

Data Sheet FUJITSU Server PRIMEQUEST 2400E3

No Time for Downtime

PRIMEQUEST 2400E3

FUJITSU Server PRIMEQUEST 2400E3 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/Mainframe-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 v4 product family provided with up to 96 cores and 12TB DDR4 memory, the PRIMEQUEST 2400E3 provides unprecedented performance and memory capacity for demanding corporate databases, mission-critical applications and in-memory database solutions. Mission critical features also enable outstanding platform reliability with innovative error prevention and self-healing capabilities, such as a reserved system board, flexible hot-plug I/O as well as physical hardware partitioning (PPAR). Moreover, unique features, such as Dynamic Reconfiguration enable the efficient use of available resources while simplifying resource management without any need for a reboot of the system.













Features & Benefits

Dynamic Reconfiguration enables changes in the configuration of

resources and system boards without stopping the application

Main Features Benefits Operational efficiency ■ Combines x86 industry standard with mission-critical features Unity of x86 efficiency and flexibility with mission-critical ■ Eliminate costs related to the UNIX world availability ■ New levels of energy efficiency Lower license fees and software maintenance costs for Oracle databases Mission critical uptime leads to highest availability values in the x86 industry standard ■ Different partitioning available: From software partitioning to ■ Flexible platform to best meet individual requirements completely isolated physical partitioning ■ Business continuity ensured even if there is a failure in one of the ■ Up to two physical partitions (PPAR): Failures of one partition do not influence other partitions Its built-in error prevention/correction and self-healing capabilities Active reserved system board for fast automatic recovery of result in outstanding platform reliability ■ All serviceable system modules can be accessed from the front or services, in many cases without downtime ■ Flexible I/O ensures availability of PCIe devices rear of the system without any cabling hassle. Moreover, Dynamic Almost everything is redundant Reconfiguration enables online maintenance without the need for Online maintenance restarts or planned downtimes Dynamic platform for demanding applications ■ 4x Intel® Xeon® processor E7-8800 v4 family with up to 96 cores Unprecedented performance and memory capacity for demanding 96 DIMM slots enable a configuration of up to 12TB memory corporate databases, in-memory solutions and mission-critical ■ 'Glue-less' design, no external QPI cables applications ■ Many I/O expansion options for up to 56 PCle slots I/O throughput ensured

Efficient usage of available resources and simplified resource

management without any need for restarts

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Technical details

PRIMEQUEST 2400E3					
Mainboard type	up to 2 x Systemboard				
Processor quantity and type	1 - 4 x Intel® Xeon® processor E7	1 - 4 x Intel® Xeon® processor E7-8800 v4 product family			
Memory slots	96 Max. 12 TB				
Memory slot type	DIMM (DDR4)				
Memory capacity (min max.)	16 GB - 12 TB				
Memory protection	ECC				
	Advanced ECC Memory Mirroring support				
	Address Range Memory Mirrorir	na support			
	DDDC (Double Device Data Corr				
Memory notes	Up to 96 DIMM slots per server v special release.	Up to 96 DIMM slots per server within 2 system boards, each equipped with 2 Memory Mezzanine cards. 12TB on special release.			
Memory modules notes	Memory modules will be deliver	red in set's of 2 DIMMs	per order code		
nterfaces	0 MO: //				
Graphics (15-pin)		2 x VGA (1x per SB)			
Management LAN (RJ45)	Dedicated Service LAN port for I	MMR (10/100 Mbit/s)			
Onboard or integrated Controlle	r				
RAID controller	RAID 0/1 or RAID 5/6 controller i Options are described under Co				
LAN Controller		LAN controllers are integrated in optional I/O units, details are described under I/O options TCP/IP acceleration, PXE boot via LAN from PXE server, iSCSI boot (also diskless) via onboard LAN			
Remote management controller	PQ2000 Management Board (Mi	MB)			
ast IDE/Ultra DMA-100					
LAN Controller	Intel® I350-AM2		Intel® X540-AT2		
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 n - Remote: 10/100M RJ45 for REM For Management - 0/1 10M/100M/1G RJ45		and ServiceLink connection (Remote	e monitoring service).	
Redundancy	Up to two MMB unit can be insta at Business model (2800B).	alled in one chassis. 2r	d MMB for redundancy is optional. 2	nd MMB is not suppor	
/O options					
Гуре	LAN ports	based on	number of PCIe slots	Max. number	
/O Unit 10GbE full-hight	2 x 100/1000 Mbit/s / 10 Gbit/s Ethernet (RJ45)	Intel® X540-AT2	2x PCIe Gen3 full hight / 1x PCIe low profile	e Gen3 4	
/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				
ran configuration	***************************************				

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0 "		
Operating panel		
Status LEDs	System status (orange / yellow) Power (amber / green) Identification (blue)	
RAS Features		
Standard	SDDC, ECC, redundant fans and power supply	
Advanced	Intra-socket memory mirroring, MCA, DDDC	
Mission-Critical	Reserved SB, flex IO, Dynamic Reconfiguration, red. MMB, hot-plug PCIe	
Operating Systems and Virtualization S	ioftware	
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		
DC Infrastructure Management	ServerView Suite - Maintain 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 Integration packs for Microsoft System Center, VMware vCenter, VMware vRealize, Nagios, and HP SIM Deployment tools and others ServerView Suite - Deploy SV Installation Manager ServerView Suite - Control Operations Manager incl. PDA and ASR & R Agents and CIM Providers / Agentless Service System Monitor RAID Manager Capacity Management Power Management Storage Support	
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 ℃	
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	

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Electrical values	
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
Heat emission (max. configuration)	12884.4 kJ/h (12212.0 BTU/h)
Compliance	
Product	PRIMEQUEST
Model	2400E3
Global	CB
	RoHS (Substance limitations in accordance with global RoHS regulations)
	WEEE (Waste electrical and electronical 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

	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
Hard disk drives	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, 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
	SSD SAS, 12 Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (5y)
	SSD SAS, 12 Gb/s, 400 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (5y)
	SSD SAS, 12 Gb/s, 1.6 TB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (5y)
	PCIe-SSD AIC, 4 TB, Mixed-use, HHHL, Flash drive, 3.1 DWPD (Drive Writes Per Day for 5 years)
	PCIe-SSD AIC, 2 TB, Mixed-use, HHHL, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)
	SAS Ctrl., SAS/SATA 12 Gbit/s, RAID level: ,
RAID Controller	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
	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 controller	Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Emulex LPe16000B LC-style
	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
	Converged Network Adapter 2 x 10 Gbit/s PCle 3.0 x8 SFP+ (Emulex)
	Ethernet Ctrl. 2 x 10 Gbit/s PCle 2.0 x8 SFP+ (Fujitsu)
Communication, Network	Ethernet Ctrl. 2 x 10 Gbit/s PCle 2.1 x8 RJ45 (Intel®)

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Ethernet Ctrl. 2 x 10 Gbit/s PCle 2.1 x8 RJ45 (Intel®)
Ethernet Ctrl. 2 x 1 Gbit/s PCle 2.1 x4 RJ45 (Intel®)
Ethernet Ctrl. 4 x 1 Gbit/s PCle 2.1 x4 RJ45 (Intel®)

Warranty

Product Support Services - the perfect extension

Spare Parts availability

5 years

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More information

In addition to Fujitsu PRIMEQUEST 2400E3, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures
With the Fujitsu Dynamic Infrastructures
approach, Fujitsu offers a full portfolio of IT
products, solutions and services, ranging
from clients to datacenter solutions, Managed
Infrastructure and Infrastructure as-aService. How much you benefit from Fujitsu
technologies and services depends on the
level of cooperation you choose. This takes IT
flexibility and efficiency to the next level.

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

Software www.fujitsu.com/software/

More information

Learn more about Fujitsu PRIMEQUEST 2400E3, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. http://ts.fujitsu.com

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