

Data Sheet FUJITSU Server PRIMEQUEST 2800B2 Business Critical

Grow your business with vast performance and business-critical reliability on x86

PRIMEQUEST 2800B2 Business Critical

FUJITSU Server PRIMEQUEST 2800B2 is an 8-socket rack server equipped with the latest Intel® Xeon® E7-8800 v3 processor family. Providing up to 144 cores and enormous as wells as super fast 12TB DDR4 main memory, populated over 192 DIMM slots, this system offers highest performance. In combination with many PCle 3.0 expansion options, the PRIMEQUEST 2800B2 offers performance and scalability with no compromise. Fortified with advanced RAS that enables actions in advance to avoid errors, this 10U rack server is the right choice for demanding databases, in-memory solutions and business-critical applications.













Features & Benefits

Main Features

Scalable platform for transaction demanding workloads and consolidation

- 8x Intel Xeon processor E7-8800 v3 product family with up to 144 cores
- Huge memory capacity of 12TB over 192 DIMMs
- 16 PCle 3.0 expansion options
- Economic scaling from 2 to 8 sockets

Smart architecture with advanced RAS for Business Critical Workloads

- 'Glue-less' design, no external QPI cables
- Dual power feed option for two redundant phases
- Advanced memory protection and intra-socket mirroring
- System health check and failure prevention (MCA) Cost efficient operations
- Simplified power management with different pre-defined power profiles
- Fujitsu ServerView Suite offers tools for installation and deployment, permanent status monitoring and control. A wide range of integration packs allow a seamless and easy integration in widelyused enterprise management systems

Benefits

- Unprecedented performance and memory capacity for demanding corporate databases, in-memory solutions and business-critical applications
- Fast I/O throughput ensured
- This system is designed to enable simplify scale-up as required components are "inside" the system thanks to the "glueless" system design
- Advanced RAS features have been built into to enable advanced actions for error circumvention, assisted by the enterprise x86 operating systems to increase the system availability
- No external QPI cables ensure a high level of serviceability
- Simplified and comprehensive power management that results with the high efficient power supplies in significant savings
- Fujitsu ServerView Suite provides all the functions for fail-safe, flexible and automated 24x7 server operations and improves end-user productivity via intelligent and innovative system management solutions.

Technical details

PRIMEQUEST 2800B2 Business Crit	ical					
Mainboard type	up to 4 x Systemboa	rd				
Processor quantity and type	2, 4, 6, 8 x Intel® Xeor	2, 4, 6, 8 x Intel® Xeon® processor E7-8800 v3 product family				
Memory slots	192 Max. 12 TB					
Memory slot type	DIMM (DDR4)	DIMM (DDR4)				
Memory capacity (min max.)	16 GB - 12 TB					
Memory protection	ECC					
	Memory Mirroring su	ıpport				
	Advanced ECC DDDC (Double Device	re Data Correction)				
	DDDC (Dodbie Devic	e Data Correction)				
Memory notes	Up to 192 DIMM slot	Up to 192 DIMM slots per server within 4SB, each equipped with 2 Memory Mezzanine cards. 12TB will be available				
Memory modules notes	Memory modules wi	ll be delivered in set's of 2 DIM	MMs per order code			
Interfaces						
Graphics (15-pin)	4 x VGA (1x per SB)	4 x VGA (1x per SB)				
Management LAN (RJ45)	Dedicated Service LA	N port for MMB (10/100 Mbit	/s)			
Onboard or integrated Controller						
RAID controller	RAID 0/1 or RAID 5/6	controller integrated in Syste	m 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 TCP/IP acceleration, PXE boot via LAN from PXE server, iSCSI boot (also diskless) via onboard LAN				
Remote management controller	PQ2000 Managemer	nt Board (MMB)				
Fast IDE/Ultra DMA-100						
LAN Controller	Intel® I350-AM2		Intel® X540-AT2			
Service Processor						
General		(MMB), located on the rear sid	e of the system.			
Interfaces	- Local: 10/100M RJ4 - Remote: 10/100M R For Management	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				
I/O options						
Type L	_AN ports	based on	number of PCIe slots	Max. number		
Drive bays						
Storage drive bays	2.5-inch hot-plug SA	2.5-inch hot-plug SAS				
Storage drive bay configuration	Max. 8 x 2.5-inch wit	n max. 2 x Disk Units				
General system information						
Number of fans	6					
Fan configuration	hot plug	hot plug				
Fan notes	PSU cooling fan will	be used as chassis cooling faci	lity			
Operating panel						
Status LEDs	System status (orang	e / yellow)				
		Power (amber / green)				
	Identification (blue)					
RAS Features						
	5005 F66					
Standard	SDDC, ECC, redunda	nt fans and power supply				

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	
DC Illifastructure Management	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	445 700 400	
Rack (W x D x H)	445 x 782 x 438 mm	
Height Unit Rack	10 U	
9" rackmount	Yes	
Weight	Up to 143 kg	
Neight notes	Fully assembled Actual weight may vary depending on configuration	
 Environment	3 , , , , 3	
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, 74dB(80 Plus Platinum	
Sound power (LWAd; 1B = 10dB)	7.8B, 9.2B(80 Plus Platinum)	
Electrical values		
Power supply configuration	Up to 6 hot plug power supplies. Base unit equipped with 0 power supplies, redundancy as option.	
Max. input of single power supply	3200 W (240 V)	
Power supply efficiency	94 % (80 PLUS platinum)	
ower supply efficiency	89 %	
Hot-plug power supply redundancy	Yes	
Rated voltage range	200 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)	5,227 W	
Heat emission (max. configuration)	18817.2 kJ/h (17835.3 BTU/h)	
 Compliance		
Product	PRIMEQUEST	
Model	2800B2	

Compliance	
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

Warranty Product Support Services - the pe Spare Parts availability	rfect extension 5 years
Communication, Network	InfiniBand HCA 2 x 56 Gbit/s PCle 3.0 x8 QSFP for the US market max. one IB HCA 56Gb controller can be installed (Mellanox)
	InfiniBand HCA 1 x 56 Gbit/s PCle 3.0 x8 QSFP for the US market max. one IB HCA 56Gb controller can be installed (Mellanox)
	Ethernet Ctrl. 4 x 1 Gbit/s PCle 2.1 x4 RJ45 (Intel®)
	Ethernet Ctrl. 2 x 1 Gbit/s PCle 2.1 x4 RJ45 (Intel®)
	Ethernet Ctrl. 2 x 10 Gbit/s PCle 2.1 x8 RJ45 (Intel®)
Communication, Network	Ethernet Ctrl. 2 x 10 Gbit/s PCle 2.1 x8 RJ45 (Intel®)
	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)
	Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Qlogic QLE2672 LC-style
	Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Qlogic QLE2670 LC-style
TIME CHAINEI CONTONE	Fibre Channel Host Bus Adapter 2 x 16 Gbit/s Emulex LPe16002B LC-style
Fibre Channel controller	Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Emulex LPe12002 MiNF LC-style Fibre Channel Host Bus Adapter 1 x 16 Gbit/s Emulex LPe16000B LC-style
	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
	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.
	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
RAID Controller	RAID Ctrl FBU option with 25cm cable, RAID level: ,
	SAS Ctrl., SAS/SATA 12 Gbit/s, RAID level: ,
	PCIe-SSD AIC, 1.6 TB, 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, 800 GB, MLC, HHHL, Flash drive, 10 DWPD (drive writes per day)

Spare Parts availability

5 years

More information

In addition to Fujitsu PRIMEQUEST 2800B2 Business Critical, 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 2800B2 Business 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-2800b2/index.html

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