

DATA SHEET

PRIMECENTER

19-inch rack system

Issue April 2009

Pages 2

The trend toward consolidation by virtualization demands flexible and reliable environments. Are you ready for 19-inch PRIMECENTER rack technology from Fujitsu Technology Solutions?

PRIMECENTER racks are the basis for building 19-inch industry-standard rack configurations using the Fujitsu Technology Solutions product range (PRIMERGY, PRIMEPOWER, SPARC Enterprise, PRIMEQUEST, storage products, BS2000) and third-party servers. PRIMECENTER racks are available in heights starting from 12U for office environments to a 46U version or as a stacked 50U rack for data centers. Ease of service and simple maintenance of the mounted components is ensured by telescopic or sliding rails. The PRIMECENTER rack family meets the latest requirements for flexibility as regards cooling and maintenance, among other things thanks to optimum cable management, and for versatility when it comes to configuring 19-inch rack technology.

PRIMECENTER rack:

The PRIMECENTER racks are the foundation for rack configurations with products from Fujitsu Technology Solutions such as servers, operating devices and storage systems. Based on the DIN 41494 and IEC 297 standards, PRIMECENTER racks can also incorporate other products on the market that conform with these standards. The rack can be expanded horizontally and vertically without any problems and dovetails into existing DP environments. In particular, the stacking concept of this rack family means new flexibility in achieving racks of variable height. PRIMECENTER Racks come in 12, 24, 38 and 46 height units. Two versions with different depths – 1,000 and 1,100 mm – can also be created. PRIMECENTER racks have a patented cable management system, passive ventilation with high throughput for current and future IT products with high heat dissipation,

and large vertical expandability with additional bays for 19-inch devices with small space requirements. A key design principle is to ensure ease of service and maintenance for the mounted components.



Key features	Benefits
<ul style="list-style-type: none"> ■ Industry Standard racks 	<ul style="list-style-type: none"> ■ Optimized for mounting of server/storage products or servers and components from other vendors
<ul style="list-style-type: none"> ■ Installation ex works 	<ul style="list-style-type: none"> ■ Fully mounted, including cables and final-tested ex works
<ul style="list-style-type: none"> ■ Perfect Cable management 	<ul style="list-style-type: none"> ■ Optimized cable routing for short cable lengths, with variable cable inlet from outside
<ul style="list-style-type: none"> ■ Ease of service 	<ul style="list-style-type: none"> ■ Complete extraction thanks to telescopic rails for servers with hot-replace components. Doors can be tool less unhinged. Modules also can mount on sliding rails.
<ul style="list-style-type: none"> ■ Capacity 	<ul style="list-style-type: none"> ■ 12 to 50 height units plus 1x2 to 3x2 height units vertically (up to 300 mm including cable space)
<ul style="list-style-type: none"> ■ Design 	<ul style="list-style-type: none"> ■ Asymmetrical for ideal cable routing and ventilation
<ul style="list-style-type: none"> ■ Access protection 	<ul style="list-style-type: none"> ■ Lockable doors, front and rear. Side and top panels bolted

Technical Data

<p>Dimensions (1U = 44.45 mm, H x W x D)</p>	<ul style="list-style-type: none"> • 12U rack 670 x 700 x 1,000 mm Transport dimensions: 790 x 775 x 1,180 mm • 24U rack 1220 x 700 x 1,000mm/1,100 mm Transport dimensions: 1345 x 775 x 1,180mm/1,280 mm • 38U rack 1825 x 700 x 1,000mm/1,100 mm Transport dimensions: 1935 x 775 x 1,180mm/1,280 mm • 46U rack 2220 x 700 x 1,000mm/1,100 mm Transport dimensions: 2335 x 775 x 1,180mm/1,280 mm
Variants	<ul style="list-style-type: none"> • Rack with 2 side panels
Electrical connection	
<p>Connection is possible via a UPS. In this case, all the components can be connected directly to the UPS. The UPS must be connected to the primary power supply in accordance with the data sheet for the UPS in question. If the components are connected without a UPS, a multiple socket outlet with 3 x 4 connectors and 3 x 1 earth contact type sockets can be optionally configured in the rack. All multiple socket outlets must be ordered separately. Please consult the configurator for information on configuration. The primary power supply is provided via a 16 A/32 A CEE three-phase connector or as a non-detachable connection.</p> <p>Rated voltage range 200 – 240 V Nominal frequency 50 – 60 Hz</p>	
Ambient conditions (EN60721)	
<p>Transport:</p> <p>Ambient temperature -25°C to 60°C Relative humidity 15% – 98%</p> <p>Mechanical environmental conditions:</p> <p>Operation: Class 3K3*, 3M2, 3S2 Transport: Class 2K2, 2M2, 2M1 * Possibly restricted by rack components</p>	

Maximum load
10,000 N stationary on castors/leveling feet 10,000 N dynamically (only on castors)

Weight	
12U rack (empty)	82 kg/84kg
24U rack (empty)	110 kg/112kg
38U rack (empty)	150 kg/152 kg
46U rack (empty)	168 kg/170kg
Permitted total weight: 10,000 N / 1,000 kg	
19" clearance: 450.5 mm +1 mm/-0 mm	
Internal depth:	
Front/rear 19" level: 740 mm	
Minimum distance between the front 19" level and door: 60 mm	
19" prop mounting distance: 9.5 mm ²	
Security functions	
Lockable front and rear door, locked side panels and top, plus anti-tilt protection	
Protection class (to DIN 40050 or IEC 529) IP00	

Compliance with standards	
Product safety	
Global	
Europe	EN 60950
USA / Canada	UL 60950 CSA 60950
<p>There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons, can be applied on request.</p> <p>This product and the released accessories, are in compliance with emission class A. In certain cases measures have to be taken to reduce the electro magnetic influence to other equipment.</p>	
Electro magnetic compatibility	
Europe	EN55022 classA, EN55024, EN61000-3-2, EN61000-3-3
USA / Canada	CFR47, part 15, subpart B, class A / ICES class A
Declaration of conformity	
Europe (CE)	CE
North America	FCC class A

Information about environmental care, policies, programs and our Environmental Guideline FSC03230:

ts.fujitsu.com/aboutus

Take back and Recycling information: ts.fujitsu.com/recycling