

DELL POWEREDGE 4220 AND 2420 RACKS



NEXT GENERATION RACK ENCLOSURES

The solid, versatile 42U Dell™ PowerEdge™ 4220 rack enclosure introduces important new power distribution, cooling and cabling options, and is designed for use in any environment from the data center, to a wiring closet or factory floor. A 24U version of the rack, Dell PowerEdge 2420, is also available for those environments that need less density for their equipment, such as small and mid-sized businesses.

NEW POWER BENEFITS

The new Dell 4220 rack provides more choices in the types and form factors of power distribution units (PDUs) that can be mounted in the rack. In addition to U-space PDU mounting, the rack also offers toolless PDU mounting at the rear of the rack. For mounting full-length PDUs alongside the rear door, the Dell 4220 rack provides the maximum distance between the back panels of the server to the PDU outlets, keeping the cables from impeding airflow.

BETTER AIRFLOW AND COOLING

The surface area of the doors on the Dell 4220 rack is 80% perforated to allow for better airflow—this is one of the highest perforation ratings among the leading data center racks sold worldwide. Finally, air dams have been included at the front of the rack frame to block hot air from traveling from the back to the front of the server, a common thermal issue with similar racks.

For hot-aisle/cold-aisle thermally efficient data center topologies, the footprint of the rack matches standard 2' floor tile placement, optimizing sub-floor cable and cold-air access without conflict.

EASIER CABLE MANAGEMENT

To provide support for deep server dimensions and to allow additional space for cable management, the total depth of the Dell 4220 and 2420 rack enclosures has been increased to 1070mm from 1000mm. Additionally, dual side panels on both sides of the rack make accessing cables easier—simply remove the top or bottom section of the panel. Finally, the back frame of the rack features removable tailbars at the top and bottom, eliminating a common obstacle to routing power and communication cables. These tailbars can be securely replaced after the IT cabling is complete.



Rack Features

Large open base for cable entry and exit
Dual rear doors and split side panels
Adjustable vertical mounting rails slide forward or backward within the rack
80% of the surface area of front and rear doors are perforated to aid in the thermal management of ultra-dense environments
Rack-top cable exits with adjustable, sliding door
Reinforced frame for stability
Unique side-rack PDU options for Dell PDUs
Reversible front door can be configured to open from left or right
Front and rear doors are removable
Rotating rear casters to easily position rack
Ideal base dimensions for 2-tile placement in data center
U-space numerical markings on both front and rear server mounting posts
Easily accessible leveling feet
Height allows movement through standard doorway

Rack Specifications

2420 Dimensions	Height 47.3" (1202mm) Width 23.82" (605mm) Depth 42.15" (1070mm)
2420 Static Load Rating	1,500 lbs.
4220 Dimensions	Height 78.7" (1999mm) Width 23.82" (605mm) Depth 42.15" (1070mm)
4220 Static Load Rating	2,500 lbs.
Rack Weights	
2420 frame, doors, sides	94.5kg
4220 frame	86kg
4220 frame, doors	106kg
4220 frame, doors, sides	135kg
Total Weight with Crate for Air Shipping	
2420	162.5kg
4220 frame	176.5kg
4220 frame, doors	196.5kg
4220 frame, doors, sides	225.5kg
Total Weight—Ground Shipping	
2420	120kg
4220 frame	114kg
4220 frame, doors	135kg
4220 frame, doors, sides	163kg

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