

Dell™ Powered USB Hub

Product Information Guide

Dell™ Powered USB Hub

Product Information Guide

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Model TF661

www.dell.com | support.dell.com

Notes, Notices, and Cautions



NOTE: A NOTE indicates important information that helps you make better use of your Powered USB Hub



NOTICE: A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



CAUTION: A CAUTION indicates a potential for property damage, personal injury, or death

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February 2006 TF662 (A00)

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Safety



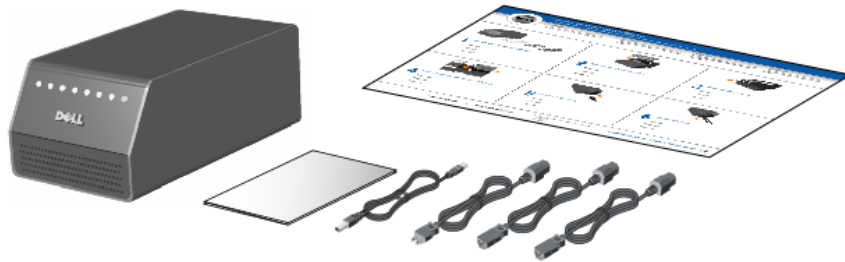
CAUTION: Use of procedures other than those specified in this documentation may result in exposure to shock, electrical hazards, and/or mechanical hazards.

- Read and understand all instructions before using the Dell™ Powered USB Hub.
- To reduce the risk of electric shock, do not immerse the Dell™ Powered USB Hub in water or any other liquid.
- Never disassemble or touch the inside of the Dell™ Powered USB Hub. This action could result in electrical shock.
- Service or repair work should be done by a qualified service person. Incorrect reassembly can cause electric shock.
- To keep from damaging your Dell™ Powered USB Hub, avoid exposing it to moisture and extreme temperatures.
- To help protect your product from sudden, transient increases and decreases in electrical power, use a surge suppressor, line conditioner, or uninterruptible power supply (UPS).
- Do not use your Powered USB Hub in a wet environment, for example, near a bath tub, sink, or swimming pool or in a wet basement.
- Ensure that nothing rests on your product's cables and that the cables are not located where they can be stepped on or tripped over.
- Use only the power cable provided with this product or the manufacturer's authorized replacement power cable.
- Connect the power cable to an electrical outlet that is near the product and easily accessible.
- To completely turn off the product, the power cable must be removed from the power source.
- Refer service or repairs, other than those described in the user documentation, to a professional service person.
- Do not set up this product or make any electrical or cabling connections, such as the power cable or telephone, during an electrical storm.
- The Dell™ Powered USB Hub is for use with UL Listed products only (USA and Canada).

Overview

The Dell™ Powered USB Hub is designed to connect up to six Powered USB peripherals. While designed for POS applications, the Dell™ Powered USB Hub is ideal for any circumstance requiring Powered USB peripherals.

Unpacking

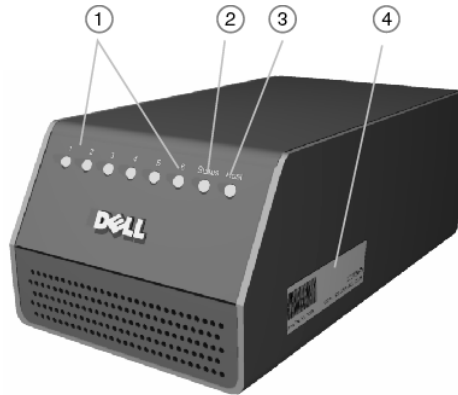


Unpack your Dell™ Powered USB Hub. Confirm contents of box:

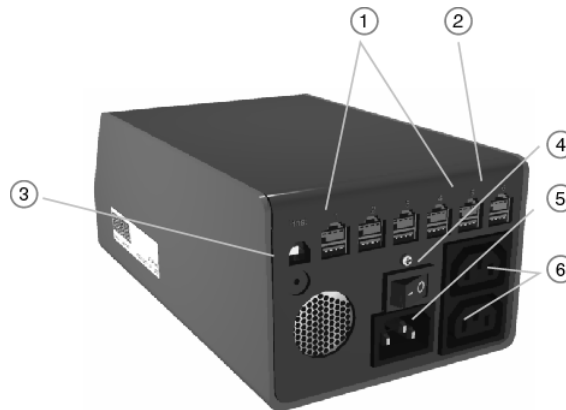
- Dell™ Powered USB Hub
- Product Information Guide (this manual)
- Placemat
- USB Host Cable
- AC Power Cable
- AC Pass-Through Cables (2)

Component Identification

Inspect your Dell™ Powered USB Hub and become familiar with its external components.




1. Port LEDs (6)
2. Status LED
3. Host LED
4. Service Tag Label

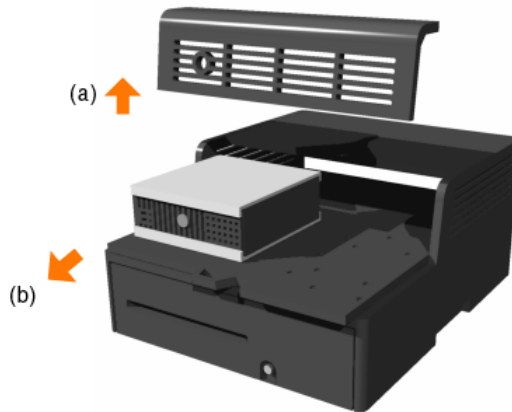


1. USB Peripheral Ports (+12 V) (5)
2. USB Peripheral Port (+24 V)
3. USB Host Port
4. Power Switch
5. AC Power Port
6. AC Pass-Through Power Ports (2)

Installation

 **Note:** Installation instructions assume that the Dell™ Powered USB Hub is installed into an Integrator. If an Integrator is not used, place the Powered USB Hub in a secure location and follow the below instructions; skipping the steps that mention the Integrator.

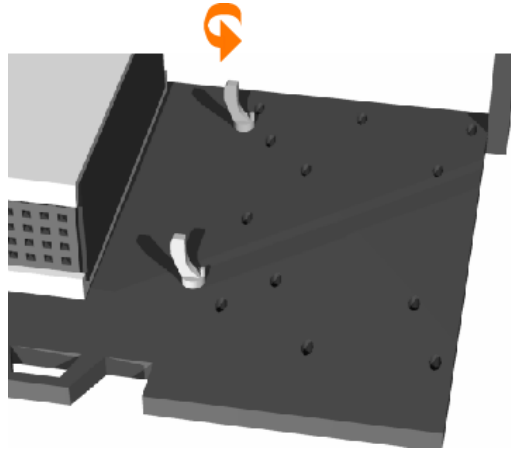
Remove Integrator cover and slide tray out



Remove the front cover from the Integrator¹ by gently sliding it up (a). Once the cover is removed, depress the retaining button and slide the Integrator's PC tray out (b).

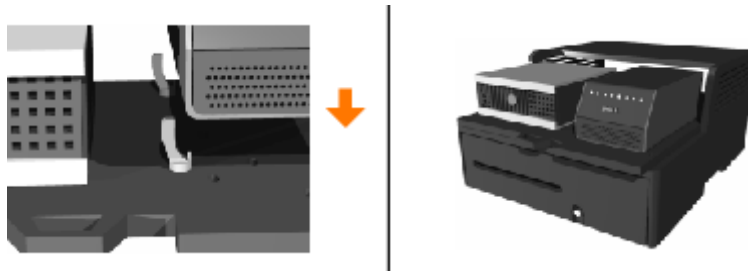
¹ Consult the Integrator's *Product Information Guide* for additional details

Install retainers



Place the retainers provided with the Integrator in the holes shown and secure by rotating counter-clockwise.

Install Powered USB Hub



Align the Powered USB Hub alignment holes with the retainers. Ensure retainers are in proper holes if alignment does not seem correct. Allow hub to slowly slide down retainers until it sits flatly on the Integrator's tray.

Connect AC power cord to hub and power outlet



Ensure the Hub Power Switch is off. Connect the AC power cable to Hub and power outlet

Connect AC pass-through power cords to hub

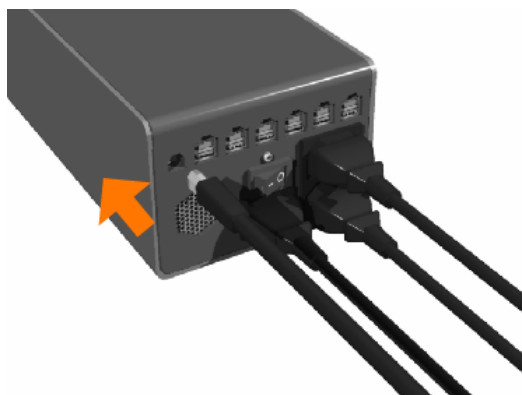


Connect AC pass-through cables (2) to Hub. Connect one of these cables to the Host PC and the other to the LCD monitor.



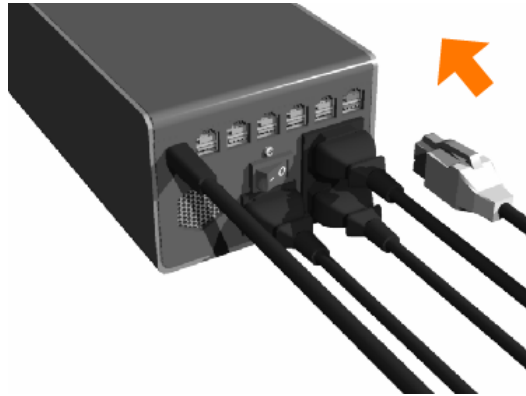
CAUTION: Pass-through power availability is limited. See Specification section for details

Connect USB Host cable



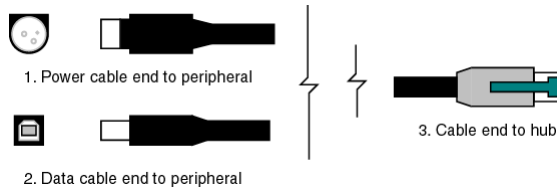
Connect USB Host cable to hub and Host PC. Secure cable to hub.

Connect peripherals



CAUTION: Failure to follow the provided connection order may result in damage to peripheral and/or Powered USB Hub

Select correct Powered USB cable as required by peripheral (12V or 24V). Ensure peripherals² are powered off (if applicable). Guide Powered USB cables through back of Integrator and connect as follows:



1. Connect Powered USB power cable end to peripheral
2. Connect Powered USB data cable end to peripheral
3. Connect Powered USB cable end to Powered USB Hub



NOTE: Connectors are “keyed” so that only the proper voltage level Powered USB cables can be connected to the hub



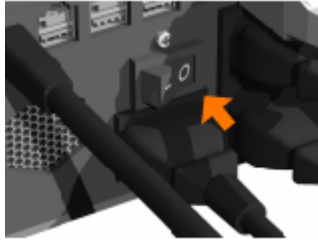
+12 V



+24 V

² Consult peripheral's *Product User Guides* for additional details

Turn hub power switch on



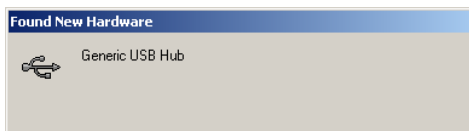
Turn the power switch on Powered USB hub on. Observe that the Status LED is illuminated. If the Status LED is not illuminated, ensure that the AC power cable is fully seated in both the hub and the power output and that the power outlet is functional.

Allows Windows to install hub driver

(Windows XP)



(Windows 2000)



Windows will detect the Powered USB Hub as a "Generic USB Hub". It should automatically install a driver for it without any user intervention. Once driver is installed, the Host LED should be illuminated. If the Host LED is not illuminated, ensure that the driver has installed properly.

Allow Windows to install peripheral driver(s)



After the hub driver is installed, Windows will install drivers for any peripheral devices attached to the Powered USB Hub. Power switch for the device (if applicable) should now be turned on. Consult the specific peripheral's *Product Information Guide* to ensure that its driver(s) are properly installed.

After the driver is installed, the Port LED should be illuminated Green. If the Port LED is illuminated Amber, it indicates excessive current is being drawn through the USB connection. If this occurs, shut the device down, disconnect it from the hub, and consult the device's *Product Information Guide*.

Slide Integrator tray in



Slide Integrator tray back in. Ensure retaining button is released so that the tray is secured.

Replace Integrator cover



Align Integrator cover and slide down into place.

Specifications

General

Connection Type	USB Full Speed Device (Data Rate 12 Mbps)
Supported operating systems	Windows XP/2000
Temperature	40 – 120 deg F (5 – 50 deg C)

Physical

Height	3.5" (90 mm)
Width	5.0" (130 mm)
Length	9.5" (240 mm)
Weight	3.5 lb (1.6 kg)

+ 24 V Peripheral Port

Count	1
Voltage	24 V +/- 10%
Current	2.3 A (RMS)
Current (USB)	0.5 A (RMS)

+ 12 V Peripheral Ports

Count	5
Voltage	12 V +/- 10%
Current	1.5 A (RMS)
Current (USB)	0.5 A (RMS)

Power Requirements

Input	100 – 240VAC, 9A, 50 - 60 HZ
Output (Pass Through)	100 – 240VAC, 6 - 3A, 50 - 60Hz

U.S Terms and Conditions of Sale

These terms and conditions ("Agreement") apply to your purchase of computer systems and/or related products and/or services and support sold in the United States ("Product") by the Dell entity named on the invoice or acknowledgement ("Dell") provided to you. By accepting delivery of the Product, you accept and are bound to the terms and conditions of this Agreement. If you do not wish to be bound by this Agreement, you must notify Dell immediately and return your purchase pursuant to Dell's Total Satisfaction Return Policy. (See: <http://support.dell.com/ContactUs/ByPhone.aspx?c=us&l=en&s=gen> for our contact information.) If returned, Product(s) must remain in the boxes in which they were shipped. THIS AGREEMENT SHALL APPLY UNLESS (I) YOU HAVE A SEPARATE PURCHASE AGREEMENT WITH DELL, IN WHICH CASE THE SEPARATE AGREEMENT SHALL GOVERN; OR (II) OTHER DELL TERMS AND CONDITIONS APPLY TO THE TRANSACTION.

1 Other Documents.

This Agreement may NOT be altered, supplemented, or amended by the use of any other document(s) unless otherwise agreed to in a written agreement signed by both you and Dell. If you do not receive an invoice or acknowledgement in the mail, via e-mail, or with your Product, information about your purchase may be obtained at <https://support.dell.com/dellcare/Invoice.aspx> or by contacting your sales representative.

2 Payment Terms; Orders; Quotes; Interest.

Payment terms are within Dell's sole discretion, and, unless otherwise agreed to by Dell, payment must be made at the time of purchase. Payment for Product may be made by credit card, wire transfer, or some other prearranged payment method. Dell may invoice parts of an order separately. Your order is subject to cancellation by Dell, at Dell's sole discretion. Unless you and Dell have agreed to a different discount, Dell's standard pricing policy for Dell™-branded systems, which include both hardware and services in one discounted price, allocates the discount off list price applicable to the service portion of the system to be equal to the overall calculated percentage discount off list price on the entire system. Dell is not responsible for pricing, typographical, or other errors, in any offer by Dell and reserves the right to cancel any orders resulting from such errors.

3 Shipping Charges; Taxes; Title; Risk of Loss.

Shipping and handling are additional unless otherwise expressly indicated at the time of sale. Loss or damage that occurs during shipping by a carrier selected by Dell is Dell's responsibility. Loss or damage that occurs during shipping by a carrier selected by you is your responsibility. You must notify Dell within 30 days of the date of your invoice or acknowledgement if you believe any part of your purchase is missing, wrong or damaged. Unless you provide Dell with a valid and correct tax exemption certificate applicable to your purchase of Product and the Product ship-to location, you are responsible for sales and other taxes associated with the order. Shipping dates are estimates only. Title to software will remain with the applicable licensor(s).

4 Warranties.

THE LIMITED WARRANTIES APPLICABLE TO DELL-BRANDED HARDWARE PRODUCT CAN BE FOUND AT <http://www.dell.com/policy/legal/warranty.htm> OR IN THE DOCUMENTATION DELL PROVIDES WITH THE PRODUCT. DELL MAKES NO WARRANTIES FOR SERVICE, SOFTWARE, OR NON-DELL BRANDED PRODUCT. SUCH PRODUCT IS PROVIDED BY DELL "AS IS." WARRANTY AND SERVICE FOR NON-DELL BRANDED PRODUCT, IF ANY, IS PROVIDED BY THE ORIGINAL MANUFACTURER, NOT BY DELL. DELL MAKES NO EXPRESS WARRANTIES EXCEPT THOSE STATED IN DELL'S APPLICABLE WARRANTY STATEMENT IN EFFECT ON THE DATE OF THE INVOICE, PACKING SLIP OR ACKNOWLEDGEMENT. WARRANTIES AND SERVICE WILL BE EFFECTIVE, AND DELL WILL BE OBLIGATED TO HONOR ANY SUCH WARRANTIES AND SERVICES, ONLY UPON DELL'S RECEIPT OF PAYMENT IN FULL FOR THE ITEM TO BE WARRANTED OR SERVICED.

5 Software.

All software is provided subject to the license agreement that is part of the software package and you agree that you will be bound by such license agreement.

6 Return Policies; Exchanges.

New and refurbished Product that you purchase directly from Dell (and not a third party) you may return or exchange only in accordance with Dell's return policy in effect on the date of the invoice or acknowledgement. Any returns or exchanges will be made in accordance with Dell's exchange policies in effect on the date of the return or exchange. You must contact us directly before you attempt to return Product to obtain a Return Material Authorization Number for you to include with your return. You must return Product to us in their original or equivalent packaging. You are responsible for risk of loss, shipping and handling fees for returning or exchanging Product. Additional fees may apply. Dell's return policy for Dell-branded Product can be found at: <http://www.dell.com/policy/legal/warranty.htm>. Non-Dell branded software and peripheral return policies can be found at: http://rcommerce.us.dell.com/rcomm/include/dw_policies.htm.

Refurbished Product return policies can be found at: http://www.dell.com/us/en/dfh/topics/segtopic_nav_info_002_info.htm. If you fail to follow the return or exchange instructions and policies provided by Dell, Dell is not responsible whatsoever for Product that is lost, damaged, modified or otherwise processed for disposal or resale. If you are returning all components in an order, you will be credited the full amount paid for the order. At Dell's discretion, credit for partial returns may be less than invoice or individual component prices due to bundled or promotional pricing.

7 Changed or Discontinued Product.

Dell's policy is one of ongoing update and revision. Dell may revise and discontinue Product at any time without notice to you and this may affect information saved in your online "cart." Dell will ship Product that has the functionality and performance of the Product ordered, but changes between what is shipped and what is described in a specification sheet or catalog are possible. Parts used in repairing or servicing Product may be new, equivalent-to-new, or reconditioned.

8 Service and Support.

Service offerings may vary from Product to Product. If you purchase optional services and support from Dell, Dell and/or your third-party service provider will provide such service and support to you in the United States in accordance with the terms and conditions located at http://www.dell.com/us/en/gen/services/service_service_contracts.htm or as mailed to you. You may contact Dell for more information, see <http://www1.us.dell.com/content/topics/segtopic.aspx/contact/contact?c=us&l=en&s=gen> for contact information. Dell and/or the third-party service provider may at their discretion, revise their general and optional service and support programs and the terms and conditions that govern them without prior notice to you. Dell has no obligation to provide service or support until Dell has received full payment for the Product or service/support contract you purchased. Dell is not obligated to provide service or support you purchase through a third party and not Dell

9 Limitation of Liability.

DELL DOES NOT ACCEPT LIABILITY BEYOND THE REMEDIES SET FORTH HEREIN, INCLUDING BUT NOT LIMITED TO ANY LIABILITY FOR PRODUCT NOT BEING AVAILABLE FOR USE, LOST PROFITS, LOSS OF BUSINESS OR FOR LOST OR CORRUPTED DATA OR SOFTWARE, OR THE PROVISION OF SERVICES AND SUPPORT. EXCEPT AS EXPRESSLY PROVIDED HEREIN, DELL WILL NOT BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR FOR ANY CLAIM BY ANY THIRD PARTY. YOU AGREE THAT FOR ANY LIABILITY RELATED TO THE PURCHASE OF PRODUCT, DELL IS NOT LIABLE OR RESPONSIBLE FOR ANY AMOUNT OF DAMAGES ABOVE THE AMOUNT INVOICED FOR THE APPLICABLE PRODUCT. NOTWITHSTANDING ANYTHING IN THIS AGREEMENT TO THE CONTRARY, THE REMEDIES SET FORTH IN THIS AGREEMENT SHALL APPLY EVEN IF SUCH REMEDIES FAIL THEIR ESSENTIAL PURPOSE. DELL IS NOT LIABLE TO YOU FOR WARRANTIES, SUPPORT, OR SERVICE MADE BY OR PURCHASED FROM A THIRD PARTY AND NOT

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10 Applicable Law; Not For Resale or Export.

You agree to comply with all applicable laws and regulations of the various states and of the United States. You agree and represent that you are buying only for your own internal use only, and not for resale or export. Dell has separate terms and conditions governing resale of Product by third parties and transactions outside the United States. Terms and conditions for resale are located at: <http://www.dell.com/policy/legal/termsofsale.htm>.

11 Governing Law.

THIS AGREEMENT AND ANY SALES THERE UNDER SHALL BE GOVERNED BY THE LAWS OF THE STATE OF TEXAS, WITHOUT REGARD TO CONFLICTS OF LAWS RULES.

12 Headings.

The section headings used herein are for convenience of reference only and do not form a part of these terms and conditions, and no construction or inference shall be derived there from.

13 Binding Arbitration.

ANY CLAIM, DISPUTE, OR CONTROVERSY (WHETHER IN CONTRACT, TORT, OR OTHERWISE, WHETHER PREEXISTING, PRESENT OR FUTURE, AND INCLUDING STATUTORY, COMMON LAW, INTENTIONAL TORT AND EQUITABLE CLAIMS) BETWEEN CUSTOMER AND DELL, its agents, employees, principals, successors, assigns, affiliates (collectively for purposes of this paragraph, "Dell") arising from or relating to this Agreement, its interpretation, or the breach, termination or validity thereof, the relationships which result from this Agreement (including, to the full extent permitted by applicable law, relationships with third parties who are not signatories to this Agreement), Dell's advertising, or any related purchase SHALL BE RESOLVED EXCLUSIVELY AND FINALLY BY BINDING ARBITRATION ADMINISTERED BY THE NATIONAL ARBITRATION FORUM (NAF) under its Code of Procedure then in effect (available via the Internet at <http://www.arb-forum.com>, or via telephone at 1-800-474-2371). The arbitration will be limited solely to the dispute or controversy between customer and Dell. NEITHER CUSTOMER NOR DELL SHALL BE ENTITLED TO JOIN OR CONSOLIDATE CLAIMS BY OR AGAINST OTHER CUSTOMERS, OR ARBITRATE ANY CLAIM AS A REPRESENTATIVE OR CLASS ACTION OR IN A PRIVATE ATTORNEY GENERAL CAPACITY. This transaction involves interstate commerce, and this provision shall be governed by the Federal Arbitration Act 9 U.S.C. sec. 1-16 (FAA). Any award of the arbitrator(s) shall be final and binding on each of the parties, and may be entered as a judgment in any court of competent jurisdiction. Dell will be responsible for paying any arbitration filing fees and fees required to obtain a hearing to the extent such fees exceed the amount of the filing fee for initiating a claim in the court of general jurisdiction in the state in which you reside. Each party shall pay for its own costs and attorneys' fees, if any. However, if any party prevails on a statutory claim that affords the prevailing party attorneys' fees, or if there is a written agreement providing for fees, the Arbitrator may award reasonable fees to the prevailing party, under the standards for fee shifting provided by law. Information may be obtained and claims may be filed with the NAF at P.O. Box 50191, Minneapolis, MN 55405. (REV 4/04)

Limited Warranties and Return Policy

Limited Warranty for Dell-Branded Hardware Products (U.S. Only)

Dell-branded hardware products purchased in the U.S. or Canada come with either a 90-day, 1-year, 2-year, 3-year, or 4-year limited warranty depending on the product purchased. To determine which warranty came with your hardware product(s), see your packing slip or invoice.

What is covered by this limited warranty?

This limited warranty covers defects in materials and workmanship in your—our end-user customer's—Dell-branded hardware products, including Dell-branded peripheral products.

What is not covered by this limited warranty?

This limited warranty does not cover:

- Software, including the operating system and software added to the Dell-branded hardware products through our factory-integration system, third-party software, or the reloading of software
- Non-Dell-branded and Solution Provider Direct products and accessories
- Problems that result from:
 - External causes such as accident, abuse, misuse, or problems with electrical power
 - Servicing not authorized by Dell
 - Usage that is not in accordance with product instructions
 - Failure to follow the product instructions or failure to perform preventive maintenance
 - Problems caused by using accessories, parts, or components not supplied by Dell
 - Products with missing or altered Service Tags or serial numbers
- Products for which Dell has not received payment

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE (OR JURISDICTION TO JURISDICTION). DELL'S RESPONSIBILITY FOR MALFUNCTIONS AND DEFECTS IN HARDWARE IS LIMITED TO REPAIR AND REPLACEMENT AS SET FORTH IN THIS WARRANTY STATEMENT. ALL EXPRESS AND IMPLIED WARRANTIES FOR THE PRODUCT, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN TIME TO THE TERM OF THE LIMITED WARRANTY PERIOD REFLECTED ON YOUR PACKING SLIP OR INVOICE. NO WARRANTIES, WHETHER EXPRESS OR IMPLIED, WILL APPLY AFTER THE LIMITED WARRANTY PERIOD HAS EXPIRED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THIS LIMITATION MAY NOT APPLY TO YOU.

WE DO NOT ACCEPT LIABILITY BEYOND THE REMEDIES PROVIDED FOR IN THIS LIMITED WARRANTY OR FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, ANY LIABILITY FOR THIRD-PARTY CLAIMS AGAINST YOU FOR DAMAGES, FOR PRODUCTS NOT BEING AVAILABLE FOR USE, OR FOR LOST DATA OR LOST SOFTWARE. OUR LIABILITY WILL BE NO MORE THAN THE AMOUNT YOU PAID FOR THE PRODUCT THAT IS THE SUBJECT OF A CLAIM. THIS IS THE MAXIMUM AMOUNT FOR WHICH WE ARE RESPONSIBLE.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

How long does this limited warranty last?

This limited warranty lasts for the time period indicated on your packing slip or invoice, except for the following Dell-branded hardware:

- Portable computer batteries carry a 1-year limited warranty.
- Projector lamps carry a 90-day limited warranty.
- Memory carries a lifetime limited warranty.
- Monitors carry the longer of either a 3-year limited warranty or the remainder of the warranty for the Dell computer to which the monitor will be connected.
- PDAs, MP3 players, earphones, remote inline controls, and AC adapters carry a 1-year limited warranty.
- Other add-on hardware carries the longer of either a 1-year limited warranty for new parts and a 90-day limited warranty for reconditioned parts or, for both new and reconditioned parts, the remainder of the warranty for the Dell computer on which such parts are installed.

The limited warranty on all Dell-branded products begins on the date of the packing slip or invoice. The warranty period is not extended if we repair or replace a warranted product or any parts. Dell may change the availability of limited warranties, at its discretion, but any changes will not be retroactive.

What do I do if I need warranty service?

Before the warranty expires, please call us at the relevant number listed in the following table. Please also have your Dell Service Tag or order number available.

Web Support	support.dell.com/ContactUs/ContactUsHome.aspx?c=us&l=en&s=gen
Individual Home Consumers:	U.S. Only
Technical Support	1-800-624-9896
Customer Service	1-800-624-9897
Individual Home Consumers who purchased through an Employee Purchase Program:	
Technical Support and Customer Service	1-800-641-0868
Home and Small Business Commercial Customers:	
Technical Support and Customer Service	1-800-264-7778
Medium, Large, or Global Commercial Customers, Healthcare Customers, and Value-Added Resellers (VARs):	
Technical Support and Customer Service	1-800-624-9896
Government and Education Customers:	
Technical Support and Customer Service	1-800-624-9896
Dell-Branded Memory	1-888-363-5150

What will Dell do?

During the 90 days of the 90-day limited warranty and the first year of all other limited warranties: During the 90 days of the 90-day limited warranty and the first year of all other limited warranties, we will repair any Dell-branded hardware products returned to us that prove to be defective in materials or workmanship. If we are not able to repair the product, we will replace it with a comparable product that is new or refurbished.

When you contact us, we will issue a Return Material Authorization Number for you to include with your return. You must return the products to us in their original or equivalent packaging, prepay shipping charges, and insure the shipment or accept the risk if the product is lost or damaged in shipment. We will return the repaired or replacement products to you. We will pay to ship the repaired or replaced products to you if you use an address in the United States (excluding Puerto Rico and U.S. possessions and territories). Otherwise, we will ship the product to you freight collect.

If we determine that the product is not covered under this warranty, we will notify you and inform you of service alternatives that are available to you on a fee basis.

NOTE: Before you ship the product(s) to us, make sure to back up the data on the hard drive(s) and any other storage device(s) in the product(s). Remove any confidential, proprietary, or personal information and removable media such as floppy disks, CDs, or PC Cards. We are not responsible for any of your confidential, proprietary, or personal information; lost or corrupted data; or damaged or lost removable media.

During the remaining years: For the remaining period of the limited warranty, we will replace any defective part with new or refurbished parts, if we agree that it needs to be replaced. When you contact us, we will require a valid credit card number at the time you request a replacement part, but we will not charge you for the replacement part as long as you return the original part to us within 30 days after we ship the replacement part to you. If we do not receive the original part within 30 days, we will charge to your credit card the then-current standard price for that part.

We will pay to ship the part to you if you use an address in the United States (excluding Puerto Rico and U.S. possessions and territories). Otherwise, we will ship the part freight collect. We will also include a prepaid shipping container with each replacement part for your use in returning the replaced part to us.

NOTE: Before you replace parts, make sure to back up the data on the hard drive(s) and any other storage device(s) in the product(s). We are not responsible for lost or corrupted data.

What if I purchased a service contract?

If your service contract is with Dell, service will be provided to you under the terms of the service agreement. Please refer to that contract for details on how to obtain service.

If you purchased through us a service contract with one of our third-party service providers, please refer to that contract for details on how to obtain service.

How will you fix my product?

We use new and refurbished parts made by various manufacturers in performing warranty repairs and in building replacement parts and systems. Refurbished parts and systems are parts or systems that have been returned to Dell, some of which were never used by a customer. All parts and systems are inspected and tested for quality. Replacement parts and systems are covered for the remaining period of the limited warranty for the product you bought. Dell owns all parts removed from repaired products.

May I transfer the limited warranty?

Limited warranties on systems may be transferred if the current owner transfers ownership of the system and records the transfer with us. The limited warranty on Dell-branded memory may not be transferred. You may record your transfer by going to Dell's website:

- If you are an Individual Home Consumer, go to www.dell.com/us/en/dhs/topics/sbtopic_015_ccare.htm
- If you are a Home Office, Small, Medium, Large, or Global Commercial Customer, go to www.dell.com/us/en/biz/topics/sbtopic_ccare_nav_015_ccare.htm
- If you are a Government, Education, or Healthcare Customer, or an Individual Home Consumer who purchased through an Employee Purchase Program, go to www.dell.com/us/en/pub/topics/sbtopic_015_ccare.htm

If you do not have Internet access, call your customer care representative or call 1-800-624-9897.

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The United States Federal Communications Commission (FCC) has specified that the following notice be brought to the attention of users of this product:

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may 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 of 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 the 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.

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Use of shielded interface cables is required to comply with the Class A limits in Part 15 of the FCC rules. Use only shielded cables for connecting devices to any Dell™ device to reduce the possibility of interference with radio communications services. Using shielded cables ensures that you maintain the appropriate Electromagnetic Compatibility classification for the intended environment. For parallel printers, a cable is available from Dell™. If you prefer, you can order a cable from Dell™ on the World Wide Web at www.dell.com/supplies.

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