# QuickSpecs

## Overview

# **HPE G2 Advanced Series Racks**

HPE G2 Advanced Series Racks are designed for low-to-medium density IT configurations deployed in a diverse set of environments – from the data closet to the data center. Following EIA-310 specifications for 19-inch racks, G2 Advanced Racks are designed specifically to support a wide range of HPE IT equipment (servers, storage, and networking), as well as the entire portfolio HPE Rack and Power Infrastructure solutions (PDU, UPS and KVM).

All HPE G2 Advanced Series Racks are supported with a 10 year limited warranty that provides either repair or complete replacement of the rack. Offering this industry-leading warranty requires a highly reliable and durable design that includes features such as a fully-wielded, roll-form rack design, heavy-gauge rails, and heavy-duty castors that can support a static load of up to 3000 lbs. Additionally, select shock pallet models include packaging specifically designed to support the shipment of pre-configured racks with up to 2,250 lbs. of It equipment.

The G2 Advanced Series Rack portfolio includes a wide range of rack models covering a variety of heights, widths, and depths. To simplify purchasing and installation, all rack models include locking side panels and baying kits. Additionally, HPE offers a large portfolio of rack accessories that support airflow management, cable management, and added rack stability.





## Overview



Р9К07А

P9K09A

# **Rack Models**

## HPE G2 Advanced Series Rack Models

Review the following details to better understand the different rack models that are offered in the HPE G2 Advanced Series rack portfolio.

Pallet Rack	Standard pallet and packaging for racks that will be configured on-site				
Shock Pallet	Pallet and packaging designed to support racks that will be shipped directly to the data center fully configured				
	<ul> <li>Can support up to 2,250 lbs. of IT equipment during shipment</li> </ul>				
	<ul> <li>Packaging includes integrated ramp to simplify rack deployment</li> </ul>				
	<ul> <li>Must be selected when requesting HPE Factory Express Services</li> </ul>				
Network Racks	Designed to support dense Networking equipment configurations, or the integration of Networking, Server, and Storage equipment into a single industry standard 19" rack.				
	• Front and rear vertical EIA rails are moved back 75mm to facilitate front to rear cabling				
	<ul> <li>Include additional bristle covered cable access slots in the front and top of the rack to prevent the mixing of hot and cold air and to allow pass-through for large cable connectors and bundles</li> </ul>				

### 600mm Wide G2 Advanced Series Rack Models

HPE 22U 600mmx1075mm G2 Kitted Advanced Pallet Rack with Side Panels and Baying	P9K03A
HPE 22U 600mmx1075mm G2 Kitted Advanced Shock Rack with Side Panels and Baying	Р9К04А
HPE 36U 600mmx1075mm G2 Kitted Advanced Pallet Rack with Side Panels and Baying	Р9К05А
HPE 36U 600mmx1075mm G2 Kitted Advanced Shock Rack with Side Panels and Baying	P9K06A
HPE 42U 600mmx1075mm G2 Kitted Advanced Pallet Rack with Side Panels and Baying	P9K07A
HPE 42U 600mmx1075mm G2 Kitted Advanced Shock Rack with Side Panels and Baying	P9K08A
HPE 42U 600mmx1200mm G2 Kitted Advanced Pallet Rack with Side Panels and Baying	Р9К09А
HPE 42U 600mmx1200mm G2 Kitted Advanced Shock Rack with Side Panels and Baying	P9K10A
HPE 48U 600mmx1075mm G2 Kitted Advanced Pallet Rack with Side Panels and Baying	Р9К19А
800mm Wide G2 Advanced Series Rack Models	
HPE 42U 800mmx1075mm G2 Kitted Advanced Pallet Rack with Side Panels and Baying	P9K11A
HPE 42U 800mmx1075mm G2 Kitted Advanced Shock Rack with Side Panels and Baying	P9K12A
HPE 42U 800mmx1200mm G2 Kitted Advanced Pallet Rack with Side Panels and Baying	P9K15A
HPE 42U 800mmx1200mm G2 Kitted Advanced Shock Rack with Side Panels and Baying	P9K16A
HPE 48U 800mmx1075mm G2 Kitted Advanced Pallet Rack with Side Panels and Baying	P9K21A
G2 Advanced Series Network Rack Models	
HPE 42U 800mmx1075mm G2 Kitted Advanced Network Pallet Rack	P9K17A
HPE 42U 800mmx1200mm G2 Kitted Advanced Shock Network Rack with Side Panels and Baying	P9K18A

# Standard Features

What's Included With Rack?	Baying kit	f 2-piece locking side panels ncluding key to front and rear doors) entation
Compatibility	Designed for H	HPE rack and power infrastructure solutions
Reliability/ Durability	<ul> <li>Proven frame d 3000 lbs. static</li> <li>Highest levels of a shock pallet r</li> <li>Fully wielded, ro</li> </ul>	warranty - repair or replace for the life of the rack esign, heavy-gauge mounting rails, and heavy-duty casters can support up to loads and up to 2250 lbs. dynamic (rolling) loads of ship-load testing to ensure a dynamic load of up to 2250 lbs. when selecting ack option oll form rack frame steel side bracing
Usability/ Management	<ul> <li>Side panels and</li> <li>Multiple 800mr</li> <li>Includes either height PDU Mo</li> <li>80% front-door</li> <li>Removal and repass-through o</li> <li>Enhanced front</li> <li>Redesigned box</li> <li>Side EIA mount</li> <li>Flush-mounted</li> <li>Quick release fr</li> <li>Wide array of rasafety/security</li> <li>Eyebolt support</li> </ul>	st range of enclosure sizes with rack depths of 42-inches or greater I baying kit included with all G2 Advanced Series rack models In wide rack models including Network rack models available 2 (1075mm models) or 4 (1200mm models) integrated and adjustable full- unting Trays in each rack to support PDU and cable management accessories airflow perforation eversible rack canopy with pre-installed brush strips capable of supporting easy f large cables and connectors and rear door cabling channels thom area designed for unobstructed access to data center floor ing rails designed to support front-to-back cabling , locking 2-piece side panels ont and rear doors ack accessories for airflow management, cable management, stabilization, and t integrated into enclosure frame ervices through HPE Factory Express
Safety/Security	<ul><li>third-party elect</li><li>Flush-mounted</li><li>Optional electri</li></ul>	rd lock panel on the front and rear doors capable of supporting a wide range of tronic locking/security solutions side panels that support rack baying when installed cal grounding covering frame and components ss for front doors, rear doors, and side panels
Industry Standards Compliance	EIA UL/CES Certification WEEE RoHS compliant TAA compliant	Type A cabinet per section 4.1.1 Yes Yes Yes Compliant for all rack models sold in North America

Service & Support	
Warranty / Service Coverage	HPE G2 Advanced Racks are covered by a global 10 warranty and supported by HPE Services and a worldwide network of HPE Authorized Channel Partners resellers. Hardware replacement and repair is available for ten years from date of purchase. Normal HPE warranty exclusions apply.
	Additional information regarding worldwide limited warranty and technical support is available at: <u>http://h17007.www1.hpe.com/us/en/enterprise/servers/warranty/index.aspx#.V-</u> 10xE3rvbq
HPE Support Services	<b>HPE Services</b> To help streamline implementation and enhance ongoing support of rack solutions, Hewlett Packard Enterprise provides cost-effective service options with resources and specialized expertise to complement customers' in-house capabilities.
	<b>Installation and Startup services</b> Take advantage of complete installation and implementation support-including global rollout capabilities-to get rack solutions up-and-running rapidly, with minimal business disruption.
	Server Option Hardware Support Cover rack options with a single convenient service package. HPE Support Services for rack- mounted ProLiant DL servers and storage products provide support for all HPE-branded rack hardware options that are qualified for inclusion with the server at the time of or after purchase. This covers all rack and power infrastructure options including power distribution units (PDU), UPS options up to 12kVA (not including battery), rack and rack accessories, and KVM consoles and switches. All of these products are covered at the same service level and for the same period as the server at no additional cost.
	HPE Support Services help increase uptime and productivity with rapid response on a 24x7 or 13x5 basis. Both options feature same-day, 4-hour onsite assistance when service issues cannot be resolved remotely. And both help enhance the return on server investment with proven HPE

Services expertise and consistent support levels across geographically dispersed sites.

## Service & Support

## **Related Options**

Hewlett Packard Enterprise offers a full line of accessories and options that can be added to HPE Racks allowing you to customize each rack to fit your IT requirements. HPE Rack accessories include upgrades such as side panels, baying kits, cable management kits, drawers, shelving, and filler panels. To build a complete rack and power infrastructure for your IT environment, Hewlett Packard Enterprise also offers a full line of options that include power distribution units (PDU), uninterruptible power systems (UPS), and KVM (keyboard, video, mouse) consoles and switches. See HPE Rack and Power Infrastructure for more complete information at: http://www.hp.com/go/rackandpower.

**NOTE:** 0D1 may appear after the above selected part numbers on yours sales order if factory integration is indicated.

Rack Baying Kits	<ul> <li>HPE G2 Rack Baying Kit</li> <li>NOTE: This Baying Kit is used to connect HPE G2 racks of the same U height and depth together and includes the following components: (4) 24-inch baying brackets, (4) 600mm baying brackets, and T-30 Torx screws.</li> <li>HPE 1075-1200mm Offset Baying Kit</li> <li>NOTE: This Offset Baying Kit is used to connect 42U 1075mm to 42U 1200mm racks. Includes (3) 24-inch baying brackets, (3) 600mm baying brackets, and T-30 Torx screws.</li> <li>HPE 1M-1075mm Offset Baying Kit</li> <li>NOTE: This Offset Baying Kit is used to connect 42U 1075mm racks to 42U 1000mm depth racks. Includes (3) 24-inch baying brackets, (3) 600mm baying brackets, (3) 600mm baying brackets, baying Kit is used to connect 42U 1075mm racks to 42U 1000mm depth racks. Includes (3) 24-inch baying brackets, (3) 600mm baying brackets, (3) 600mm baying brackets, and T-30 Torx screws.</li> </ul>	P9L12A BW941A BW952A
Airflow Optimization	HPE Air Flow Optimization Kit <b>NOTE:</b> The Airflow Optimization kit seals air gaps inside the rack, in between bayed racks, and the clearance from the floor to the rack to prevent hot and cold air from mixing thus optimizing the temperature at which the chilled air enters the racked servers. <b>NOTE:</b> When configuring racks through Factory Express, a Rack Optimization kit will automatically ship with the rack. This kit is recommended for all other bayed rack configurations also.	BW930A
Sidewall Panel Kits	HPE G2 Rack 42U 1075mm Side Panel Kit HPE G2 Rack 42U 1200mm Side Panel Kit HPE G2 Rack 48U 1075mm Side Panel Kit <b>NOTE:</b> HPE G2 Rack Side Panel Kits are locking, 2-piece panels that provide coverage for both sides of the rack. <b>NOTE:</b> All HPE G2 Advanced Series Racks ship with a complete set of side panels.	P9L15A P9L16A P9L17A
Rack Stabilization Kits	HPE 600mm Rack Stabilizer Kit HPE 600mm Heavy Duty V2 Stabilizer Kit HPE 800mm Rack Stabilizer Kit <b>NOTE:</b> Anti-tip stabilizer kits provide stability and support when equipment is installed, removed or accessed within the rack. Heavy Duty stabilizer kits should be used when a single racked component exceeds 200 lbs. HP 9000 and 10000 Rack Ballast Kit <b>NOTE:</b> The Ballast Kit is designed to provide additional stability and support when used with the Stabilizer Kit. It is typically used when very heavy equipment is routinely installed, removed or accessed within the rack. Compatible with HPE Advanced and Enterprise Series racks.	BW932A BW961A BW933A 120672-B21
Tie Down Kit	HP 11K G2 Rack Tie Down Kit HP 800mm Rack Tie Down Kit	AF076A BW927A

<b>Related Options</b>		
	<b>NOTE:</b> The Rack Tie Down Kit is used to secure the rack to the datacenter floor. Part number AF076A is used for 600mm wide racks only.	
Universal 1U Filler Panels	HP 1U 10-pack Black Universal Filler Panel HP 1U 100-pack Black Universal Filler Panel <b>NOTE:</b> Blanking panels are made from high grade molded plastic, and are designed to be installed without tools. The use of blanking panels is recommended to ensure proper airflow.	BW928A BW929A
Rack Shelves	HP 10000 Rack 1U Monitor Utility Shelf <b>NOTE:</b> This is a 1U fixed shelf that can be mounted at any height to place a monitor or other component within the rack. The shelf has a maximum weight capacity of 150 lbs. (68kg) and ships with bezels for both a 15" and 17" monitor.	253449-B21
Adjustable Rails	HP 100kg Sliding Shelf Depth Adjustable Fixed Rail Kit <b>NOTE:</b> This kit contains two depth adjustable rails that allow Hewlett Packard Enterprise servers, storage, UPSs and other products to be mounted in HPE or third-party racks. Maximum weight capacity is 300 lbs. (136 kg).	234672-B21 332558-B21
Rack Light Kit	HPE Rack LED Light Kit <b>NOTE:</b> The Rack Light Kit is mounted under the roof of the rack and is used to illuminate the rear section of the rack. The light is turned on and off with the opening and closing of the rear doors.	BW939A
Locking Drawer	HP 2U Universal Locking Drawer <b>NOTE:</b> This rack accessory mounts on HPE Advanced and Enterprise Series racks with sliding rails and is used to store CD's, instruction manuals, tools, and any other items that are frequently used at the rack. Drawer includes lock.	361591-B21
Cable Management Kits	HPE Quarter Turn Hook and Loop 10 Pack Kit HPE Quarter Turn Hook and Loop 100 Pack Kit <b>NOTE:</b> Quarter turn hook and loop straps help attach cables and other devices to the accessory bracket in the rear of the rack without tools. Compaq Cable Management D Rings <b>NOTE:</b> This kit consists of 10 "D" rings that can be used for cable management. HP Rack Cable Management Velcro Clips HP Rack Cable Management Kit <b>NOTE:</b> The HPE Rack Cable Management Kit includes a 1U and 2U front cable entry panel with brush inserts, 2x crossover cable brackets, 10x D-rings, 10x hook and loop straps (8 inch), 10x hook and loop straps (10 inch), and mounting hardware.	BW963A BW964A 168233-B21 379820-B21 AF099A
Rack Top Cable Trays	<ul> <li>s HP 600 Wide Rack Top Cable Tray</li> <li>HP 800 Wide Rack Top Cable Tray</li> <li>HP Rack Top Cable Mgmt Transfer Tray</li> <li>NOTE: HPE Rack Top Cable Tray connects two aisles of racks with HPE Rack Top Cable Trays to run overhead cables.</li> </ul>	383982-B21 383983-B21 383984-B21
Rack Fan Kits	257413-B21 257414-B21	
Grounding Kit	HPE G2 Rack Grounding Kit	P9L11A

<b>Related Options</b>		
	<b>NOTE:</b> The Rack Grounding Kit can be used to reduce the level of electromagnetic emissions outside the rack. The Kit includes (3) 6" Grounding Straps, (3) 14.5" Grounding Straps, (6) 6" Grounding Straps w/connectors, (6) 14.5" Grounding Straps w/connectors.	
Hardware Kit	HPE Rack Hardware Kit <b>NOTE:</b> The HPE Rack Hardware Kit includes 24x M6 cage nuts, 24x M6x16 T25 screws, 10x 5mm thread clip nuts, 10x 6mm thread clip nuts, cage nut tool, and 5x Quarter turn hook and loop straps.	H6J85A
Rack Branding Kit	HPE Custom Door Branding Kit <b>NOTE:</b> Blank panel that allows you to customize the rack with rack location information, branding, or other description information.	BW935A
HPE Support Service	s HPE Install Rack and Rack Options Service	U2871E
HPE Factory Express Services	HPE Hardware Customization Service HPE 3rd Party Hardware Install Service HPE Customer Defined Rack Cable Labeling Service HPE Customer Furnished Equipment Handling Service HPE Custom Placement within Rack Service <b>NOTE:</b> HPE Factory Express offers a full line of services. For more information visit http://www.hp.com/go/factoryexpress	HA838A1 HA844A1 HA850A1 HA851A1 HA864A1

# **Technical Specifications**

Rackable/Useable Area		Tota	al Area		
Model	Height	Width	Depth	Total Cabinet Area	Shipping Dimensions
P9K03A	22U	600mm	1,075mm	23.54 x 44.3 x 43.64 in (59.78 x	50.79 x 47.24 x 27.95 in (129.00 x
				112.52 x 110.84 cm)	120.00 x 71.00 cm)
P9K04A	22U	600mm	1,075mm	23.54 x 44.3 x 43.64 in (59.78 x	59.49 x 50.87 x 35.43 in (151.00 x
				112.52 x 110.84 cm)	129.20 x 90.00 cm)
P9K05A	36U	600mm	1,075mm	23.5 x 42.72 x 68.66 in (59.78 x	84.17 x 47.24 x 27.95 in (213.80 x
				108.52 x 174.39 cm)	120.00 x 71.00 cm)
P9K06A	36U	600mm	1,075mm	23.5 x 42.72 x 68.66 in (59.78 x	85.35 x 50.87 x 35.43 in (216.80 x
				108.52 x 174.39 cm)	129.20 x 90.00 cm)
P9K07A	42U	600mm	1,075mm	23.54 x 44.3 x 78.97 in (59.78 x	84.17 x 47.24 x 27.95 in (213.80 x
				112.52 x 200.6 cm)	120.00 x 71.00 cm)
P9K08A	42U	600mm	1,075mm	23.54 x 44.3 x 78.97 in (59.78 x	85.35 x 50.87 x 35.43 in (216.80 x
				112.52 x 200.6 cm)	129.20 x 90.00 cm)
P9K09A	42U	600mm	1,200mm	23.54 x 49.61 x 78.97 in (59.78 x	84.17 x 54.92 x 27.95 in (218.80 x
				126.02 x 200.6 cm)	139.50 x 71.00 cm)
P9K10A	42U	600mm	1,200mm	23.54 x 49.61 x 78.97 in (59.78 x	85.35 x 57.87 x 35.43 in (216.80 x
				126.02 x 200.6 cm)	147.00 x 90.00 cm)
P9K19A	48U	600mm	1,075mm	23.54 x 43.63 x 90.39 in (59.78 x	96.46 x 47.24 x 27.95 in (245 x
				110.82 x 229.58 cm)	120.00 x 71.00 cm)
P9K11A	42U	800mm	1,075mm	31.38 x 43.63 x 78.98 in (79.7 x	84.17 x 54.84 x 27.95 in (213.79 x
				110.82 x 200.6 cm)	139.29 x 71.00 cm)
P9K12A	42U	800mm	1,075mm	31.38 x 43.63 x 78.98 in (79.7 x	85.35 x 57.87 x 35.43 in (216.79 x
				110.82 x 200.6 cm)	146.99 x 89.99 cm)
P9K17A	42U	800mm	1,075mm	31.38 x 43.63 x 78.98 in (79.7 x	84.17 x 54.84 x 27.95 in (213.79 x
				110.82 x 200.6 cm)	139.29 x 71.00 cm)
P9K15A	42U	800mm	1,200mm	31.38 x 49.61 x 78.97 in (79.7 x	84.17 x 54.84 x 35.83 in (218.80 x
				126.02 x 200.6 cm)	139.30 x 91.00 cm)
P9K18A	42U	800mm	1,200mm	31.38 x 49.61 x 78.98 in (79.7 x	85.35 x 57.87 x 43.43 in (216.80 x
				126.02 x 200.6 cm)	147.00 x 110.3 cm)
P9K16A	42U	800mm	1,200mm	31.38 x 49.61 x 78.97 in (79.7 x	85.35 x 57.87 x 43.43 in (216.80 x
				126.02 x 200.6 cm)	147.00 x 110.3 cm)
P9K21A	48U	800mm	1,075mm	31.38 x 43.63 x 90.39 in (79.7 x	97.64 x 57.87 x 35.43 in (248.01 x
				110.82 x 229.58 cm)	146.99 x 89.99 cm)

Understanding rack weights and loads

HPE G2 Advanced Series Racks are designed to support high capacity weight loads that include the weight of the rack and all the equipment installed. Weight loads are defined as:

- Shipping Weight rack including shipping packaging and materials.
- Static Load maximum loaded weight that a rack can support when stationary.
- Dynamic Load (Rolling) maximum loaded weight a rack can support when rolled.
- Dynamic Load (Shipping) maximum loaded weight a rack can support when shipped configured with IT equipment

HPE G2 Advanced Series Racks are rated for Static Loads of up to 3000 lbs. If you require a rack that can be shipped when fully loaded with equipment, please consider purchasing one of our Shock Pallet models that can support up to 2,250 lbs. during shipment.

Model	Rack	Rack	Shipping	Static	Dynamic (Rolling)	Dynamic (Shipping)
	Height	Weight (lbs)	Weight	Load	Load	Load*
			(lbs)			

## **Technical Specifications**

Р9К03А	22U	173.06	202.83	3,000 lbs. (1,361 kg)	2500 lb (1133.98 kg)	-
P9K04A	22U	173.06	338.41	3,000 lbs. (1,361 kg)	2500 lb (1133.98 kg)	2,250 lbs. (1021 kg)
Р9К05А	36U	255.74	285.50	3,000 lbs. (1,361 kg)	2500 lb (1133.98 kg)	-
Р9К06А	36U	255.74	421.08	3,000 lbs. (1,361 kg)	2500 lb (1133.98 kg)	2,250 lbs. (1021 kg)
Р9К07А	42U	281.10	310.90	3,000 lbs. (1,361 kg)	2500 lb (1133.98 kg)	-
P9K08A	42U	281.10	470.71	3,000 lbs. (1,361 kg)	2500 lb (1133.98 kg)	2,250 lbs. (1021 kg)
Р9К09А	42U	310.85	342.82	3,000 lbs. (1,361 kg)	2500 lb (1133.98 kg)	-
P9K10A	42U	310.85	514.81	3,000 lbs. (1,361 kg)	2500 lb (1133.98 kg)	2,250 lbs. (1021 kg)
P9K19A	48U	311.95	341.72	3,000 lbs. (1,361 kg)	2500 lb (1133.98 kg)	-
P9K11A	42U	346.35	379.42	3,000 lbs. (1,361 kg)	2500 lb (1133.98 kg)	-
P9K12A	42U	346.35	549.17	3,000 lbs. (1,361 kg)	2500 lb (1133.98 kg)	2,250 lbs. (1021 kg)
P9K17A	42U	346.35	379.42	3,000 lbs. (1,361 kg)	2500 lb (1133.98 kg)	-
P9K15A	42U	362.66	397.93	3,000 lbs. (1,361 kg)	2500 lb (1133.98 kg)	-
P9K18A	42U	346.35	580.92	3,000 lbs. (1,361 kg)	2500 lb (1133.98 kg)	2,250 lbs. (1021 kg)
P9K16A	42U	362.66	580.82	3,000 lbs. (1,361 kg)	2500 lb (1133.98 kg)	2,250 lbs. (1021 kg)
P9K21A	48U	363.76	396.83	3,000 lbs. (1,361 kg)	2500 lb (1133.98 kg)	-

Environment-friendly Products and Approach

End-of-life Management and Recycling Hewlett Packard Enterprise offers end-of-life product return, trade-in, and recycling programs, in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

### http://www8.hp.com/us/en/hpe/hpinformation/livingprogress/environmentalprogress/productrecycling.html#.V-IPA\_krKiM

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard Enterprise web site. These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

http://www8.hp.com/us/en/hpe/hpinformation/livingprogress/environmentalprogress/productrecycling.html#.V-IPA\_krKiM

## **Summary of Changes**

Date	Version History	Action	Description of Change
13-Jan-2017	From Version 1 to 2	Changed	Description for P9L17A was changed.
			Front left image was updated.
28-Nov-2016	Version 1	Added	New QuickSpecs



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