COMPAQ

Technical Guide

Contents

Compaq Rack 9000 and 10000 Support of Third Party Equipment

Abstract: This document discusses the benefit of Compaq Rack Systems with Third-Party support. Compaq Rack Systems combine next-generation structural integrity and ease of use capabilities to deliver industry-leading performance.

Compaq Rack systems provides improved flexibility when creating a rack environment, allowing use of Third-Party systems such as:

- Sun

- Hewlett Packard

- Dell

- IBM

A complete list of the Third-Party servers supported by Compaq is given in Table 1 on page 7.

Notice

Application

9000 Series Rack family   10000 Series Rack family

Compaq Universal Racks

Ideal for onsite assembly of rack mounted Compaq ProLiant, Alpha and Tandem servers, workstations, networking and storage products, the Compaq 9000 and 10000 series of cabinets complement and protect your customer's investment in technology. Specifically designed to ensure outstanding performance and seamless integration throughout the entire enterprise, the Compaq solution could easily be the last family of racks that your customers ever have to think about purchasing.

Model and Shipping Options

All of the racks in the 9000 Series are available in opal with a depth of 900mm/35.4" with industry standard 19" mounting rails.

- **9142** - 600mm/23.6" wide, 42U tall available to ship on a standard pallet, a shock pallet or crated.

- **9136** - 600mm/23.6" wide, 36U tall available to ship on a standard pallet, a shock pallet or crated.

- **9122** - 600mm/23.6" wide, 22U tall available to ship on a standard pallet, a shock pallet or crated.

- **9842** – 800mm/31.5" wide, 42U tall available on a standard pallet only. The Rack 9842 may to too wide for some standard door ways.

All of the racks in the 10000 Series are available in graphite with a depth of 1000mm/39.37" with industry standard 19" mounting rails.

- **10647** - 600mm/23.6" wide, 47U tall available to ship on a standard pallet or crated.

- **10642** - 600mm/23.6" wide, 42U tall available to ship on a standard pallet, a shock pallet or crated.

- **10636** - 600mm/23.6" wide, 36U tall available to ship on a standard pallet, a shock pallet or crated.

- **10622** - 600mm/23.6" wide, 22U tall available to ship on a standard pallet, a shock pallet or crated.

- **10842** – 800mm/31.5" wide, 42U tall available on a standard pallet in North America and standard pallet and shock pallet in EMEA. The Rack 10842 may to too wide for some standard door ways.

9000 and 10000 Series Rack Comparison

Model	U Height	Width	Depth	Dynamic Load	Static Load	Shipping Options	Color
9122	22U	600mm / 23.62 in	900mm / 35.43 in	450 lbs / 204.12 kg	1800 lbs. / 816.47 kg	pallet (-B21) shock pallet (-B22) crate (-B23)	opal
9136	36U	600mm / 23.62 in	900mm / 35.43 in	1400 lbs / 635.03 kg	1800 lbs. / 816.47 kg	pallet (-B21) shock pallet (-B22) crate (-B23)	opal
9142	42U	600mm / 23.62 in	900mm / 35.43 in	1450 lbs / 657.71 kg	1800 lbs. / 816.47 kg	pallet (-B21) shock pallet (-B22) crate (-B23)	opal
9842	42U	800mm / 31.49 in	900mm / 35.43 in	CAN NOT SHIP WITH EQUIPMENT INSTALLED	1100 lbs. / 498.95 kg	pallet (-B21)	opal
10622	22U	600mm / 23.62 in	1000mm / 39.37 in	1045 lbs / 474.00 kg	2000 lbs / 907.18 kg	pallet (-B21) shock pallet (-B22) crate (-B23)	graphite metallic
10636	36U	600mm / 23.62 in	1000mm / 39.37 in	1520 lbs / 689.46 kg	2000 lbs / 907.18 kg	pallet (-B21) shock pallet (-B22) crate (-B23)	graphite metallic
10642	42U	600mm / 23.62 in	1000mm / 39.37 in	2000 lbs / 907.18 kg	2000 lbs / 907.18 kg	pallet (-B21) shock pallet (-B22) crate (-B23)	graphite metallic
10647	47U	600mm / 23.62 in	1000mm / 39.37 in	CAN NOT SHIP WITH EQUIPMENT INSTALLED*	2000 lbs / 907.18 kg	pallet (-B21) crate (-B23)	graphite metallic
10842	42U	800mm/ 31.49 in	1000mm / 39.37 in	1000 lbs. / 453.59 kg	2000 lbs / 907.18 kg	pallet (-B21) shock (-B22)**	graphite metallic

*Note: Due to safety and stability concerns the 10647 rack is not certified to be shipped with equipment installed.
** Available in EMEA only.

Dynamic Loading Capacity - the maximum weight the rack can support while being shipped or moved with equipment installed.

Static Loading Capacity - the maximum weight that the empty rack can support after it has been properly leveled and installed (i.e. fitted with stabilizers or secured to other equipment).

Standard Rack Features

- Fully perforated front and rear doors - 65% open

- Accommodates all Compaq ProLiant, Alpha servers, storage and rack option products (monitors, keyboards, power products, etc) as well as select third party equipment

- Powerful Three Year Limited Warranty

- Locking front and rear doors

- Unique frame and rail design

- Design allows for mounting of PDUs or switchboxes in zero mounting space on sides of rails

Rack Options

Compaq delivers innovative racks that make it easy to centralize, protect, organize, and access customer hardware for servicing and upgrading. The racks are flexible, secure, and designed to meet industry standards.

For a complete list of Compaq Rack Options and Accessories, refer to the main rack page at http://www.compaq.com/racks or http://www.compaq.com/rackoptions

For a complete list of Compaq Power Products and Accessories, refer to the main power page at http://www.Compaq.com/ups

For information on Compaq servers, refer to http://www.compaq.com/servers

To ensure a safe and compliant system and reduce the risk of damaging the equipment or voiding the warranty, the final system integrator is responsible for installing all equipment in accordance with Compaq's installation instructions and configuration guidelines. Failure to due so could produce a system that may not comply with regulatory compliance requirements and/or violates the system's environmental specifications. In the event that the customer needs a solution that is fully certified by third party such as Underwriter's Laboratories, Compaq CustomSystems & Solutions may be reached at http://www.compaq.com/solutions/customsystems

Introduction

In the expanding fields of Internet Service Providers (ISP) and Application Service Providers (ASP), flexibility and growth are the key factors to success. The Compaq racks provide third party support to allow customers to mount virtually any type of rack mount equipment in the same rack. Now customers have the choice of a superior rack that supports not only Compaq products, but also other system vendors such as Sun Microsystems, Hewlett Packard, Dell Computer Corporation, and IBM.

Industry

As ISPs increase their client-base and their services, there are several products available in the market that will accommodate ASP needs. While many system providers offer racks to the ASP market that supports their own products, Compaq provides support for Compaq and other system vendors as well. With such a large selection of products available, Compaq is the leader in providing a system that accommodates the system choice of ISPs

Customer

Customers purchase a variety of equipment from various vendors to fulfill their data center requirements. By providing a quality rack system that supports many different components, Compaq rack customers will be able to mount equipment from multiple vendors, including:

- All Compaq equipment including ProLiant, Alpha, Tandem and storage products
- Sun
- Hewlett Packard
- Dell
- IBM

Third-Party Rack Mounting Kit

Based on feedback from customers and IT managers, the following equipment is a sampling of the most desired systems in data center environments. Support for the installation of this equipment in the rack may include installation white papers and/or specific Compaq rail kits.

Table 1. Supported Third-Party systems

Sun Microsystems	Hewlett Packard	Dell	IBM
220R	Net Server LT6000R	Power Edge 8450	Netfinity 4000R
420R	Net Server LXr 8000	Power Edge 6350	Netfinity 8500R
Ultra2	Net Server LXr 8500	Power Edge 2450	
Ultra 5	Net Server LH6000R		
Ultra10	Net Server LH3r		
E250	Net Server LPr		
E450	SureStore 3Uk and 2Uk Rack Kit		
E3500			
E4000			

Table 2. Supported Third-Party systems and Required Kits

All of the Sun servers listed below with the exception of the 220R, 420R and E250 rack mount version require a rail kit to be ordered in order to install the product in the rack.

Model	Cage Nuts	Extension Kit for Rack 9000 Series	Rail Kit	Optional Kits	Notes
Sun Microsystems					
220R	X				
420R	X				
Ultra2			X		Compaq provides the Sun Rail Kit for Ultra 2, 5, 10 to allow for efficient installation of the server in the racks. Compaq part number 225198-001
Ultra5			X		Compaq provides the Sun Rail Kit for Ultra 2, 5, 10 to allow for efficient installation of the server in the racks. Compaq part number 225198-001
Ultra10			X		Compaq provides the Sun Rail Kit for Ultra 2, 5, 10 to allow for efficient installation of the server in the racks. Compaq part number 225198-001
E250	X				The E250 is shipped as both a tower unit and rack mount. No Shark Kit is required for the rack ready version.
E450	X		X		Sun recommends the use of Shark Rack Kit part number E450-r19-h to install the server in the rack.
E3500	X		X		Sun recommends the use of Shark Rack Kit part number E3000-r19-h to install the server in the rack.
E4000	X		X		Sun recommends the use of Shark Rack Kit part number E4000-r19-h to install the server in the rack.

Note: Cage Nuts are available with spare part number 232276-B21.

Only two of the Hewlett Packard servers listed below require an additional kit to be ordered in order to install the product in the rack.

Model	Cage Nuts	Extension Kit for Rack 9000 Series	Rail Kit	Optional Kits	Notes
Hewlett Packard					
LT6000R					No additional kits required
LPr					No additional kits required
LH6000R					No additional kits required
SureStore 3Uk Rack Kit			X		Installation requires the use of Compaq Adjustable Rails - 332558-B21. 14" depth used. Can mount components behind.
SureStore 2Uk Rack Kit					Installation requires the use of Compaq Adjustable Rails - 332558-B21. 14" depth used. Can mount components behind.
LXr 8500				X	Requires the use of the "Compaq Rack-Optimized Kit" from HP

None of the Dell servers listed below require an additional kit.

Model	Cage Nuts	Extension Kit for Rack 9000 Series	Rail Kit	Optional Kits	Notes
Dell					
PowerEdge 2450					No additional kits required
PowerEdge 6450					No additional kits required
PowerEdge 8450					No additional kits required

Only one of the two IBM servers listed below require an additional kit to be ordered in order to install the product in the rack.

Model	Cage Nuts	Extension Kit for Rack 9000 Series	Rail Kit	Optional Kits	Notes
IBM					
Netfinity 4000R					No additional kits required
Netfinity 8500R		X			Compaq part numbers for the 9000 series extension kit are as follows: 36U rack 218216-B21 42U rack 120679-B21

Benefits

Compaq universal racks are ready to support the immediate needs of the customer. With an Engineering Industries Association (EIA) 19" rails for rack mounting, the Compaq 9000 and 1000 Series Racks will support offerings from Sun, HP, Dell and IBM. By using the Compaq rack, customers have the flexibility to standardize the look of their data centers while still having the ability to use any equipment they choose.

With Compaq 9000 and 10000 Series Racks, new technology components and servers can be brought online without potentially eliminating the customers' systems currently in use. The only requirement is that the components must fit the 19" rails within mounting rails and not impede upon the space required by the zero-U mounted devices such as the Power Distribution Units (PDUs).

Compaq 9000 and 10000 Series Racks provide customers with the power to sensibly maximize space utility while protecting and simplifying network management.

Contact Us

For comprehensive online support, refer to:
http://www.compaq.com/

For international information, refer to:
http://www.compaq.com/corporate/overview/world_offices.html

For a list of Compaq products, refer to:
http://www.compaq.com/showroom/

For a list of Compaq rack options and accessories, refer to:
http://www.compaq.com/rackoptions

For a list of Compaq power products and accessories, refer to:
http://www.compaq.com/ups

Table 3. Departments and Telephone Numbers for the United States and Canada

Department	Telephone Number(s)
Consumer Direct	1-800-888-0220
Compaq DirectPlus	1-800-888-5858 (U.S.)
Compaq Partner Direct	1-800-888-5874
Compaq Reseller Locator	1-800-345-1518 (Option 3)
Compaq Canada Reseller Locator and Product Literature	1-800-567-1616
Diskette Fulfillment (backup diskettes for preinstalled software)	1-800-952-7689 (U.S.) 1-800-349-8498 (Canada)
Compaq Product Information	1-800-345-1518 (U.S.) 1-800-567-1616 (Canada)
Compaq Technical Support	1-800-OK-COMPAQ (U.S. and Canada) 1-800-652-6672