

# Accton

Making Partnership Work

## CheetahHub Power-3008P/3016P Quick Installation Guide

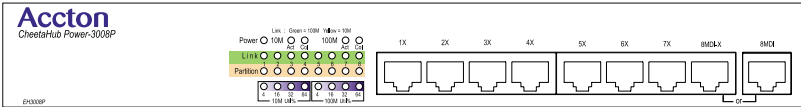


## Quick Installation Guide

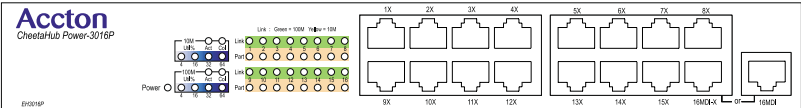
### CheetaHub Power-3008P/16P

Fast Ethernet Dual-Speed Hubs  
with 8/16 10/100Mbps (RJ-45) Ports,  
and Internal Switch

#### CheetaHub Power-3008P



#### CheetaHub Power-3016P



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EH3008P  
EH3016P  
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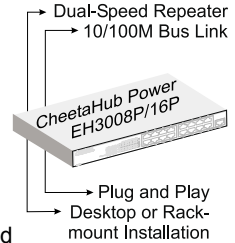
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## Introduction

The CheetaHub Power-3008P/16P provides 8 (16) RJ-45 ports that automatically adjust to the speed of the attached device (for 10Mbps Ethernet or 100Mbps Fast Ethernet connections). These dual-speed hubs contain two internal repeater buses – one for 10Mbps traffic and another for 100Mbps traffic. Traffic passing between attached devices that operate at the same speed is confined within the appropriate repeater bus. But when traffic must pass between 10 and 100Mbps devices, when the destination address is not found in the address table, or broadcast traffic is sent, data is forwarded to the other repeater bus via an internal 10/100Mbps switch.

These hubs provide an ideal bridge between 10 and 100Mbps Ethernet networks. Moreover, the smart design built into the display panel provides a friendly interface that simplifies installation and network troubleshooting.



## Installing the Hub

Before installing the hub, please verify that you have all the items listed under “Package Contents.” If any of the items are missing or damaged, contact your local Accton distributor. Also be sure you have all the necessary tools and cabling before installing the hub. Note that this hub can be installed on any suitably large flat surface or in a standard EIA 19-inch rack.

## Package Contents

The CheetaHub Power-3008P/16P includes:

- CheetaHub Power-3008P (Model No. EH3008P)
  - Fast Ethernet dual-speed hub with 8 10/100Mbps ports, and internal switch
- or CheetaHub Power-3016P (Model No. EH3016P)
  - Fast Ethernet dual-speed hub with 16 10/100Mbps ports, and internal switch
- Four rubber foot pads
- Rack mount bracket kit
- AC power cord
- Quick Installation Guide
- Owner registration card

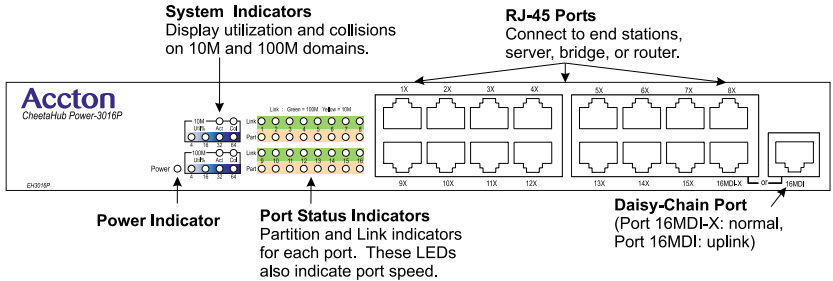
## Description of Hardware

These hubs provide 8 (16) dual-speed ports (10/100 Mbps). Each port automatically senses the speed of the attached device, and channels data to the appropriate repeater bus. The learning function of the hub stores the node address and corresponding segment number (i.e., bus 1 or 2) of each incoming packet in a routing table. If the source and destination node operate at different speeds, this information is subsequently used to pass traffic to the segment

## CheetaHub Power-3008P/3016P

containing the destination node via a 2-port switch that connects the two repeater buses. By confining traffic to its respective collision domain, and only forwarding traffic to the other segment when required, the overall load on the network is significantly reduced.

These hubs provide a friendly design that simplifies installation and network troubleshooting. The following figure shows the components of the EH3016P:



## Mounting the Hub

These hubs can be placed directly on your desktop, or mounted in a rack.

Before you start installing the hub, make sure you can provide the right operating environment, including power requirements, sufficient physical space, and proximity to other network devices that are to be connected. Verify the following installation requirements:

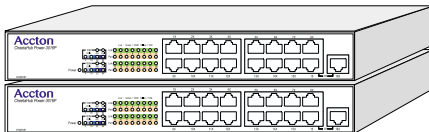
- Power requirements: 100 to 240 VAC ( $\pm 10\%$ ) at 50 to 60 Hz ( $\pm 3\text{Hz}$ ). The hub's power supply automatically adjusts to the input voltage level.
- The hub should be located in a cool dry place, with at least 10 cm. (4 in.) of space at the front and back for access to the ports and ventilation.
- Place the hub out of direct sunlight, and away from heat sources or areas with a high amount of electromagnetic interference.
- If you intend to mount the hub in a rack, make sure you have all the necessary mounting screws, brackets, bolts and nuts, and the right tools.
- Check if network cables and connectors needed for installation are available.

## Stacking Hubs on a Flat Surface

These CheetaHubs can be stacked any place where there is enough flat space, such as on a table or desktop.

1. Stick the self-adhesive rubber foot pads (that come with this package) on each of the 4 concave spaces located on the bottom of the first hub.

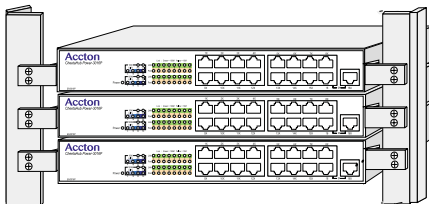
- Place the first hub on a firm flat surface where you want to install the stack.
- Repeat step 1 for each hub before stacking them. The rubber foot pads cushion the hub against shock/vibrations and provide space between each hub for ventilation.



## Mounting Hubs in a Rack

Please comply with the following instructions to ensure that your hub is securely mounted in the rack.

- Use a standard EIA 19-inch rack.
- Use the brackets and screws supplied in the rack mounting kit.
- Use a cross-head screwdriver to attach the brackets to the side of the hub.
- Position the hub in the rack by lining up the holes in the brackets with the appropriate holes on the rack, and then use the supplied screws to mount the hub in the rack.



## Connecting the Hub System

These hubs have 8 (16) dual-speed RJ-45 station ports, one of which also serves as a dual-speed MDI daisy-chain port.

### Making a Connection via an RJ-45 Station Port

You can connect any RJ-45 (MDI-X) station port on the hub to any device that uses a standard network interface such as a workstation or server, or to a network interconnection device such as a bridge or router (depending on the port type implemented).

- Prepare the devices you wish to network. Make sure you have installed 10BASE-T or 100BASE-TX network interface cards for connecting to the hub's RJ-45 (MDI-X) station ports.
- You also need to prepare straight-through shielded or unshielded twisted-pair cables with RJ-45 plugs at both ends. Use 100Ω Category 3, 4 or 5 cable for standard 10Mbps Ethernet connections, or 100Ω Category 5 cable for 100Mbps Fast Ethernet connections.



3. Connect one end of the cable to the RJ-45 port of the network interface card, and the other end to any available (MDI-X) station port on the hub. The RJ-45 ports support 10Mbps and 100Mbps Ethernet connections. When inserting an RJ-45 plug, be sure the tab on the plug clicks into position to ensure that it is properly seated. Using a hub in a stand-alone configuration, you can network up to 8 (16) end nodes.



Do not plug a phone jack connector into any RJ-45 port. This may damage the hub. Use only twisted-pair cables with RJ-45 connectors that conform with FCC standards.

- Notes:**
1. Make sure each twisted-pair cable does not exceed 100 meters (328 feet).
  2. We advise using Category 5 cable for all network connections to avoid any confusion or inconvenience in the future when you upgrade attached devices to Fast Ethernet.

### Making a Connection via an MDI Daisy-Chain Port

To make a direct connection to another compatible hub or switch:

1. Prepare straight-through shielded or unshielded twisted-pair cables with RJ-45 plugs at both ends. Use 100Ω Category 3, 4 or 5 cable for standard 10Mbps Ethernet connections, or 100Ω Category 5 cable for 100Mbps Fast Ethernet connections.
2. Plug one end of the network cable into Port 16MDI on the hub, and the other end to any MDI-X station port on the other device. When inserting an RJ-45 plug, be sure the tab on the plug clicks into position to ensure that it is properly seated.

- Notes:**
1. Make sure each twisted-pair cable does not exceed 100 meters (328 feet).
  2. To connect to another hub or switch, you may also attach any RJ-45 MDI-X port on the hub to an MDI daisy-chain port on the other device. Or attach crossover cabling to (MDI-X) station ports at both ends.

**Restrictions on Cascade Length** - When cascading to another repeater, note that the attached repeaters will function as a single logical repeater, with all ports attached to the same collision domain.

- **10 Mbps Cascade** - Based on the IEEE 802.3 recommendation, you may cascade up to four 10Mbps hubs.
- **100 Mbps Cascade** - When cascading to a Fast Ethernet hub, limit the daisy-chain to two hubs. Another limitation for cascading Fast Ethernet concerns connection length. All end-node devices (e.g., workstations or servers) must be within 100 meters (328 feet) of the connected hub; and the overall length between any two nodes should not exceed 205 meters (672 feet). The easiest way to cascade two Fast Ethernet hubs is to connect the MDI daisy-chain port on the front panel to an MDI-X port on the other hub. For example, if both node A and B are linked to separate repeaters in a two hub system, each using 100 meters of cable to connect to their respective hub, then the inter-hub

cabling will be limited to 5 meters (16 feet). The only way to extend the inter-hub cabling, would therefore be to reduce the length of the cabling used to attach the end nodes to the hubs.

- **Ethernet Switch** - There are no formal restrictions on cascade length if a device is connected to a switch, which effectively breaks up the collision domain. When a collision domain is broken up by a device like a switch, cascade length is limited only by the time-out requirements of the particular applications running over the network.

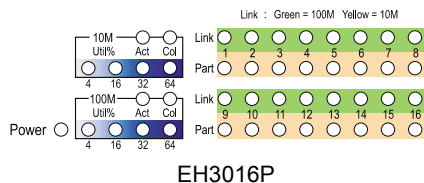
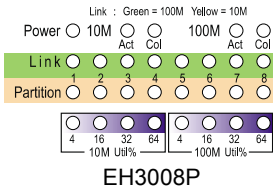
## Powering On the Hub

1. Plug the power cord into the power socket at the rear of the hub, and the other end into a power outlet.
2. Check the LED marked Power on the front panel to see if it is on. The unit will automatically select the setting that matches the connected input voltage. Therefore, no additional adjustments are necessary when connecting it to any input voltage within the range marked on the rear panel.
3. The hub performs a self-diagnostic test upon power-on.

**Note:** The unit supports a "hot remove" feature which permits you to connect/disconnect cables without powering off the hub and without disrupting the operation of the devices attached to the hub.

## Verifying Port Status

Check each connection by viewing the port status indicators shown in the following figure and table.



Port and Hub Status LEDs		
LEDs	Condition	Status
Power	Green	Hub is receiving power.
Link	Yellow	Indicates a valid 10BASE-T connection between port and attached device.
	Green	Indicates a valid 100BASE-TX connection between port and attached device.
Partition	Yellow	Port has been partitioned due to an abnormal condition.
Col	Flashing Yellow	Indicates that a packet collision has been detected on the indicated segment.
Act	Flashing Green	Indicates that the port is transmitting or receiving data.
Util%	Green	Shows segment bandwidth utilization at 4/16/32%.
	Yellow	Shows segment bandwidth utilization at 64%.

## Verifying System Operation

Verify that all attached devices have a valid connection. The hub monitors the link status for each port. If any device is properly connected to the hub and transmitting a link beat signal, the Link indicator will light up for the corresponding port. If the Link indicator fails to light, see Troubleshooting on page 8.

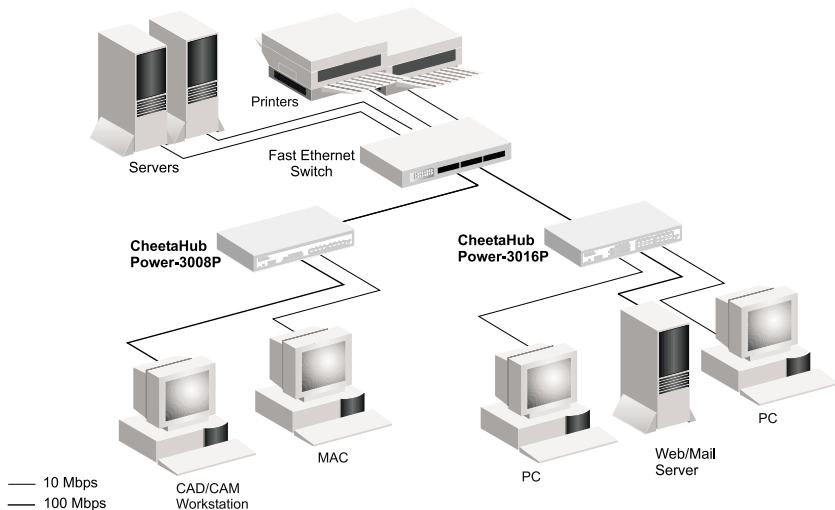
## Applications

These dual-speed CheetaHubs allow great flexibility in configuring your network. You can use them to mix and match legacy Ethernet and Fast Ethernet network resources on your local network. Moreover, you can easily extend your LAN by making a high-speed connection to a collapsed backbone device (e.g., a switch or a router).

**Stand-Alone Network** - These CheetaHubs have an internal switching function that can be used in a simple stand-alone configuration as illustrated on the next page. Regardless of whether you are making 10 or 100 Mbps connections with twisted-pair cable, limit the distance for each cable to 100 meters (328 feet).

**Cascading Hubs with the Daisy-Chain Port** - You can easily connect to another hub or switch via the RJ-45 MDI daisy-chain port on the front panel. The figure on the next page shows a sample configuration. When connecting to 10Mbps Ethernet, the maximum number of hubs that can be cascaded is four (with up to 100 meters or 328 feet of cable allowed between each hub). However, when connecting to another Fast Ethernet hub, the number of hubs that can be cascaded is limited to two, and the total network span allowed is only 205 meters (672 feet).

**Connecting to a Network Backbone** - You can easily connect to a collapsed backbone switch via the RJ-45 MDI daisy-chain port on the front panel. Because a switch breaks up the collision domain, it can be used to connect multiple CheetaHubs.



## Product Specifications

### Repeater Criteria

Access Method	CSMA/CD, 10 Mbps or 100 Mbps
Standards Conformance	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX
Communication Rate	10/100 Mbps on all RJ-45 ports
Media Supported	10BASE-T - 100Ω Category 3,4,5 twisted-pair 100BASE-TX - 100Ω Category 5 twisted-pair
Number of Ports	8 RJ-45 ports (EH3008P), 16 RJ-45 ports (EH3016P) All models have 1 MDI daisy-chain port
Indicator Panel	LEDs for monitoring port speed, port link, port partition, collision, utilization, and power
Dimensions	273 x 166 x 43 mm (10.75 x 6.54 x 1.69 in)
Weight	EH3008P: 1.38 kg (3.042 lbs) EH3016P: 1.49 kg (3.285 lbs)
Input Power	Full range power input: 100 to 240VAC, 50 to 60 Hz, 0.3A
Power Consumption	20 Watts
Heat Dissipation	68.2 BTU/hr

## CheetaHub Power-3008P/3016P

Maximum Current	0.3A <sub>RMS</sub> max. @ 110VAC, 0.1A <sub>RMS</sub> max. @ 240VAC
Temperature	0°C to 50°C (32 to 122°F) Standard Operating, -40~70°C (-40~158°F) Storage
Humidity	5% to 95% (Noncondensing)
Certification	CE Mark
Emissions	FCC Class A, VCCI Class A, EN55022 (CISPR22) Class A
Immunity	IEC 1000-4-2/3/4/6
Safety	CSA/NRTL (C22.2.950, UL 1950), TÜV/GS (EN60950) IEC60950 (CB Report)

## Internal Switching Criteria

Network Bridging Function	Filtering, forwarding and learning
Switching Method	Store-and-forward
Address Table	1.7K entries
Queue Buffer	240K bytes per unit
Filtering Rate	Line speed
Forwarding Rate	Line speed

## Troubleshooting

### Diagnosing Hub Indicators

The hub can be easily monitored through panel indicators to assist the network manager in identifying problems. This section describes common problems you may encounter and possible solutions.

**Symptom:** Power indicator does not light up (green) after power on.

**Cause:** Defective power outlet, power cord, or internal power supply.

**Solution:** Check the power outlet by plugging in another device that is functioning properly. Check the power cord with another device. If these measures fail to resolve the problem, have the unit's power supply replaced by a qualified Accton distributor.

**Symptom:** Link indicator does not light up after making a connection.

**Cause:** Network interface (e.g., a network adapter card on the attached device), network cable, or hub port is defective.

**Solution:** Verify that the hub and attached device are powered on. Be sure the cable is plugged into both the hub and corresponding device. Verify that the proper cable type is used and its length does not exceed specified limits. Check the adapter on the attached device and cable connections for possible defects. Replace the defective adapter or cable if necessary.

## Power and Cooling Problems

If the Power indicator does not turn on when the power cord is plugged in, you may have a problem with the power outlet, power cord, or internal power supply as explained in the previous section. However, if the unit powers off after running for a while, check for loose power connections, power losses or surges at the power outlet, and verify that the fan on back of the unit is unobstructed and running prior to shutdown. If you still cannot isolate the problem, then the internal power supply may be defective. In this case, contact your Accton distributor for assistance.

## Cabling and Adapters

If the Link indicator fails to light when you connect a device to the hub, check the following items:

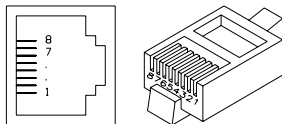
- Be sure the twisted-pair cable is properly attached to the connected device and the hub. Verify that the media connector snaps into place when attached.
- See if your cable is functioning properly by using it for another port and attached device that displays valid indications when connected to the network.
- Check the length of each twisted-pair cable to be sure it does not exceed 100 meters (328 feet). If you have cascaded two Fast Ethernet hubs together, be sure the interhub cabling is no longer than 5 meters (16 feet).
- Verify that the workstation's adapter card is functioning properly by trying it in another computer that has been successfully connected to the network.

## Installation

Verify that all system components have been properly installed. If one or more components appear to be malfunctioning (e.g., the power cord or network cabling), test them in an alternate environment where you are sure that all the other components are functioning properly.

## Port and Cable Assignments

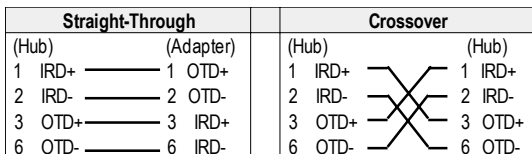
### RJ-45 Port Description



RJ-45 (MDI-X) station ports can be attached to any devices which use a standard network interface (e.g., a workstation, server, bridge or router). RJ-45 (MDI) daisy-chain ports can be cascaded to a station port on similar networking devices (e.g., another hub or switch). Use unshielded twisted-pair (UTP) or shielded twisted-pair (STP) cable for RJ-45 connections: 100Ω Category 3, 4 or 5 cable for 10 Mbps connections or 100Ω Category 5 cable for 100 Mbps connections. Also be sure that the length of any twisted-pair connection does not exceed 100 meters (328 feet).

Pin	Assignment (Station Ports)	Assignment (Daisy-Chain Port)
1	Input Receive Data +	Output Transmit Data +
2	Input Receive Data -	Output Transmit Data -
3	Output Transmit Data +	Input Receive Data +
6	Output Transmit Data -	Input Receive Data -
4,5,7,8	Not Used	Not Used

Schematics for both straight and crossover twisted-pair cable are shown below.



## EMI Certification

### FCC Class A (USA)

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

Use Category 3, 4 or 5 unshielded or shielded twisted-pair cable for all 10Mbps RJ-45 connection, and Category 5 unshielded or shielded twisted-pair for all 100Mbps RJ-45 connections.

### Class A (Canada Department of Communications)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Department of Communications.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe A prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques", NMB-003 édictée par le ministère des Communications.

## VCCI Class A Compliance (Japan)

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

## BCIQ Class A Compliance (Taiwan)

警告使用者：這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

## CE Mark Declaration of Conformance (for EMI and Safety - Europe)

This is to certify that this product complies with ISO/IEC Guide 22 and EN45014. It conforms to the following specifications:

EMC: EN55022(1988)/CISPR-22(1985)	Class A
IEC1000-4-2(1995)	4kV CD, 8kV AD
IEC1000-4-3(1995)	3V/m
IEC1000-4-4(1995)	1kV - (power line), 0.5kV - (signal line)
IEC 1000-4-6(1995)	3Vrms

This product complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC.

**Warning!** Do not plug a phone jack connector in the RJ-45 port. This may damage this device. Les raccordeurs ne sont pas utilisé pour le système téléphonique!

## Safety Compliance

### Underwriters Laboratories Inc. (USA)

**Important!** Before making connections, make sure you have the correct Cord Set. Check it (read the label on the cable) against the following specification list.



<b>Voltage</b>	<b>Cord Set Specifications</b>
120 Volts	UL Listed/CSA Certified Cord Set
	Minimum 18 AWG; type SVT or SJT three conductor cord
	Maximum length of 15 feet
	Parallel blade, grounding type attachment plug rated 15A, 125V
240 Volts (North America)	UL Listed/CSA Certified Cord Set
	Minimum 18 AWG; type SVT or SJT three conductor cord
	Maximum length of 15 feet
	Tandem blade, grounding type attachment plug rated 15A, 125V
240 Volts (Europe only)	Cord Set with H05VV-F cord having three conductors with minimum diameter of 0.75 mm <sup>2</sup>
	IEC-320 receptacle; male plug rated 10A, 250V

### Wichtige Sicherheitshinweise (Germany)

1. Bitte lesen Sie diese Hinweise sorgfältig durch.
2. Heben Sie diese Anleitung für den späteren Gebrauch auf.
3. Vor jedem Reinigen ist das Gerät vom Stromnetz zu trennen. Verwenden Sie keine Flüssigoder Aerosolreiniger. Am besten eignet sich ein angefeuchtetes Tuch zur Reinigung.
4. Die Netzanschlus ßsteckdose soll nahe dem Gerät angebracht und leicht zugänglich sein.
5. Das Gerät ist vor Feuchtigkeit zu schützen.
6. Bei der Aufstellung des Gerätes ist auf sicheren Stand zu achten. Ein Kippen oder Fallen könnte Beschädigungen hervorrufen.
7. Die Belüftungsöffnungen dienen der Luftzirkulation, die das Gerät vor Überhitzung schützt. Sorgen Sie dafür, daß diese Öffnungen nicht abgedeckt werden.
8. Beachten Sie beim Anschluß an das Stromnetz die Anschlußwerte.
9. Verlegen Sie die Netzanschlus ßleitung so, daß niemand darüber fallen kann. Es sollte auch nichts auf der Leitung abgestellt werden.
10. Alle Hinweise und Warnungen, die sich am Gerät befinden, sind zu beachten.
11. Wird das Gerät über einen längeren Zeitraum nicht benutzt, sollten Sie es vom Stromnetz trennen. Somit wird im Falle einer Überspannung eine Beschädigung vermieden.
12. Durch die Lüftungsöffnungen dürfen niemals Gegenstände oder Flüssigkeiten in das Gerät gelangen. Dies könnte einen Brand bzw. elektrischen Schlag auslösen.
13. Öffnen sie niemals das Gerät. Das Gerät darf aus Gründen der elektrischen Sicherheit nur von autorisiertem Servicepersonal geöffnet werden.
14. Wenn folgende Situationen auftreten ist das Gerät vom Stromnetz zu trennen und von einer qualifizierten Servicestelle zu überprüfen:
  - a. Netzkabel oder Netzstecker sind beschädigt.
  - b. Flüssigkeit ist in das Gerät eingedrungen.
  - c. Das Gerät war Feuchtigkeit ausgesetzt.
  - d. Wenn das Gerät nicht der Bedienungsanleitung entsprechend funktioniert oder Sie mit Hilfe dieser Anleitung keine Verbesserung erzielen.
  - e. Das Gerät ist gefallen und/oder das Gehäuse ist beschädigt.
  - f. Wenn das Gerät deutliche Anzeichen eines Defektes aufweist.

Der arbeitsplatzbezogene Schalldruckpegel nach DIN 45 635 Teil 1000 beträgt 70dB(A) oder weniger.

15. Zum Netzanschluß dieses Gerätes ist eine geprüfte Leitung zu verwenden. Für einen Nennstrom bis 6A und einem Gerätegewicht größer 3kg ist eine Leitung nicht leichter als H05VV-F, 3G, 0.75mm<sup>2</sup> einzusetzen.

## Warranty

Accton warrants to the original owner that the product delivered in this package will be free from defects in material and workmanship for a period of three years from the date of purchase from Accton or it's Authorized reseller. For the warranty to apply, you must register your purchase by returning the registration card indicating the date of purchase and including proof of purchase. There will be a minimal charge to replace consumable components, such as fuses, power transformers, and mechanical cooling devices. The warranty does not cover the product if it is damaged in the process of being installed. Accton recommends that you have the company from whom you purchased this product install it.

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