FUJITSU

Data Sheet FUJITSU Server PRIMEQUEST 2400E 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 x86architecture 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.

PRIMEQUEST 2400E Mission Critical

Fujitsu's PRIMEQUEST 2400E unite the economic and flexibility benefits of x86 industry standards with mission-critical uptime features. Customers will thus immediately benefit from a radically optimized cost effectiveness against comparable UNIX-based enterprise platforms, while preserving all the attributes so that the system always remains active. Featuring four of the Intel® Xeon[®] processor E7 v2 family which deliver up to 60 cores and 6TB memory, the PRIMEQUEST 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 innnovative error prevention and self-healing capabilities, such as Reserved System Board, Flexible I/O as well as physical 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 restart.















Features & Benefits

Main Features

Operational efficiency

- Combines x86 industry standard with mission-critical features
- Eliminate costs related to the UNIX world
- New levels of energy efficiency

Mission critical uptime leads to highest availability values in the x86 industry standard

- Different partitioning available: From software partitioning to completely isolated physical partitioning (PPAR)
- 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

Dynamic platform for demanding applications

- 4x Intel[®] Xeon[®] processor E7 v2 family with up to 60 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 64 PCIe slots
- Dynamic Reconfiguration enables changes in the configuration of resources and system boards without stopping the application

Benefits

- Unity of x86 efficiency and flexibility with mission-critical availability
- Lower license fees and software maintenance costs for Oracle databases
- 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
- 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

Mainheard type	up to 2 y Systemboard					
Mainboard type Chipset	up to 2 x Systemboard	mory Buffor (Advanced)				
·	Intel® C104 Scalable Memory Buffer (Advanced) Intel® C602 J					
Processor quantity and type	1 - 4 x Intel® Xeon® pro	cessor E7-8800 v2 product fa	amily / Intel® Xeon® processor E7-480	0 v2 product family		
Memory slots	96 Max. 6 TB					
Memory slot type	DIMM (DDR3) LV					
Memory capacity (min max.)	16 GB - 6 TB					
Memory protection	ECC Memory Mirroring supp Advanced ECC DDDC (Double Device D					
Memory notes		Up to 96 DIMM slots per server within 2SB, each equipped with 2 Memory Mezzanine cards. 6TB will be available when 64GB LRDIMM module will shipped.				
Memory modules notes	Memory modules will b	e delivered in set´s of 2 DIM	Ms 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 B	Board (MMB)				
Service Processor						
General	Management Board (Mi 2nd MMB as option	MB), located on the rear side	e of the system.			
Interfaces	For Maintenance: - Local: 10/100M RJ45 fc - Remote: 10/100M RJ45 For Management - 0/1 10M/100M/1G RJ4!	5 for REMCS, AIS-Connect, AC	A and ServiceLink connection (Remot	e monitoring service).		
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 LAI	N ports	based on	number of PCIe slots	Max. number		
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 facil	ty			
Operating panel						
Status LEDs	System status (orange / Power (amber / green) Identification (blue)	yellow)				
RAS Features						
Standard	SDDC, ECC, redundant fa					

Advanced Intra-socket memory mirroting, MCA, DODC Mission-Critical Reserved SB, flox LD, Dynamic Reconfiguration, red. MMB, hot plug PCic Operating system release link http:/docs. IS. sligisus.com/idl.asga/hd=/dkebl646-aa0c-4781-8158-4ctP12306473 Operating system notes Not all OSE. GS vessions and exerver functions will be released at server release. For details refer to link below. Server Management ServerView. Suite: Mancann teampement (BOS, Firmware, Windows Drivers, Agents and CIM Providers) Sandard ServerView. Suite: Mancann teampement (BOS, Firmware, Windows Drivers, Agents and CIM Providers) ServerWiew Suite: Integrate ServerView. Suite: Mancann teampement (BOS, Firmware, Windows Drivers, Agents and CIM Providers) ServerWiew Suite: Integrate ServerView Suite: Integrate Deployment tools and others ServerView Suite: Integrate ServerWiew Suite: Control Operations, Server Operations, ServerWiew Suite: Control Operations, ServerWiew Suite: Control Operating ServerWiew Suite: Control Operating Server Ves Fully assembleid Red (W to bet) 4625 x 782 x 438 mm Height Unit Rack 10.0 Pir acknownt Ves Weight Up to 124 kg	RAS Features			
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Operating system release link http://doi:15.10jisu.com/diasp:/di-d4ebd8/6-a00-478b-8158-4/db/3230473 Operating system notes Not all OSe, OS versions and server functions will be released at server release. For details refer to link below. Server/Management Server/Verw Suite - Maintain Remote Management (BMC in combination with Intel® Node Manager) Update Management (BMC in combination with Intel® Node Manager) Update Management (BMC). Finitware, Windows Drivers, Agents and CIM Provides) Server/Verw Suite - Maintain Remote Management (BMC). Finitware (Mindows Drivers, Agents and CIM Provides) Server/Verw Suite - Integrate Integration packs for Microsoft System Center, VMware vCenter, VMware vMealize, Nagion, and HP SIM Deployment tools and afters Server/Verw Suite - Control Operations and CMP Providers / Agenties Service Server/Verw Suite - Control Operations and CMP Providers / Agenties Service Strange Support Provider / Agenties Service Dever Management Strange Support Dimensions / Weight Up to 1 Provider / Agenties Service Prover Management Up asservice Rat (MA operation add SR & R Agents and CMP Providers / Agenties Service Service Service Service Service Prover Management Up operation add SR & R Agents and CM	Mission-Critical			
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Rated current in basic configuration 7,2A				
	Active power (max. configuration)	J, / +++ 1V		

Electrical values		
Heat emission (max. configuration)	13478.4 kJ/h (12775.1 BTU/h)	
Compliance		
Global	CB RoHS (Substance limitations in accordance with global RoHS regulations) WEEE (Waste electrical and electronical equipment) - planned	
Еигоре	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 use may be required to take adequate measures.	

Components

	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 controller	Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Emulex LPe16002B LC-style		
	Converged Network Adapter 2 x 10 Gbit/s PCIe 3.0 x8 SFP+ (Emulex)		
Communication, Network	Ethernet Ctrl. 2 x 10 Gbit/s PCIe 2.0 x8 SFP+ (Fujitsu)		
	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®)		
Communication, Network	Ethernet Ctrl. 2 x 1 Gbit/s PCIe 2.1 x4 RJ45 (Intel®)		
	Ethernet Ctrl. 2 x 1 Gbit/s PCIe 2.1 x4 RJ45 (Intel®)		
Communication, Network	Ethernet Ctrl. 4 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)		
Communication, Network	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 Product Support Services - the perf	http://support.ts.fujitsu.com/warranty/Index.asp?LNG=COM ect extension		
Service Lifecycle	5 years after end of product life		
	1 1		

More information

Fujitsu products, solutions & services

In addition to FUJITSU Server PRIMEQUEST 2400E 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.

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Software

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More information

Learn more about FUJITSU Server PRIMEQUEST 2400E 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-2400e/index.html/

Fujitsu green policy innovation

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