Data Sheet
FUJITSU PRIMECENTER M2 19-inch Racks

19-inch Industry Standard Rack Systems

The trend to consolidation as a result of virtualization and optimization require environments that are more flexible and reliable. Decades of data center expirience at Fujitsu result in the latest 19-inch Rack Family.
The new Fujitsu PRIMECENTER racks are the foundation for meeting IT data center requirements. The PRIMECENTER Racks are the basis for building perfect data center infrastructures. The PRIMECENTER 19-inch Racks can be used to install Fujitsu solutions as well as third-party products. They meet all requirements for flexibility thanks to the multiple configuration options, cooling and maintenance features. In addition a broad portfolio of optional rack accessories complete the efficient rack infrastructure solutions.

PRIMECENTER M2 19-inch Racks

The Fujitsu PRIMECENTER M2 family meets 19-inch rack standards, while offering a suitable platform for rack configurations. Accurate fitting is ensured via the various rails for Fujitsu servers, storage systems and server products from other manufacturers. An elaborated inner zone management generates maximum space utilization and flexibility for all kinds of rack components, for example the operating controls, uninterruptible power supplies (UPS) and power distribution units (PDUs). With the announcement of M2 racks, Fujitsu has released new innovative PDUs with a basic, metered and managed feature set - from easy cabling to the notification of current measurements and full management of each electrical socket.

The PRIMECENTER M2 Racks are available in four different symmetric structures with up to 6 vertical 19-inch slots on the front left and right with enough space for cabling options and switch installations. This includes two 42 U units with 1200 mm depth in 600 mm width for perfect use of space in datacenters and a 800 mm width version for more cable space and vertical slot options. Moreover a 47 U rack version with 800 mm wide and 1200 mm deep design for even more capacity and a smaller 24 U version at 600 mm width and 1100 mm depth for better space allocation in office environments are obtainable.

High level safety and security is ensured by comprehensive test scenarios in grounding (DIN EN60950) and IP20 (DIN 40 050 and IEC 529), protection against hazardous parts, compliance with EIA310-D, DIN41494, IEC 297 and a mechanical door lock with up to 200 combinations on request.

A wide range of accessories is directly available and can be configured via Fujitsu SystemArchitect® or can be retrofitted on demand. An additional security environment for the new M2 Rack is the Managed Rack Solution (MRS) which is based on Fujitsu PalmSecure ID Match, a MLR1000 electronic door lock and different rack shock and door sensors. This biometric solution is characterized through its more reliable hand vein scan technology in contrast to fingerprint or iris scanner solutions. Another optional but helpful add-on is the tilting protection which prevents the rack from tipping over while heavy servers are pulled out during maintenance.

Approximately 83% perforation ensures an optimized air flow for cooling and high heat dissipation. This - combined with a tool-free design for easy service and simple maintenance plus high scalability serves – is an ideal solution for all types of infrastructures.



Features & Benefits

Main Features	Benefits
Compatible form-factor	
■ 19-inch standard rack technology	■ Compatible with Fujitsu Technology Solutions rack servers, storage products and components as well as products from most manufacturers
Optimized rack structures	
■ Optimized rack structures	■ Different rack frames for efficient server, switch, power and cable installation with best possible airflow; Lightweight aluminum frame for low stress on DC raised floors
Ideal design	
■ Design	■ Symmetric rack structures: 600 mm with 24 and 42 height units or 800 mm width with 42 and 47 height units
Scalable capacities	
■ Capacity	■ 24, 42 and 47 U, up to 6 vertical slots for switches or cable routing
■ Ease of service	■ One wing front door and two wing rear door, tool less removable. ■ Retractable anti-tilt protection. ■ Low heavy duty castors for safe movement of the rack. ■ Optional rack monitoring system (RMS) available. ■ Optional factory installation with cabling and final verification.
■ Quick releaseable parts including lock-features (optional electronic locking mechanism)	■ Front-, rear doors and side panels are easy to dismount and lockable.
■ Optional Anti Tilt Protection	■ Ideally integrated into the rack with maximum safety against tilt over.
■ Various PDU-Brackets and easy tool-less accessories	■ Maximum utilization of rack space and convenient maintainability.

Technical details

Base unit	Order code	Dimensions (W x D x H)	Vertical Slots	Transport Dimensions (W x D x H)	Max. pay load / dynamic load	Net weight
PCR M2 24U 600	S26361-K828-V624	600mm x 1100mm x 1200mm	0	700mm x 1400mm x 1610mm (approx.)	480 kg / 570 kg	82 kg
PCR M2 42U 600	S26361-K828-V642	600mm x 1200mm x 2000mm	0	700mm x 1400mm x 2150mm (approx.)	840 kg / 1000 kg	120 kg
PCR M2 42U 800	S26361-K828-V442	800mm x 1100mm x 2000mm	2x3	900mm x 1400mm x 2150mm (approx.)	840 kg / 1000 kg	143 kg
PCR M2 42U 800	S26361-K828-V842	800mm x 1200mm x 2000mm	2x3	900mm x 1400mm x 2150mm (approx.)	840 kg / 1000 kg	143 kg
PCR M2 47U 800	S26361-K828-V847	800mm x 1200mm x 2200mm	2x3	900mm x 1400mm x 2360mm (approx.)	840 kg / 1000 kg	170 kg

Rack Infrastructure

Variants	Symmetrical design 800 x 1200 mm, 47 U Symmetrical design 800 x 1200 mm, 42 U Symmetrical design 800 x 1100 mm, 42 U Symmetrical design 600 x 1200 mm, 42 U Symmetrical design 600 x 1100 mm, 24 U				
Capacity	24 height units with up to 20 kg load per horizontal height unit and maximum weight up to 570 kg.	42 height units with up to 20 kg load per horizontal and maximum weight up to 1000 kg.	42 height units plus 6 vertical height units. Up to 20 kg load per horizontal, 3.5 kg per vertical height unit and maximum weight up to 1000 kg.	42 height units plus 6 vertical height units. Up to 20 kg load per horizontal, 3.5 kg per vertical height unit and maximum weight up to 1130 kg.	47 height units plus 6 vertical height units. Up to 20 kg load per horizontal, 3.5 kg per vertical height unit and maximum weight up to 1000 kg.
Doors	One wing front door and twin rear door with high percentage of holes (approx. 83%) for improved server cooling. Ergonomic door handles				
Front door	One wing front door with right or left hand mounting possible.				
Rear door	Twin doors to optimize needed service space				

Internal depth

19-inch clearance	450.5 mm
Front/rear 19-inch level	740 mm, both levels steplessly movable
Space for cabling	Up to 80 mm on front side (42/47 U) Up to 380 mm on rear side (42/47 U)
Cable management and service	
Maximum load	Up to 11300 N stationary on leveling feets, 200 N per U 11300 N dynamic load (movable on castors)
Permitted total weight	
Shipment	Optionally ex works, fully mounted and tested including cabling. Shipment including 4 heavy-duty castors and 4 adjusting feet on a shock-absorbing pallet.
Top cover	Two break out entries for external cabling

Security

Protection class	DIN (EN60529) IP20
Security functions	Mechanical lockable front and rear door (optional electrical) with standard identically locks or possible different lock combinations. Optional antitilt protection.
Rack accessories	Optional available: rack mounting kits; cable management solutions; networking components, I/O switches, mounting kits, accessory kits, shelves, electrical connections, monitoring (rack console, rack monitoring system, KVM switches), uninterruptible power supply (UPS), power distribution units (PDU)

Environment

Environmental compliance	Operation:	Class 3K3*, 3M2, 3S2
	Transport:	Class 2K2, 2M2. 2M1

Environment	
Environmental compliance note	*Possibly restricted by rack components
Operating relative humidity	15 - 98 %
Operating environment	FTS 04230 – Guideline for Data Center (installation specification)
Operating environment link	http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe

Compliance	
Global	CB RoHS (Substance limitations in accordance with global RoHS regulations) WEEE (Waste electrical and electronical equipment)
Compliance notes	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 for on request.
Compliance link	https://sp.ts.fujitsu.com/sites/certificates

More information

Fujitsu products, solutions & services

In addition to Fujitsu PRIMECENTER M2 19-inch Racks, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio
Built on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offerings. This allows customers to select from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products
www.fujitsu.com/global/products/computing/

Software
www.fujitsu.com/software/

More information

Learn more about Fujitsu PRIMECENTER M2 19-inch Racks, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/primergy

Fujitsu green policy innovation

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Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT.
Please find further information at http://www.fujitsu.com/global/about/environment



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