

Data Sheet

FUJITSU Server PRIMEQUEST 2400E2 Mission Critical

No Time for Downtime

Combining the power of Intel® Xeon® Processor E7 product family, the standard specifications of Microsoft Windows and Linux operating systems and the wealth of market solutions with innovative fault immune system architecture for highest availability and business continuity, FUJITSU Server PRIMEQUEST systems provide a new operational efficiency for business and mission-critical computing with truly open standards and to deliver highest performance. FUJITSU Server PRIMEQUEST systems combine the efficiency of an x86-architecture with the reliability levels rivaling that of a UNIX/mainframe architecture. This makes it ideal for processing big data, in-memory solutions such as SAP HANA® and business intelligence applications.

need for a reboot of the system.



PRIMEQUEST 2400E2 Mission Critical

FUJITSU Server PRIMEQUEST 2400E2 Mission Critical is the prime system for economic mission-critical computing. It unifies the economic and flexibility benefits of x86 industry standard systems with mission-critical uptime features. Customers will thus continuously benefit from a radically optimized cost effectiveness compared to UNIX-based enterprise platforms, while preserving all the RAS qualities so that the system always remains active. Featuring four of the Intel® Xeon® processor E7-8800 v3 product family provided with up to 72 cores and 6TB DDR4 memory, the PRIMEQUEST 2400E2 provides unprecedented performance and memory capacity for demanding corporate databases, mission-critical applications and in-memory solutions. Mission critical features also enable outstanding platform reliability with innovative error prevention and self-healing capabilities, such as a reserved system board, flexible I/O as well as logical and physical hardware partitioning (PPAR). Moreover, unique features, such as Dynamic Reconfiguration enable the efficient use of available resources while simplifying resource management without any



Features & Benefits

Main Features	Benefits
<p>Operational efficiency</p> <ul style="list-style-type: none"> ■ Combines x86 industry standard with mission-critical features ■ Eliminate costs related to the UNIX world ■ New levels of energy efficiency <p>Mission critical uptime leads to highest availability values in the x86 industry standard</p> <ul style="list-style-type: none"> ■ Different partitioning available: From software partitioning to completely isolated physical partitioning ■ Up to two physical partitions (PPAR): Failures of one partition do not influence other partitions ■ Active reserved system board for fast automatic recovery of services, in many cases without downtime ■ Flexible I/O ensures availability of PCIe devices ■ Almost everything is redundant ■ Online maintenance <p>Dynamic platform for demanding applications</p> <ul style="list-style-type: none"> ■ 4x Intel® Xeon® processor E7-8800 v3 family with up to 72 cores ■ 96 DIMM slots enable a configuration of up to 6TB memory ■ 'Glue-less' design, no external QPI cables ■ Many I/O expansion options for up to 56 PCIe slots ■ Dynamic Reconfiguration enables changes in the configuration of resources and system boards without stopping the application 	<ul style="list-style-type: none"> ■ Unity of x86 efficiency and flexibility with mission-critical availability ■ Lower license fees and software maintenance costs for Oracle databases <ul style="list-style-type: none"> ■ Flexible platform to best meet individual requirements ■ Business continuity ensured even if there is a failure in one of the partitions ■ Its built-in error prevention/correction and self-healing capabilities result in outstanding platform reliability ■ All serviceable system modules can be accessed from the front or rear of the system without any cabling hassle. Moreover, Dynamic Reconfiguration enables online maintenance without the need for restarts or planned downtimes <ul style="list-style-type: none"> ■ Unprecedented performance and memory capacity for demanding corporate databases, in-memory solutions and mission-critical applications ■ I/O throughput ensured ■ Efficient usage of available resources and simplified resource management without any need for restarts

Technical details

Mainboard type	up to 2 x Systemboard			
Processor quantity and type	1 - 4 x Intel® Xeon® processor E7-8800 v3 product family			
Memory slots	96 Max. 6 TB			
Memory slot type	DIMM (DDR4)			
Memory capacity (min. - max.)	16 GB - 6 TB			
Memory protection	ECC Memory Mirroring support Advanced ECC DDDC (Double Device Data Correction)			
Memory notes	Up to 96 DIMM slots per server within 2SB, each equipped with 2 Memory Mezzanine cards. 6TB will be available.			
Memory modules notes	Memory modules will be delivered in set's of 2 DIMMs per order code			
Interfaces				
Graphics (15-pin)	2 x VGA (1x per SB)			
Management LAN (RJ45)	Dedicated Service LAN port for MMB (10/100 Mbit/s)			
Onboard or integrated Controller				
RAID controller	RAID 0/1 or RAID 5/6 controller integrated in System board and/or Disk Unit (option) Options are described under Components RAID controller			
LAN controller	LAN controllers are integrated in optional I/O units, details are described under I/O options			
Remote management controller	PQ2000 Management Board (MMB)			
Service Processor				
General	Management Board (MMB), located on the rear side of the system. 2nd MMB as option			
Interfaces	For Maintenance: - Local: 10/100M RJ45 for local maintenance. - Remote: 10/100M RJ45 for REMCS, AIS-Connect, ACA and ServiceLink connection (Remote monitoring service). For Management - 0/1 10M/100M/1G RJ45			
Redundancy	Up to two MMB unit can be installed in one chassis. 2nd MMB for redundancy is optional. 2nd MMB is not supported at Business model (2800B).			
I/O options				
Type	LAN ports	based on	number of PCIe slots	Max. number
I/O Unit 10GbE full-height	2 x 100/1000 Mbit/s / 10 Gbit/s Ethernet (RJ45)	Intel® X540-AT2	2x PCIe Gen3 full height / 1x PCIe Gen3 low profile	4
I/O Unit 1GbE low-profile	2 x 10/100/1000 Mbit/s Ethernet	Intel® I350-AM2	4x PCIe Gen3 low profile	4
Drive bays				
Storage drive bays	2.5-inch hot-plug SAS			
Storage drive bay configuration	Max. 16 x 2.5-inch			
General system information				
Number of fans	6			
Fan configuration	hot plug			
Fan notes	PSU cooling fan will be used as chassis cooling facility			
Operating panel				
Status LEDs	System status (orange / yellow) Power (amber / green) Identification (blue)			
RAS Features				
Standard	SDDC, ECC, redundant fans and power supply			

RAS Features

Advanced	Intra-socket memory mirroring, MCA, DDDC
Mission-Critical	Reserved SB, flex IO, Dynamic Reconfiguration, red. MMB, hot-plug PCIe

Operating Systems and Virtualization Software

Operating system release link	http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473
Operating system notes	Not all Oses, OS versions and server functions will be released at server release. For details refer to link below.

Server Management

Standard	<ul style="list-style-type: none"> ServerView Suite - Maintain <ul style="list-style-type: none"> Remote Management (iRMC in combination with Intel® Node Manager) Update Management (BIOS, Firmware, Windows Drivers, Agents and CIM Providers) Performance Measurement Asset Management Online Diagnostics ServerView Suite - Integrate <ul style="list-style-type: none"> Integration packs for Microsoft System Center, VMware vCenter, VMware vRealize, Nagios, and HP SIM Deployment tools and others ServerView Suite - Deploy <ul style="list-style-type: none"> SV Installation Manager ServerView Suite - Control <ul style="list-style-type: none"> Operations Manager incl. PDA and ASR & R Agents and CIM Providers / Agentless Service System Monitor RAID Manager Capacity Management Power Management Storage Support
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Dimensions / Weight

Rack (W x D x H)	445 x 782 x 438 mm
Height Unit Rack	10 U
19" rackmount	Yes
Weight	Up to 128 kg
Weight notes	Fully assembled Actual weight may vary depending on configuration

Environment

Operating ambient temperature	5 - 35 °C
Operating relative humidity	20 - 80 %
Maximum altitude	3.000 m
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
Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
Sound pressure (LpAm)	60dB, 69dB(80 Plus Platinum)
Sound power (LWAd; 1B = 10dB)	7.8B, 8.7B(80 Plus Platinum)

Electrical values

Power supply configuration	Up to 4 hot plug power supplies. Base unit equipped with 0 power supplies, redundancy as option.
Max. input of single power supply	3200 W / 1600W (240 V / 100V)
Power supply efficiency	94 % (80 PLUS platinum) 89 %
Hot-plug power supply redundancy	Yes
Rated voltage range	100 V - 240 V
Rated frequency range	47 Hz - 63 Hz
Rated current max.	65A / 29A (100 V / 240 V)
Rated current in basic configuration	7,2A
Active power (max. configuration)	3,579 W

Electrical values

Heat emission (max. configuration)	12884.4 kJ/h (12212.0 BTU/h)
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Compliance

Global	CB RoHS (Substance limitations in accordance with global RoHS regulations) WEEE (Waste electrical and electronic equipment) - planned
Europe	CE Class A *
Japan	VCCI
Compliance link	https://sp.ts.fujitsu.com/sites/certificates
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. * Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Components

Hard disk drives

HDD SAS, 12 Gb/s, 900 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 12 Gb/s, 600 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 12 Gb/s, 600 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 12 Gb/s, 300 GB, 15,000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 12 Gb/s, 2.4 TB, 10,000 rpm, 512e, hot-plug, 2.5-inch, enterprise
HDD SAS, 12 Gb/s, 1.8 TB, 10,000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, hot-plug, 2.5-inch, enterprise

Solid-State-Drive

SSD SAS, 12 Gb/s, 400 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (5y)
PCIe-SSD AIC, 800 GB, MLC, HHHL, Flash drive, 10 DWPD (drive writes per day)
PCIe-SSD AIC, 2 TB, MLC, HHHL, Flash drive, 10 DWPD (drive writes per day)
PCIe-SSD AIC, 1.6 TB, MLC, HHHL, Flash drive, 10 DWPD (drive writes per day)

SCSI / SAS Controller

LSI PSAS CP400e SAS Ctrl. 12 Gbit/s 8 ports ext. PCIe 3.0 x8
SAS Ctrl., SAS/SATA 12 Gbit/s, RAID level: ,

RAID Controller

RAID Ctrl FBU option with 25cm cable, RAID level: ,
Fujitsu PRAID EP420i, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3108
Fujitsu PRAID EP420e LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3108
Fujitsu PRAID EP420e FH, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3108

Fibre Channel controller

Fibre Channel Host Bus Adapter 1 x 8 Gbit/s Emulex LPe1250 MMF LC-style
Fibre Channel Host Bus Adapter 2 x 8 Gbit/s Emulex LPe12002 MMF LC-style
Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Emulex LPe16000B LC-style

Fibre Channel controller

Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Emulex LPe16002B LC-style
Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Qlogic QLE2670 LC-style
Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Qlogic QLE2672 LC-style

Communication, Network	Converged Network Adapter 2 x 10 Gbit/s PCIe 3.0 x8 SFP+ (Emulex)
	Ethernet Ctrl. 2 x 10 Gbit/s PCIe 2.0 x8 SFP+ (Fujitsu)
	Ethernet Ctrl. 2 x 10 Gbit/s PCIe 2.1 x8 RJ45 (Intel®)
	Ethernet Ctrl. 2 x 1 Gbit/s PCIe 2.1 x4 RJ45 (Intel®)
	Ethernet Ctrl. 4 x 1 Gbit/s PCIe 2.1 x4 RJ45 (Intel®)
	InfiniBand HCA 1 x 56 Gbit/s PCIe 3.0 x8 QSFP for the US market max. one IB HCA 56Gb controller can be installed (Mellanox)
InfiniBand HCA 2 x 56 Gbit/s PCIe 3.0 x8 QSFP for the US market max. one IB HCA 56Gb controller can be installed (Mellanox)	

Warranty

Warranty period	3 years (depending on country)
Warranty type	Onsite Service
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty/Index.asp?LNG=COM
Product Support Services - the perfect extension	
Service Lifecycle	5 years after end of product life
Spare Parts availability	5 years
Service Weblink	www.fujitsu.com/support

More information

Fujitsu products, solutions & services

In addition to FUJITSU Server PRIMEQUEST 2400E2 Mission Critical, 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 Server PRIMEQUEST 2400E2 Mission Critical, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
<http://www.fujitsu.com/fts/products/computing/servers/mission-critical/primequest-2400e2/index.html/>

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. 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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