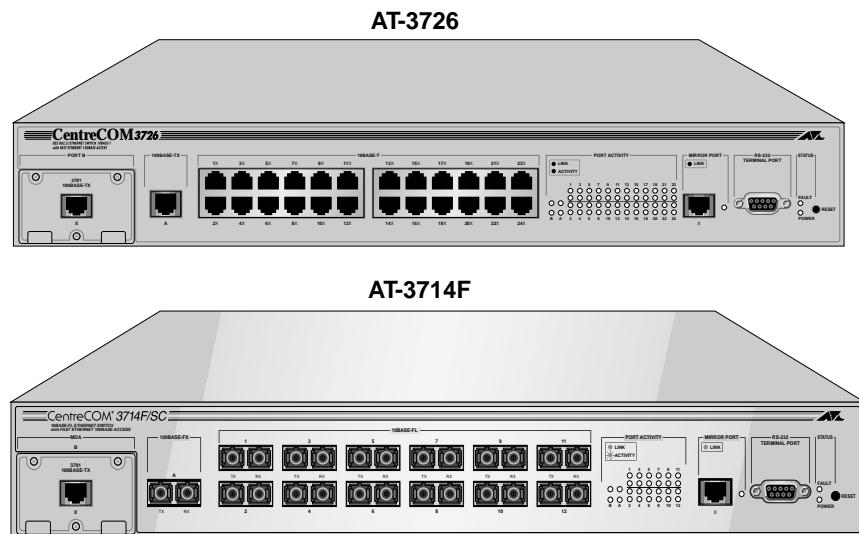


Figure 1-1 AT-3726 and AT-3714F Switches

Physical Description

The switches have the following major front panel components:

- 24 Ethernet 10Base-T RJ45 ports with one 10/100Base-TX port (Fast ethernet) (AT-3726); 12 10Base-FL ports (SC or ST) with one 100Base-FX (fiber SC) port (AT-3714F)
- Optional Media Dependent Adapter (MDA)--100Base-X port can be configured either with 10/100Base-TX (RJ45) or 100Base-FX port (fiber SC)
- Port Mirroring (Port M) 10Base-T RJ45
- RS232 (DB9) connector (out-of-band/Local Omega)
- Reset button
- System and port status LEDs

Hardware Features

The switches have the following major hardware features:

- Full duplex capability on all ports eliminates collisions and provides up to 20 Mbps on the 10Base ports and up to 200 Mbps of bandwidth on the 100Base ports to servers, routers, and other switches
- Auto-negotiation on all 10BaseT and 10/100BaseTX ports in compliance with IEEE 802.3u
- Port mirroring
- Non-blocking, clear-channel architecture delivers wire-speed switching and up to 880 Mbps aggregate bandwidth for exceptional performance (AT-3726); 640Mbps for AT-3714F
- Shared memory architecture with 1M of packet buffers per ASIC chip (two ASICs for AT-3726; one ASIC for AT-3714F)
- Store-and-forward and Cut-through (fragment-free) switching modes
- Stores up to 1954 MAC addresses

- In-band Telnet capability for switch management
- Out-of-band capability with RS232 connector for switch management
- Flash memory for convenient upgrades

Network Management Features

The following lists the switch's major network management features.

- SNMP Management Information Base (MIB) II, SNMP MIB extensions, Bridging MIB (RFC 1493), and Telnet support deliver comprehensive in-band management
- Local Omega, a menu-based management console, provides detailed out-of-band management
- IEEE 802.1d Spanning Tree Protocol support for redundant backbone connections and loop-free networks simplifies configuration and improves fault tolerance

MAC Addressing

The switch has hardware base support with External Address Lookup Engine (EALE) for static entries and self-learning of active MAC addresses. The switch can support up to 1954 MAC addresses.

Store and Forward/ Cut-Through (fragment-free) Modes

With store and forward or cut-through (fragment-free) switching modes, network administrators can optimize performance and enable full-error checking.

The store and forward mode (default), works in the following way. First, as the packet is being received, it is placed in a buffer and held there until the entire packet is received. The packet is also being checked for errors and is not forwarded unless the entire packet is error-free. This mode is automatic when data is exchanged between 10Base and 100Base ports.

With the Cut-through (fragment-free) method, the switch starts to forward the incoming packet to its destination while the packet is still being received. Cut-through (fragment-free) provides low latency for forwarding frames and also filtering fragment frames by not transmitting a frame until 64 bytes have been received by the switch. In Cut-through (fragment-free) mode, fragment frames or runts and short frames (frames less than 64 bytes) are filtered, thus preventing error frames from propagating throughout the network causing congestion.

Select the Cut-through (fragment-free) method if you are running time-sensitive applications because it provides lower latency through the switch.

Transmit Pacing

Transmit pacing is enabled on a per port basis. When transmit pacing is enabled, the switch alters its transmission routine during heavy network activity. When the switch senses heavy traffic, it alters its transmission routing by intentionally inserting additional delay between transmission attempts. This added delay reduces collision rates, thus reducing the number of transmission attempts, which helps reduce CPU utilization, lightens overall network traffic, and allows the network time to normalize before attempting transmission.

If this additional delay is not applied, the switch attempts to transmit on an overloaded network, increasing the number of unsuccessful transmission attempts.

For detailed information concerning software and management features, see the “**AT-S20 User’s Guide**” located on Allied Telesyn’s website at alliedtelesyn.com/manuals.htm.

Mirror Port

The switch has a dedicated Mirror port. Administrators can use the Omega software to configure the Mirror port and modes. The Mirror port can monitor traffic on any 10Mbps port, but only one port at a time. An extended LANalyzer or an RMON probe can be connected to the port mirroring connector using a standard Category 3 UTP cable.

In full duplex mode the user needs to determine if they want to monitor TX or only RX data, but in only one direction at a time. In half duplex mode, both RX/TX can be monitored simultaneously.

10/100BaseTX/ FX Media Dependent Adapter

The MDA's LEDs, one for Activity and the other for Link status, are located on the switch's front panel under Port Activity. Table 1-1 lists the features of the MDAs. For details concerning how to install an MDA, see Chapter 2, Installing a Media Dependent Adapter.

Table 1-1 Media Dependent Adapter Features

Adapter	Supported Cable	Description
AT-3701	UTP	10/100Base-TX RJ45 Ethernet port: auto-negotiated speed and duplex mode 10/100Base-T max. segment length: 330' (100m), Category 5 UTP
AT-3701F/SC	Fiber SC	100Base-FX: multimode SC fiber connector 100Base Ethernet port 100Base-FX: max. segment length 1.25 miles (2 km for full duplex, 412 M for half duplex); 50/125 and 62.5/125 micron multimode fiber

RS232 Connector

The RS232 connector provides out-of-band management via a VT-100 terminal or MS-Windows' VTERM terminal emulation using a straight-through cable.

Reset Button

This recessed button can be activated using the tip of a ball point pen to run power-on self test.

AC Power Connector

The switch has a single power supply, which has autoswitch AC inputs. The input voltage range is from 120-240 VAC, 50/60 Hz.

Chapter 2

Installing the Switch

The AT-3714F, AT-3726 switch is 1.5 Rack Unit (RU) high and can be positioned on a desktop as a standalone unit or rack-mounted in a standard 19-inch rack.

Verifying Switch Package Contents

Make sure the following hardware components are included in your switch package. If any of the following items are missing or damaged, contact your sales representative.

- AT-3714F or AT-3726 Switch
- AT-3714F or AT-3726 Switch Quick Install Guide
- Translated Safety Information Booklet
- Warranty card
- 2 mounting brackets
- 6 flathead Phillips screws
- Power cord (Americas only)

Safety Information



Warning

ELECTRIC SHOCK HAZARD

To prevent ELECTRIC shock, do not remove cover. No user-serviceable parts inside. This unit contains HAZARDOUS VOLTAGES and should only be opened by a trained and qualified technician. To avoid the possibility of ELECTRIC SHOCK, disconnect electric power to the product before connecting or disconnecting the LAN cables. [◀→ A-4](#)



Laser

This is a “CLASS 1 LED PRODUCT.” [◀→ A-3](#)

LIGHTNING DANGER

DO NOT WORK on equipment or CABLES during periods of LIGHTNING ACTIVITY. [◀→ A-12](#)



Caution

POWER CORD IS USED AS A DISCONNECTION DEVICE. TO DE-ENERGISE EQUIPMENT disconnect the power cord. [◀→ A-10](#)

ELECTRICAL—AUTO VOLTAGE ADJUSTMENT

This product will automatically adjust to any voltage between the ranges shown on the label. [◀→ A-15](#)

ELECTRICAL—TYPE CLASS 1 EQUIPMENT

THIS EQUIPMENT MUST BE EARTHED. Power plug must be connected to a properly wired earth ground socket outlet. An improperly wired socket outlet could place hazardous voltages on accessible metal parts. [◀→ A-6](#)

ELECTRICAL—CORD NOTICE

Use power cord, maximum 4.5 meters long, rated 6 amp minimum, 250V, made of HAR cordage molded IEC 320 connector on one end and on the other end a plug approved by the country of end use.

[◀→ A-8](#)



Caution

Air vents must **not be blocked** and must have free access to the room ambient air for cooling. [◀→ A-11](#)



Caution

OPERATING TEMPERATURE

This product is designed for a maximum ambient temperature of **40° C.** [◀→ A-13](#)



Caution

ALL COUNTRIES: Install product in accordance with local and National Electrical Codes. [◀→ A-14](#)

Preparing the Site

Make sure that you follow common sense installation site requirements and observe the following:

- ❑ Make sure that the switch's power is accessible and cables can be connected easily.
- ❑ Cabling should be away from sources of electrical noise such as radios, transmitters, broadband amplifiers, power lines, and fluorescent fixtures.
- ❑ Air flow around the switch and through its vents in the side and rear cannot be restricted.
- ❑ If you are desk mounting the switch, make sure the switch is placed on a level, secure desktop.
- ❑ Do not place objects on top of the switch.
- ❑ Do not expose the switch to moisture or water.
- ❑ Make sure it is in a dust-free environment.
- ❑ Use dedicated power circuits or power conditioners to supply power to the network devices.

Rack Mounting the Unit



Caution

Do not use power tools to perform this installation.



To rack mount the unit

1. Remove the snap-on plastic feet, as shown in Figure 2-1.

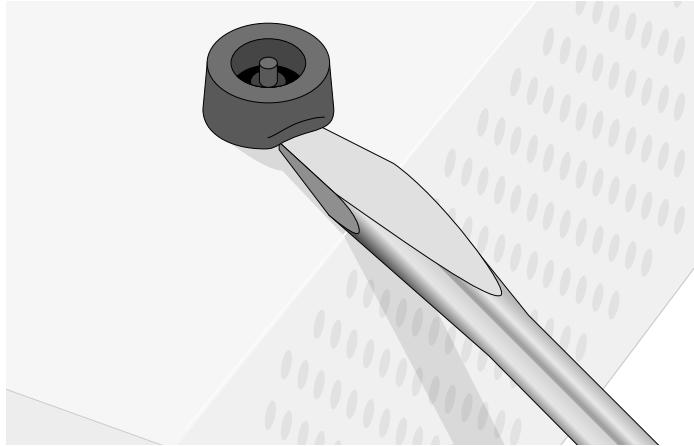


Figure 2-1 Removing the Feet

2. Remove all cables and power cord from the switch (if previously attached).



Caution

Air vents must not be blocked and must have free access to the room ambient air for cooling A-11.

3. Attach the rack-mounting brackets to each side of the switch, using the 6 flathead screws provided.

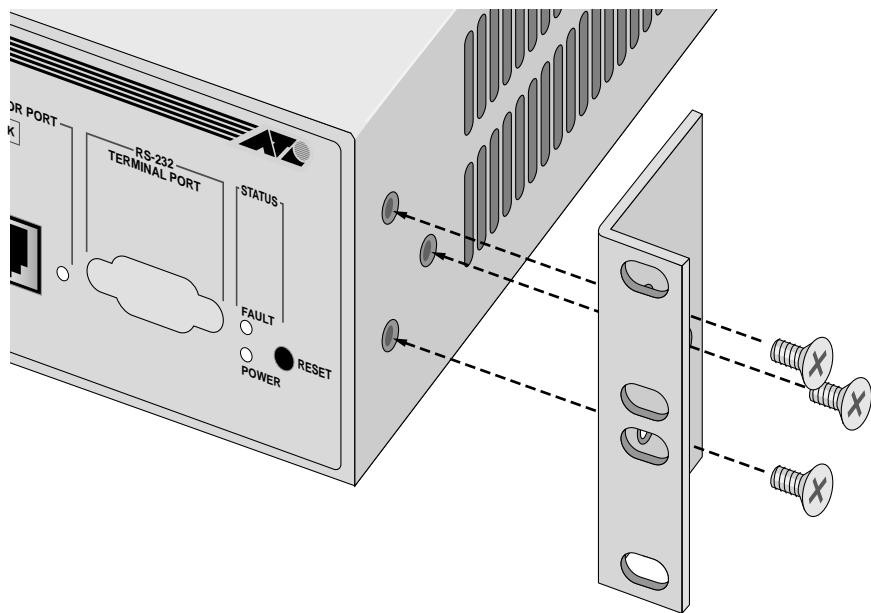


Figure 2-2 Attaching Rack-Mounting Brackets

4. Mount the unit in the rack.
5. Apply power to the unit as follows:



Caution

Power cord is used as a disconnection device. To de-energise equipment disconnect the power cord. 

Attach the power cord to the unit and plug it in the wall outlet.
Verify that the PWR LED lights green. See Table 2-1, LEDs

Installing the Switch

As power is applied to the switch, the switch runs its own internal testing.

Table 2-1 LEDs

LED	Color	State	Description
POWER (system)	Green	ON	The switch is receiving power, voltage is within the acceptable range, and the power supply is working.
FAULT (system)	Red	ON	The switch or management software is malfunctioning.
		Flashing	Running diagnostics.
LINK (Ethernet)	Green	ON	There is a physical link with a device.
Activity	Green	Flashing	The Ethernet port is receiving/transmitting packets.

If the POWER LED does not light green, see Chapter 3, "Troubleshooting" for further information.

Setting Up Terminal for Local Management Using Omega

1. For local management, connect your terminal to the RS232 connector on the switch's front panel. Use an RS232 DB9 straight-through cable.

Note

The RS232 is for Setup and Diagnostics only. The cable must be disconnected during normal operation to maintain Emissions Compliance.

2. Access your terminal emulator program. Press **Return** several times to ensure baud configuration (autobaud).
3. Set your terminal to the following
 - 8, data bits
 - 1, stop bits
 - None, parity

See also Table 2-2, Switch Default Settings.

You are now ready to access the switch's management software, Omega.

For remote management and further details concerning the Omega management software, refer to the "**AT-S20 User's Guide**" located at www.alliedtelesyn.com/manuals.htm.

Switch Default Settings

Table 2-2 Switch Default Settings

Settings	Default
IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Gateway Address	0.0.0.0
Get community string	Public
Set community string	Private
Trap community string	Public
Port mirroring state	Disabled
Spanning Tree Protocol	Enabled
Telnet Access	Enabled
System Name	None
Password (Omega)	No password assigned
Download Password	ATS20
Port Priority	128
Port Path Cost	100
Auto-negotiate/Half Duplex/Full Duplex	Auto-negotiate (AT-3726) Half Duplex (AT-3714F)
Spanning Tree Priority	32768
Active Aging Time	300 seconds
Hello Time	2 seconds
Transmit Pacing	Disabled
Bridge Identifier (STP)	32768 (bridge priority)
Port Priority (STP)	128
Port Cost (STP)	100 for 10 Mbps ports 10 for 100 Mbps ports
Store and Forward or, Cut-Through Fragment-Free	Store-and-Forward
Domain Name	None
Timeout	5 min.

Media Dependent Adapters

Two types of Media Dependent Adapters (MDAs) can be installed in the AT-3714F, AT-3726 switch: either the AT-3701 (RJ45) or the AT-3701F/SC.

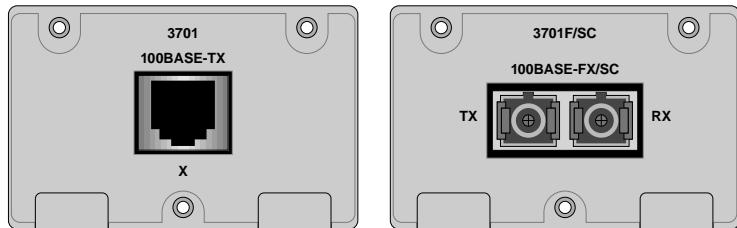


Figure 2-3 AT-3701 and AT-3701F/SC MDA Front Panel

Verifying Package Contents

Make sure that you have received the following items:

- Media Dependent Adapter (MDA)
- Three Phillips panhead screws
- AT-3701, AT-3701 F/SC Media Dependent Adapter Quick Install Guide
- Warranty card

Media Dependent Adapter Features

Table 2-3 lists the MDA features.

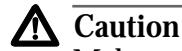
Table 2-3 Media Dependent Adapter Features

Adapter	Supported Cable	Description
AT-3701	UTP	10/100Base RJ45 port Ethernet port: auto-negotiated speed and duplex mode 10/100Base-T max. segment length: 330' (100m), Category 5 UTP
AT-3701F/SC	Fiber SC	100Base: multimode SC fiber connector 100Base Ethernet port 100Base-FX: max. segment length 1.25 miles (2 km for full duplex, 412 M for half duplex); 50/125 and 62.5/125 micron multimode fiber

Installing a Media Dependent Adapter

To install an MDA, do the following:

1. Disconnect the switch's power cord.
2. Unscrew the three Phillips head screws on the blank faceplate and save the faceplate and screws for future use.



Caution

Make sure the MDA blank panel is attached to the unit if the MDA slot is vacant.

3. The standoff on the MDA serves as a guide to slide the MDA correctly into its slot so that the MDA's 50-pin female connector attaches securely to the 50-pin male connector on the main board. See Figure 2-4 and Figure 2-5 when performing the next step.
4. Slide the MDA into its empty slot making sure that the standoff is aligned properly prior to connecting the 50-pin connector.
5. Attach the female 50-pin female connector to its counterpart.

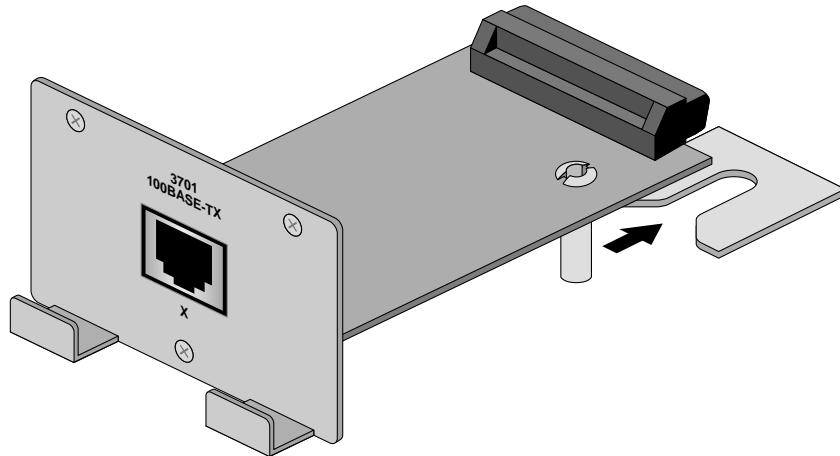


Figure 2-4 Guiding the MDA (AT-3701) Standoff into Its Slot

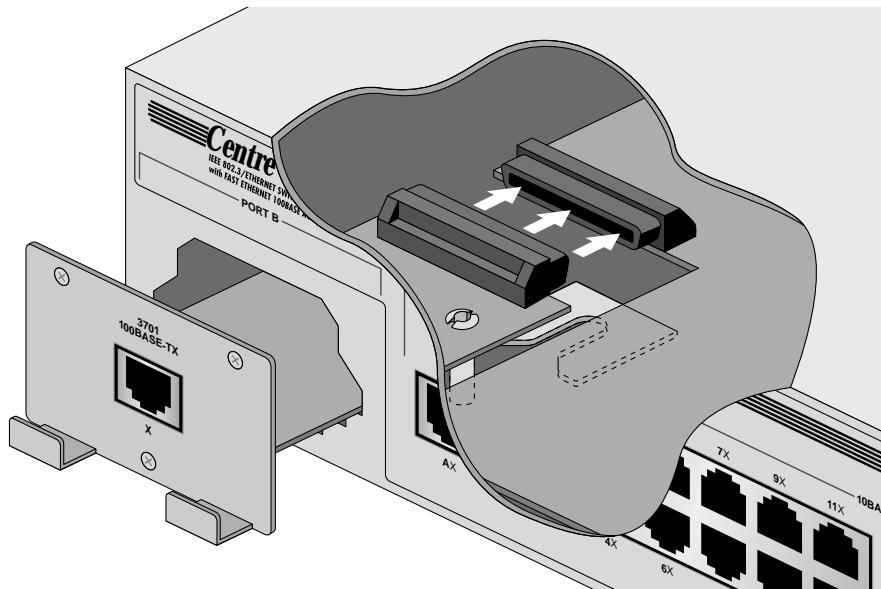


Figure 2-5 Connecting the 50-Pin Female Connector

6. Attach the three Phillips panhead screws that were shipped with the MDA.
7. Apply power to the unit as follows:



Caution

Power cord is used as a disconnection device. To de-energise equipment disconnect the power cord. 

Re-attach the power cord to the unit and plug it in the wall outlet. Verify that the PWR LED lights green. See Table 2-4.

MDA LEDs

Table 2-4 lists and defines the MDA LEDs. Note that the MDA LEDs are located on the front panel of the switch under Port Activity.

Table 2-4 Media Dependent Adapter LEDs

LED	Color	State	Description
LINK	Green	ON	There is a good physical link with a device.
ACTIVITY	Green	Flashing or ON	The Ethernet port is receiving/transmitting packets.

For troubleshooting techniques, see Chapter 3, "Troubleshooting."

Chapter 3

Troubleshooting

At the First Sign of a Problem

Perform the following tasks when you first become aware of a problem with the switch:

- Make sure the power cord is securely connected and the power voltage is not fluctuating.
- Check the data cables for secure connections and make sure the device at the other end of a connection is operational.
- Press the RESET button so the switch can run self- diagnostics.

Use Omega to run diagnostics and read statistics. Refer to Chapter 5, “**Diagnostics**,” and Chapter 3, “**Statistics: Received and Transmitted Ethernet Frames**,” in the “**AT-S20 User’s Guide**” for further details concerning Omega.

- If the management software has failed, and the switch continues to forward packets, when convenient power on/off or reboot the switch.
- If problems still persist, for example, the Fault LED remains on, call Allied Telesyn’s Technical Support or visit Allied Telesyn’s website at www.alliedtelesyn.com.

Network Cabling Problems

If you have 100Base-TX (Fast-Ethernet), some network problems may be related to exceeding cabling distances. Refer to the standard IEEE 802.3u, Clause 29.3.1.2 on "Worst Case Path Delay Value." This document specifies that the collision domain diameter must be within the following limits:

- Under 100 m (330 feet) for TX cabling
- Under 412 m (1331.56 feet) for half duplex FX cabling

Calling Technical Support

Provide Technical Support with the following information:

- Switch model and serial number
- Software version number
- Description of the problem

See Allied Telesyn's website at www.alliedtelesyn.com for a list of worldwide Allied Telesyn locations.

How the Switch Reports Problems

The switch detects and processes errors as follows:

- ❑ The LEDs indicate problems with the port and power. Table 3-1 describes the switch LEDs.
- ❑ In a TCP/IP environment, if you have configured the software correctly, the management software triggers an SNMP trap message. As a result, the software then sends traps to alert the network manager when a trigger occurs. This type of software configuring allows the network administrator/manager to pro-actively monitor their network.

Table 3-1 lists and describes the switch LEDs.

Table 3-1 LEDs

Name	Color	State	Description
Fault	Red	ON	Indicates that the management software is malfunctioning, a problem exists with the serial interface, diagnostics is running, or a hardware problem.
		OFF	Indicates no problem.
Power	Green	ON	Indicates that power is being applied to the switch
		OFF	Indicates the voltage has dropped below acceptable levels or the power cord is loose.
Link OK (Ethernet)	Green	ON	Indicates that there is a good physical link with a device.
		OFF	Indicates the physical link is broken.
Activity (TX/RX)	Green	Flashing	Indicates the Ethernet port is receiving/transmitting packets.

PORT ACTIVITY LED on any Port is Off

This may indicate:

- Data cable is loose.
- The device at the other end of the connection has been turned off.
- The port is disabled through the software.

Perform the following steps in sequence; you need not proceed to the next step if the problem is resolved:

1. Make sure the data cables are secure.
2. Make sure the device at the end of the connection is turned on.
3. Call Allied Telesyn's Technical Support.

PORT ACTIVITY LED on any Port is OFF

OFF may indicate that someone has manually disabled the port through the software.

Perform the following steps in sequence; you need not proceed to the next step if the problem is resolved:

1. Log on to Omega if you can and check the port status (*Port status and configuration><port number>*).
2. Refer to the “**AT-S20 User’s Guide**” to check that the port is Disabled, or that someone has manually disabled the port through the software for a specific reason. Verify that the reason no longer exists before you enable this port (*Port status and configuration*).
3. Call Allied Telesyn's Technical Support.

POWER LED is Off

If there is no power to the switch, it cannot function.

A POWER LED that is off may indicate:

- The voltage has dropped below acceptable levels.
- The power supply has failed, is malfunctioning, or loss of power to the power supply.
- The power cord is loose.
- A rise in switch temperature because of fan failure.

Perform the following steps in sequence; you need not proceed to the next step if the problem is resolved:

1. Secure the power cord to the power source and check the **POWER** LED to see if it is **on**.
2. Ensure that the voltage is within the required levels in your region.
3. Log on to Omega and run **Diagnostics** if you can (System administration>Diagnostics) and record any failures.
4. Call Allied Telesyn's Technical Support and report the results of the tests.

**FAULT LED
is On**

This might indicate problems with the network management software, such as:

- Unsuccessful software downloads
- Loose RS232 interface connection

Perform the following steps in sequence; you need not proceed to the next step if the problem is resolved:

1. Reset the switch either by:
 - Pressing the **RESET** button on the front panel, or
 - Selecting **System Administration>Reset** and restart the system from Omega, if you can.
2. Make sure the RS232 connection from the local terminal or PC to the switch is secure; change the cable if necessary.

If you cannot access Omega Local because of a faulty RS232 connection, use Omega Remote via Telnet or manage the switch using SNMP until the problem is fixed.

3. Unplug the switch from the power source, then plug it back in again.
4. Try to log on to Omega and run diagnostics (System administration>Diagnostics).
5. Call Allied Telesyn's Technical Support.

Chapter 4

Switch Configurations

Standalone Switch Configuration

Figure 4-1 and Figure 4-2 show the AT-3726 and AT-3714F Switch respectively, used as a standalone switch for a group of heavy traffic users in a large corporate network. Switching is brought to the desktop with a single end-station per switch port. A local server is connected to the 100Mbps Fast Ethernet port.

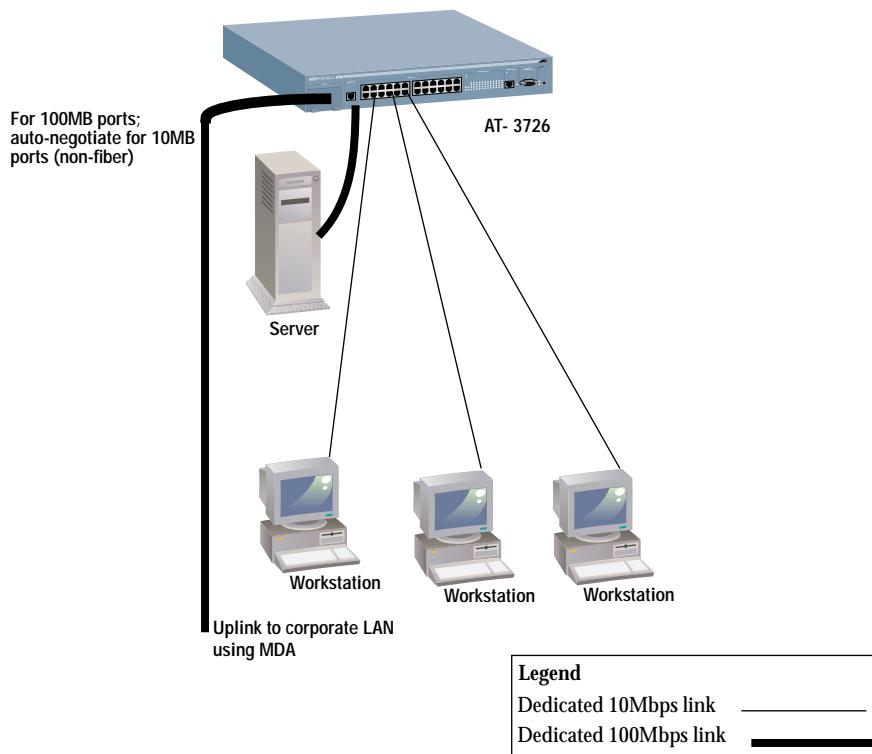


Figure 4-1 AT- 3726 Switch in Desktop Configuration

Switch Configurations

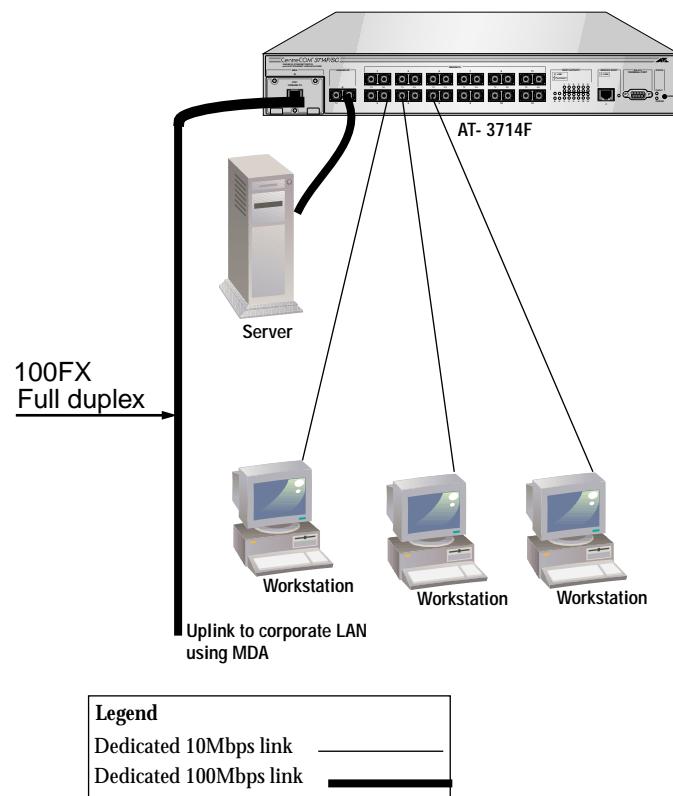


Figure 4-2 AT- 3714F Switch in Desktop Configuration

Workgroup Switch Configuration

Figure 4-3 and Figure 4-4 show how cascaded AT-3726s and AT-3714Fs respectively, fit into a large corporate network with a Fast Ethernet infrastructure. A switch is located on each floor and servers are centralized in one room.

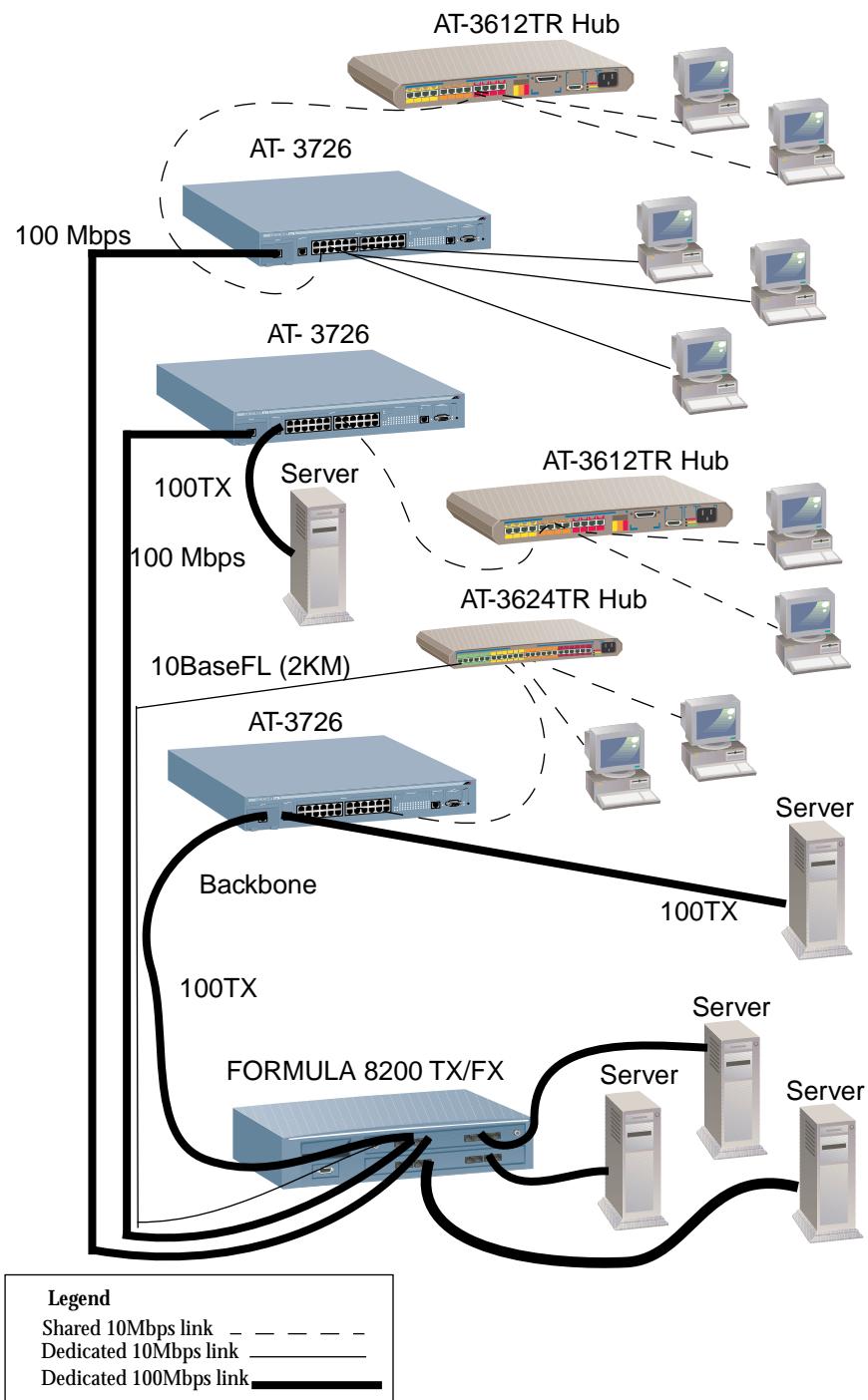
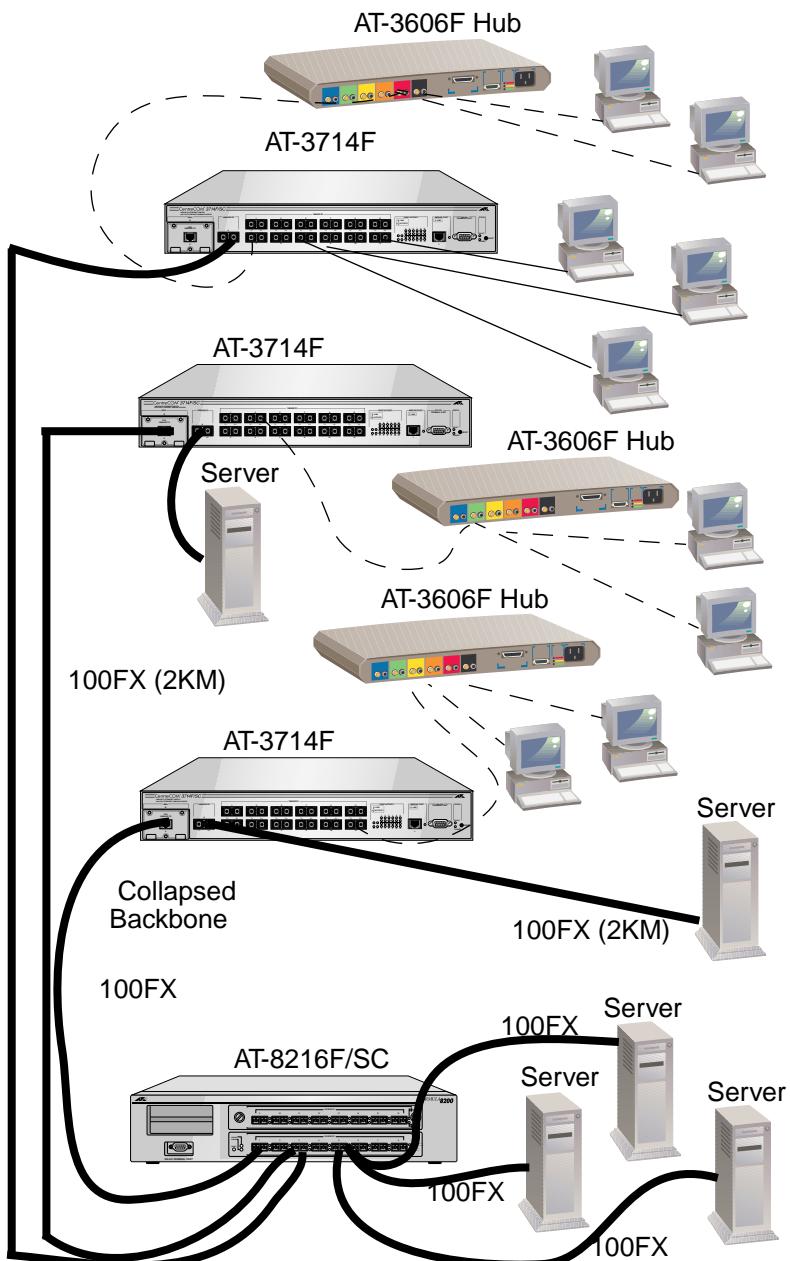


Figure 4-3 AT-3726 Switch in Department Configuration



Legend	
Shared 10Mbps link	- - - - -
Dedicated 10Mbps link	_____
Dedicated 100Mbps link	_____

Figure 4-4 AT-3714F Switch in Department Configuration

Appendix A

Translated Safety Information

IMPORTANT: This appendix contains multiple-language translations for each safety warning in this guide.

WICHTIG: Dieser Anhang enthält mehrsprachige Übersetzungen für alle Sicherheitswarnungen dieser Anleitung. (German)

VIGTIGT: Denne brochure indeholder oversættelser i flere sprog for alle sikkerhedsadvarslerne i denne vejledning. (Danish)

BELANGRIJK: Dit aanhangsel bevat vertalingen in meerdere talen voor elke veiligheidswaarschuwing in deze gids. (Dutch)

IMPORTANT: Cette annexe contient les traductions en diverses langues de tous les avertissements de sécurité mentionnés dans ce Guide. (French)

TÄRKEÄÄ: Tämä liite sisältää kaikki tässä oppaassa olevat turvallisuusvaroituksit usealla kielellä. (Finnish)

IMPORTANTE: questa appendice contiene la traduzione in più lingue di tutte le avvertenze di sicurezza contenute in questa guida. (Italian)

VIKTIG: Dette heftet inneholder oversettelser til flere språk av hver sikkerhetsadvarsel i denne veiledningen. (Norwegian)

IMPORTANTE: Este anexo contém traduções em vários idiomas para cada aviso de segurança neste guia. (Portuguese)

IMPORTANTE: Este apéndice contiene traducciones a múltiples idiomas para cada advertencia de seguridad en esta guía. (Spanish)

OBS! Denna bilaga innehåller flerspråkiga översättningar av varje säkerhetsvarning i denna handledning. (Swedish)

WARNING: In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

WARNUNG: Bei Verwendung zu Hause kann dieses Produkt Funkstörungen ervorrufen. In diesem Fall müßte der Anwender angemessene Gegenmaßnahmen ergreifen.

ADVARSEL: I et hjemligt miljø kunne dette produktet forårsage radioforstyrrelse. Bliver det tilfældet, påkræves brugeren muligvis at tage tilstrækkelige foranstaltninger.

WAARSCHUWING: Binnenshuis kan dit product radiostoring veroorzaken, in welk geval de gebruiker verplicht kan worden om gepaste maatregelen te nemen.

MISE EN GARDE : dans un environnement domestique, ce produit peut provoquer des interférences radioélectriques. Auquel cas, l'utilisateur devra prendre les mesures adéquates.

VAROITUS: Kotiolosuhteissa tämä laite voi aiheuttaa radioaaltojen häiröitä, missä tapauksessa laitteen käyttäjän on mahdollisesti ryhdyttää tarpeellisiin toimenpiteisiin.

AVVERTENZA: in ambiente domestico questo prodotto potrebbe causare radio interferenza. In questo caso potrebbe richiedersi all'utente di prendere gli adeguati provvedimenti.

ADVARSEL: Hvis dette produktet benyttes til privat bruk, kan produktet forårsake radioforstyrrelse. Hvis dette skjer, må brukeren ta de nødvendige forholdsregler.

AVISO: Num ambiente doméstico este produto pode causar interferência na radiorrecepcão e, neste caso, pode ser necessário que o utente tome as medidas adequadas.

ADVERTENCIA: en un entorno doméstico, este producto puede causar radiointerferencias, en cuyo caso, puede requerirse del usuario que tome las medidas que sean convenientes al respecto.

VARNING: Denna produkt kan ge upphov till radiostörningar i hemmet, vilket kan tvinga användaren till att vidtaga erforderliga åtgärder.

This is a "CLASS 1 LED PRODUCT"

Das ist ein "LED Produkt der Klasse 1"

Dette er et "PRODUKT UNDER KLASSE 1 LED"

Dit is een "KLASSE 1 LED-PRODUKT"

Ce matériel est un "PRODUIT À DIODE ÉLECTROLUMINESCENTE DE CLASSE 1"

Tämä on "ENSIMMÄISEN LUOKAN VALODIODITUOTE"

Questo è un "PRODOTTO CON LED DI CLASSE 1"

Dette er et "KLASSE 1 LED PRODUKT"

Este é um "PRODUTO CLASSE 1 LED"

Este es un "PRODUCTO DE DIODO LUMINISCENTE (LED) CLASE 1"

Detta är en "KLASS 1 LYSDIODPRODUKT"

WARNING: To prevent electric shock, do not remove cover. No user-serviceable parts inside. This unit contains hazardous voltages and should only be opened by a trained and qualified technician. To avoid the possibility of electric shock, disconnect electric power to the product before connecting or disconnecting the LAN cables.

ACHTUNG: GEFAHRLICHE SPANNUNG

Das Gehäuse nicht öffnen. Das Gerät enthält keine vom Benutzer wartbaren Teile. Das Gerät steht unter Hochspannung und darf nur von qualifiziertem technischem Personal geöffnet werden. Vor Anschluß der LAN-Kabel, Gerät vom Netz trennen.

ELEKTRISKE FORHOLDSREGLER

ADVARSEL: RISIKO FOR ELEKTRISK STØD

For at forebygge ELEKTRISK stød, undlad at åbne apparatet. Der er ingen indre dele, der kan repareres af brugeren. Denne enhed indeholder LIVSFARLIGE STRØMSPÆNDINGER og bør kun åbnes af en uddannet og kvalificeret tekniker. For at undgå risiko for ELEKTRISK STØD,afbrydes den elektriske strøm til produktet, før LAN-kablerne monteres eller afmonteres.

WAARSCHUWINGEN MET BETrekking tot ELEktriciteit

WAARSCHUWING: GEVAAR VOOR ELEkTRISCHE SCHOKKEN

Verwijder het deksel niet, teneinde ELEkTRISCHE schokken te voorkomen. Binnenin bevinden zich geen onderdelen die door de gebruiker onderhouden kunnen worden. Dit toestel staat onder GEVAARLIJKE SPANNING en mag alleen worden geopend door een daartoe opgeleide en bevoegde technicus. Om het gevaar op ELEkTRISCHE SCHOKKEN te vermijden, moet u het toestel van de stroombron ontkoppelen alvorens de LAN-kabels te koppelen of ontkoppelen.

INFORMATION SUR LES RISQUES ÉLECTRIQUES

AVERTISSEMENT : DANGER D'ÉLECTROCUTION

Pour éviter toute ÉLECTROCUTION, ne pas ôter le revêtement protecteur du matériel. Ce matériel ne contient aucun élément réparable par l'utilisateur. Il comprend des TENSIONS DANGEREUSES et ne doit être ouvert que par un technicien dûment qualifié. Pour éviter tout risque d'ÉLECTROCUTION, débrancher le matériel avant de connecter ou de déconnecter les câbles LAN.

SÄHKÖÖN LIITTYVIÄ HUOMAUTUKSIA

VAROITUS: SÄHKÖISKUVAARA

Estääksesi SÄHKÖISKUN älä poista kantta. Sisällä ei ole käyttäjän huollettavissa olevia osia. Tämä laite sisältää VAARALLISIA JÄNNITTEITÄ ja sen voi avata vain koulutettu ja pätevä teknikko. Välttääksesi SÄHKÖISKUN mahdollisuuden katkaise sähkövirta tuotteeseen ennen kuin liität tai irrotat paikallisverkon (LAN) kaapelit.

*(Continued...)***AVVERTENZE ELETTRICHE****ATTENZIONE: PERICOLO DI SCOSSE ELETTRICHE**

Per evitare SCOSSE ELETTRICHE non asportare il coperchio. Le componenti interne non sono riparabili dall'utente. Questa unità ha TENSIONI PERICOLOSE e va aperta solamente da un tecnico specializzato e qualificato. Per evitare ogni possibilità di SCOSSE ELETTRICHE, interrompere l'alimentazione del dispositivo prima di collegare o staccare i cavi LAN.

ELEKTRISITET**ADVARSEL: FARE FOR ELEKTRISK SJOKK**

For å unngå ELEKTRISK sjokk, må dekslet ikke tas av. Det finnes ingen deler som brukeren kan reparere på innsiden. Denne enheten inneholder FARLIGE SPENNINGER, og må kun åpnes av en faglig kvalifisert tekniker. For å unngå ELEKTRISK SJOKK må den elektriske strømmen til produktet være avslått før LAN-kablene til- eller frakobles.

AVISOS SOBRE CARACTERÍSTICAS ELÉTRICAS**ATENÇÃO: PERIGO DE CHOQUE ELÉTRICO**

Para evitar CHOQUE ELÉTRICO, não retire a tampa. Não contém peças que possam ser consertadas pelo usuário. Este aparelho contém VOLTAGENS PERIGOSAS e só deve ser aberto por um técnico qualificado e treinado. Para evitar a possibilidade de CHOQUE ELÉTRICO, desconecte o aparelho da fonte de energia elétrica antes de conectar e desconectar os cabos da LAN.

AVISOS ELECTRICOS**ADVERTENCIA: PELIGRO DE ELECTROCHOQUE**

Para evitar un ELECTROCHOQUE, no quite la tapa. No hay ningún componente en el interior al cual puede prestar servicio el usuario. Esta unidad contiene VOLTAJES PELIGROSOS y sólo deberá abrirla un técnico entrenado y calificado. Para evitar la posibilidad de ELECTROCHOQUE desconecte la corriente eléctrica que llega al producto antes de conectar o desconectar los cables LAN.

TILLKÄNNAGIVANDEN BETRÄFFANDE ELEKTRICITETSRIKS:

RISK FÖR ELEKTRISK STÖT För att undvika ELEKTRISK stöt, ta ej av locket. Det finns inga delar inuti som behöver underhållas. Denna apparat är under HÖGSPÄNNING och får endast öppnas av en utbildad kvalificerad tekniker. För att undvika ELEKTRISK STÖT, koppla ifrån produktens strömanslutning innan LAN-kablarna ansluts eller kopplas ur.

ELECTRICAL-TYPE CLASS 1 EQUIPMENT

This equipment must be earthed. Power plug must be connected to a properly wired earth ground socket outlet. An improperly wired socket outlet could place hazardous voltages on accessible metal parts.

GERÄTE DER KLASSE 1

DIESE GERÄTE MÜSSEN GEERDET SEIN. Der Netzstecker darf nur mit einer vorschriftsmäßig geerdeten Steckdose verbunden werden. Ein unvorschriftsmäßiger Anschluß kann die Metallteile des Gehäuses unter gefährliche elektrische Spannungen setzen.

ELEKTRISK—KLASSE 1-UDSTYR

DETTE UDSTYR KRÆVER JORDFORBINDELSE. Stikket skal være forbundet med en korrekt installeret jordforbundet stikkontakt. En ukorrekt installeret stikkontakt kan sætte livsfarlig spænding til tilgængelige metaldele.

ELEKTRISCHE TOESTELLEN VAN KLASSE 1

DIT TOESTEL MOET GEAARD WORDEN. De stekker moet aangesloten zijn op een juist geaarde contactdoos. Een onjuist geaarde contactdoos kan de metalen onderdelen waarmee de gebruiker eventueel in aanraking komt onder gevaarlijke spanning stellen.

ÉQUIPEMENT DE CLASSE 1 ÉLECTRIQUE

CE MATÉRIEL DOIT ÊTRE MIS A LA TERRE. La prise de courant doit être branchée dans une prise femelle correctement mise à la terre car des tensions dangereuses risqueraient d'atteindre les pièces métalliques accessibles à l'utilisateur.

SÄHKÖ —TYYPPILUOKAN 1 LAITTEET

TÄMÄ LAITE TÄYTYY MAADOITTAA. Pistoche täytyy liittää kunnollisesti maadoitettuun pistorasiaan. Virheellisesti johdotettu pistorasia voi altistaa metalliosat vaarallisille jännitteille.

ELETTRICITÀ—DISPOSITIVI DI CLASSE 1

QUESTO DISPOSITIVO DEVE AVERE LA MESSA A TERRA. La spina deve essere inserita in una presa di corrente specificamente dotata di messa a terra. Una presa non cablata in maniera corretta rischia di scaricare una tensione pericolosa su parti metalliche accessibili.

ELEKTRISK—TYPE 1- KLASSE UTSTYR

DETTE UTSTYRET MÅ JORDES. Strømkontakten må være tilkoplet en korrekt jordet kontakt. En kontakt som ikke er korrekt jordet kan føre til farlig spenninger i lett tilgjengelige metalldeler.

(Continued...)

ELÉTRICO—EQUIPAMENTOS DO TIPO CLASSE 1
DEVE SER FEITA LIGAÇÃO DE FIO TERRA PARA ESTE EQUIPAMENTO. O plugue de alimentação deve ser conectado a uma tomada com adequada ligação de fio terra. Tomadas sem adequada ligação de fio terra podem transmitir voltagens perigosas a peças metálicas expostas.

ELECTRICO—EQUIPO DEL TIPO CLASE 1
ESTE EQUIPO TIENE QUE TENER CONEXION A TIERRA. El cable tiene que conectarse a un enchufe a tierra debidamente instalado. Un enchufe que no está correctamente instalado podría ocasionar tensiones peligrosas en las partes metálicas que están expuestas.

ELEKTRISKT—TYP KLASS 1 UTRUSTNING
DENNA UTRUSTNING MÅSTE VARA JORDAD. Nätkabeln måste vara ansluten till ett ordentligt jordat uttag. Ett felaktigt uttag kan göra att närliggande metalldelar utsätts för högspänning. Apparaten skall anslutas till jordat uttag, när den ansluts till ett nätverk.

ELECTRICAL—CORD NOTICE

Use power cord, maximum 4.5 meters long, rated 6 amp minimum, 250V, made of HAR cordage molded IEC 320 connector on one end and on the other end a plug approved by the country of end use.

NETZKABEL

Das Netzkabel sollte eine maximale Länge von 4,5 Metern, einen Nennwert von mindestens 6 A und 250 V haben, aus HAR-Material hergestellt und mit einer geprüften, IEC 320 entsprechenden, Anschlußverbindung an einem Ende, und am anderen Ende mit einem im Land des Endverbrauchers geprüften Stecker ausgestattet sein.

ELEKTRISK—LEDNING

Anvend ledning af maksimum 4,5 meters længde, med en kapacitet på minimum 6 amp., 250 v, bestående af en IEC 320 connector med indstøbt HAR ledning i den ene ende og et stik i den anden ende, der er godkendt af myndighederne i brugerlandet.

ELEKTRISCHE SNOEREN

Gebruik een elektrisch snoer, maximum 4,5 meter lang, berekend voor ten minste 6 ampère, 250 V, uit HAR vervaardigd, met aan het ene uiteinde een gevormd IEC 320 aansluitstuk en aan het andere uiteinde een stekker die goedgekeurd is door het land waar het toestel gebruikt zal worden.

INFORMATION SUR LE CORDON ÉLECTRIQUE

Utiliser un cordon secteur de 4.5 mètres de long maximum, calibré à 6 ampères minimum, 250V, fabriqué en câblage HAR avec connecteur IEC 32C moulé à une extrémité, et à l'autre extrémité, une prise de courant mâle répondant aux normes du pays d'utilisation.

SÄHKÖ—JOHTOON LIITTYVÄ HUOMAUTUS

Käytä seuraavanlaista virtajohtoa: maksimipituus 4,5 metriä, minimiteho 6 ampeeria, 250 V, valmistettu HAR-johdostosta, muovattu IEC 320 -liitin toisessa päässä ja käyttömaassa hyväksytty pistoke toisessa päässä.

ELETTRICITÀ—AVVERTENZA SUL CAVO

Usare un cavo della lunghezza massima di metri 4,5, con capacità minima di 6 A, 250 V, di filo HAR, dotato di connettore stampato IEC 320 ad un'estremità e di spina approvata dal paese di destinazione all'altra.

ELEKTRISK—MEDDEELSE OM LEDNINGER

Bruk en strømledning av maksimalt 4.5 m. i lengde, godkjent for minst av 6 amp, 250V, fremstilt av HAR ledning IEC 320 koplingsstykke i den ene enden, og i den andre enden en plugg som er blitt godkjent i brukerlandet.

ELÉTRICO—AVISO SOBRE O CABO DE ALIMENTAÇÃO

Use cabo de alimentação com comprimento máximo de 4,5 metros, com uma capacidade indicada mínima de 6 amp e 250 V, fabricado de material para cabo HAR com conector moldado IEC 320 em uma extremidade e, na outra extremidade, um plugue aprovado para uso no país em questão.

(Continued...)

ELECTRICO—ADVERTENCIA SOBRE EL CABLE

Use un cable eléctrico con un máximo de 4,5 metros de largo, con una capacidad mínima de 6 amperios, 250 V, hecho de cable HAR, con el conector moldeado IEC 320 en un extremo y con un enchufe que está aprobado por el país de uso final en el otro.

ELEKTRISKT—ANMÄRKNING BETRÄFFANDE KABELN

Använd en kabel med maximum längd 4,5 meter och minimum 6 amp nominal, 250V, av HAR kabelfabrikat med ett specialutformat IEC 320-kontaktdon i ena änden och i den andra en plugg som godkänts i landet där produkten används.

CAUTION: POWER CORD IS USED AS A DISCONNECTION DEVICE.
TO DE-ENERGISE EQUIPMENT disconnect the power cord.

VORSICHT: DAS NETZKABEL DIENT ZUM TRENNEN DER STROMVERSORGUNG. ZUR TRENNUNG VOM NETZ, KABEL AUS DER STECKDOSE ZIEHEN.

ADVARSEL: DEN STRØMFØRENDE LEDNING BRUGES TIL AT AFBRYDE STRØMMEN. SKAL STRØMMEN TIL APPARATET AFBRYDES, tages ledningen ud af stikket.

WAARSCHUWING: HET TOESTEL WORDT UITGESCHAKELD DOOR DE STROOMKABEL TE ONTKOPPELEN. OM HET TOESTEL STROOMLOOS TE MAKEN: de stroomkabel ontkoppelen.

ATTENTION : LE CORDON D'ALIMENTATION SERT DE MISE HORS CIRCUIT. POUR COUPER L'ALIMENTATION DU MATÉRIEL, débrancher le cordon.

HUOMAUTUS: VIRTajohtoa käytetään virrankatkaisulaitteena. Virta katkaistaan irrottamalla virtajohto.

ATTENZIONE: IL CAVO DI ALIMENTAZIONE È USATO COME DISPOSITIVO DI DISATTIVAZIONE. PER TOGLIERE LA CORRENTE AL DISPOSITIVO staccare il cavo di alimentazione.

FORSIKTIG: STRØMLEDNINGEN BRUKES TIL Å FRAKOBLE UTSTYRET. FOR Å DEAKTIVISERE UTSTYRET, må strømforsyningen kobles fra.

CUIDADO: O CABO DE ALIMENTAÇÃO É UTILIZADO COMO UM DISPOSITIVO DE DESCONEXÃO. PARA DESELETIFICAR O EQUIPAMENTO, desconecte o cabo de ALIMENTAÇÃO.

ATENCION: EL CABLE DE ALIMENTACION SE USA COMO UN DISPOSITIVO DE DESCONEXION. PARA DESACTIVAR EL EQUIPO, desconecte el cable de alimentación.

WARNING: NÄTKABELN ANVÄNDS SOM STRÖMBRYTARE FÖR ATT KOPPLA FRÅN STRÖMMEN, dra ur nätkabeln.

CAUTION: Air vents must not be blocked and must have free access to the room ambient air for cooling.

VORSICHT: Die Entlüftungsöffnungen dürfen nicht versperrt sein und müssen zum Kühlen freien Zugang zur Raumluft haben.

ADVARSEL: Ventilationsåbninger må ikke blokeres og skal have fri adgang til den omgivende luft i rummet for afkøling.

OPGELET: De ventilatiegaten mogen niet worden gesperd en moeten de omgevingslucht ongehinderd toelaten voor afkoeling.

ATTENTION : Ne pas bloquer les fentes d'aération, ceci empêcherait l'air ambiant de circuler librement pour le refroidissement.

HUOMAUTUS: Ilmavaihoreikiä ei pidä tukkia ja niillä täytyy olla vapaa yhteyks ympäröivään huoneilmaan, jotta ilmanvaihto tapahtuisi.

ATTENZIONE: le prese d'aria non vanno ostruite e devono consentire il libero ricircolo dell'aria ambiente per il raffreddamento.

FORSIKTIG: Lufteventilene må ikke blokkeres, og må ha fri tilgang til luft med romtemperatur for avkjøling.

CUIDADO: As aberturas de ventilação não devem ser bloqueadas e devem ter acesso livre ao ar ambiente para arrefecimento adequado do aparelho.

ATENCION: Las aberturas para ventilación no deberán bloquearse y deberán tener acceso libre al aire ambiental de la sala para su enfriamiento.

VARNING: Luftventilerna får ej blockeras och måste ha fri tillgång till omgivande rumsluft för avsvalning.

LIGHTNING DANGER

DANGER: DO NOT WORK on equipment or CABLES during periods of LIGHTNING ACTIVITY.

GEFAHR DURCH BLITZSCHLAG

GEFAHR: Keine Arbeiten am Gerät oder an den Kabeln während eines Gewitters ausführen.

FARE UNDER UVEJR

FARE: UNDLAD at arbejde på udstyr eller KABLER i perioder med LYNAKTIVITET.

GEVAAR VOOR BLIKSEMINSLAG

GEVAAR: NIET aan toestellen of KABELS WERKEN bij BLIKSEM.\

DANGER DE FOUDRE

DANGER : NE PAS MANIER le matériel ou les CÂBLES lors d'activité orageuse.

SALAMANISKUVAARA

HENGENVAAARA: ÄLÄ TYÖSKENTELE laitteiden tai KAAPELEIDEN KANSSA SALAMOINNIN AIKANA.

PERICOLO DI FULMINI

PERICOLO: NON LAVORARE sul dispositivo o sui CAVI durante PRECIPITAZIONI TEMPORALESCHE.

FARE FOR LYNNEDSLAG

FARE: ARBEID IKKE på utstyr eller KABLER i TORDENVÆR.

PERIGO DE CHOQUE CAUSADO POR RAIO

PERIGO: NÃO TRABALHE no equipamento ou nos CABOS durante períodos suscetíveis a QUEDAS DÉ RAIO.

PELIGRO DE RAYOS

PELIGRO: NO REALICE NINGUN TIPO DE TRABAJO O CONEXION en los equipos o en LOS CABLES durante TORMENTAS ELECTRICAS.

FARA FÖR BLIXTNEDSLAG

FARA: ARBETA EJ på utrustningen eller kablarna vid ÅSKVÄDER.

OPERATING TEMPERATURE

This product is designed for a maximum ambient temperature of 40 degrees C.

BETRIEBSTEMPERATUR

Dieses Produkt wurde für den Betrieb in einer Umgebungstemperatur von nicht mehr als 40° C entworfen.

BETJENINGSTEMPERATUR

Dette apparat er konstrueret til en omgivende temperatur på maksimum 40 grader C.

BEDRIJFSTEMPERATUUR

De omgevingstemperatuur voor dit produkt mag niet meer bedragen dan 40 graden Celsius.

TEMPÉRATURE DE FONCTIONNEMENT

Ce matériel est capable de tolérer une température ambiante maximum de 40 degrés Celsius.

KÄYTTÖLÄMPÖTILA

Tämä tuote on suunniteltu ympäröivän ilman maksimilämpötilalle 40°C.

TEMPERATURA DI FUNZIONAMENTO

Questo prodotto è concepito per una temperatura ambientale massima di 40 gradi centigradi.

DRIFTSTEMPERATUR

Dette produktet er konstruert for bruk i maksimum romtemperatur på 40 grader celsius.

TEMPERATURA DE FUNCIONAMENTO

Este produto foi projetado para uma temperatura ambiente máxima de 40 graus centígrados.

TEMPERATURA REQUERIDA PARA LA OPERACIÓN

Este producto está diseñado para una temperatura ambiental máxima de 40 grados C.

DRIFTSTEMPERATUR

Denna produkt är konstruerad för rumstemperatur ej överstigande 40 grader Celsius.

ALL COUNTRIES: Install product in accordance with local and National Electrical Codes.

ALLE LÄNDER: Installation muß örtlichen und nationalen elektrischen Vorschriften entsprechen.

ALLE LANDE: Installation af produktet skal ske i overensstemmelse med lokal og national lovgivning for elektriske installationer.

ALLE LANDEN: het toestel installeren overeenkomstig de lokale en nationale elektrische voorschriften.

POUR TOUS PAYS : Installer le matériel conformément aux normes électriques nationales et locales.

KAIKKI MAAT: Asenna tuote paikallisten ja kansallisten sähköturvallisuusmääräysten mukaisesti.

TUTTI I PAESI: installare il prodotto in conformità delle vigenti normative elettriche nazionali.

ALLE LAND: Produktet må installeres i samsvar med de lokale og nasjonale elektriske koder.

TODOS OS PAÍSES: Instale o produto de acordo com as normas nacionais e locais para instalações elétricas.

PARA TODOS LOS PAÍSES: Monte el producto de acuerdo con los Códigos Eléctricos locales y nacionales.

ALLA LÄNDER: Installera produkten i enlighet med lokala och statliga bestämmelser för elektrisk utrustning.

ELECTRICAL—AUTO VOLTAGE ADJUSTMENT

This product will automatically adjust to any voltage between the ranges shown on the label.

AUTOMATISCHE SPANNUNGSEINSTELLUNG

Dieses Gerät stellt sich automatisch auf die auf dem Etikett aufgeführten Spannungswerte ein.

ELEKTRISK—AUTOMATISK SPÆNDINGSREGULERING

Dette apparat vil automatisk tilpasse sig enhver spænding indenfor de værdier, der er angivet på etiketten.

ELEKTRISCH: AUTOMATISCHE AANPASSING VAN DE SPANNING

Dit toestel past zich automatisch aan elke spanning aan, tussen de op het label vermelde waarden.

RÉGLAGE DE TENSION AUTOMATIQUE ÉLECTRIQUE

Ce matériel peut s'ajuster automatiquement sur n'importe quelle tension comprise dans la plage indiquée sur l'étiquette.

SÄHKÖ—AUTOMAATTINEN JÄNNITTEENSÄÄTÖ

Tämä tuote säättää automaattisesti mihin tahansa jännitteeseen ohjetarrassa annetujen arvojen välillä.

ELETTRICITÀ—REGOLAZIONE AUTOMATICA DELLA TENSIONE

Questo prodotto regolerà automaticamente la tensione ad un valore compreso nella gamma indicata sull'etichetta.

ELEKTRISK—AUTO SPENNINGSTILPASNING

Dette produktet vil automatisk bli tilpasset hvilken som helst strømstasjon i de områdene som vises på etiketten.

ELÉTRICO—AJUSTE AUTOMÁTICO DE VOLTAGEM

Este producto ajustar-se-á automaticamente a qualquer voltagem que esteja dentro dos limites indicados no rótulo.

ELECTRICO—AUTO-AJUSTE DE TENSION

Este producto se ajustará automáticamente a cualquier tensión entre los valores máximos y mínimos indicados en la etiqueta.

ELEKTRISKT—AUTOMATISK SPÄNNINGSJUSTERING

Denna produkt justeras automatiskt till alla spänningar inom omfånget som indikeras på produktens märkning.

Appendix B

Technical Specifications

Table B-1 lists the technical specifications for the AT-3714F, AT-3726 Switch.

Table B-1 AT-3714F, AT-3726 Technical Specifications

Physical Specifications		
	Dimensions (H x W x D)	Weight
Base Unit (fully loaded)	2.593 in. x 17.33 in. x 12.60 in. (6.59 cm x44.02 cm x 32.00 cm)	10 lbs., 13 oz. (4.9 kg)
Required ventilation on all sides	7.5 in. (191 mm)	
Environmental Specifications		
Operating temperature	32° to 104° F (0°C to 40°C)	
Storage temperature	-4° to 15° F (-20°C to 60°C)	
Operating humidity	5% to 95% non-condensing	
Operating altitude range	up to 9,843 ft. (3,000 m)	
Power Specifications		
Maximum power consumption	100 W	
AC input voltage	100-120/200-240VAC~ +10%-6% (autoranging)	
Frequency	50/60 Hz +/-3 cycles of nominal input frequency	
Safety and Electromagnetic Emissions Certifications		
Safety: UL 1950	CSA 22.2 No. 950	EN 60950 (TUV)
EMI		
AT-3726 FCC Class A	EN55022 Class A	VCCI Class A
AT-3714F FCC Class B	EN55022 Class B	VCCI Class B
Immunity: EN50082-1	Quality and Reliability: MTBF > 50,000 hrs.	MTTR < 1/2 hr. DOA < 1%

Table B-2 RJ45 Pin Assignments for AT-3714F (Mirror port) and AT-3726

Pin Number	Function
1	RD+
2	RD-
3	TD+
4	Unused
5	Unused
6	TD-
7	Unused
8	Unused

Media Dependent Adapter Cabling Distances

Table B-3 lists the maximum cable distances for the AT-3714F, AT-3726 Switch Media Dependent Adapter (MDA).

Table B-3 MDA Maximum Cable Distances

MDA	Ethernet Type	Maximum Distance
AT-3701F/SC	SC (100Base)	1.25 miles (2 km for full duplex, 412 M for half duplex) 50/125 and 62.5/125 micron multimode fiber cable
AT-3701	RJ45 (10/100Base)	330 ft. (100m), twisted pair Category 5 UTP

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