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.

**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 innovative 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

<table>
<thead>
<tr>
<th>Main Features</th>
<th>Benefits</th>
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<tbody>
<tr>
<td><strong>Operational efficiency</strong></td>
<td>Unity of x86 efficiency and flexibility with mission-critical availability</td>
</tr>
<tr>
<td>- Combines x86 industry standard with mission-critical features</td>
<td>- Lower license fees and software maintenance costs for Oracle databases</td>
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<td>- Eliminate costs related to the UNIX world</td>
<td>- Flexible platform to best meet individual requirements</td>
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<td>- New levels of energy efficiency</td>
<td>- Business continuity ensured even if there is a failure in one of the partitions</td>
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<td><strong>Mission critical uptime leads to highest availability values in the x86 industry standard</strong></td>
<td>- Its built-in error prevention/correction and self-healing capabilities result in outstanding platform reliability</td>
</tr>
<tr>
<td>- Different partitioning available: From software partitioning to completely isolated physical partitioning (PPAR)</td>
<td>- 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</td>
</tr>
<tr>
<td>- Up to two physical partitions (PPAR): Failures of one partition do not influence other partitions</td>
<td>- Unprecedented performance and memory capacity for demanding corporate databases, in-memory solutions and mission-critical applications</td>
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<tr>
<td>- Active reserved system board for fast automatic recovery of services, in many cases without downtime</td>
<td>- I/O throughput ensured</td>
</tr>
<tr>
<td>- Flexible I/O ensures availability of PCIe devices</td>
<td>- Efficient usage of available resources and simplified resource management without any need for restarts</td>
</tr>
<tr>
<td>- Almost everything is redundant</td>
<td>- Online maintenance</td>
</tr>
<tr>
<td>- Online maintenance</td>
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</table>
Technical details

Mainboard type  up to 2 x Systemboard
Chipset  Intel® C104 Scalable Memory Buffer (Advanced) 
         Intel® C602 J
Processor quantity and type  1 - 4 x Intel® Xeon® processor E7-8800 v2 product family / Intel® Xeon® processor E7-4800 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 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 when 64GB LRDIMM module will shipped.
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

<table>
<thead>
<tr>
<th>Type</th>
<th>LAN ports</th>
<th>based on</th>
<th>number of PCIe slots</th>
<th>Max. number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive bays</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Storage drive bays</td>
<td>2.5-inch hot-plug SAS</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Storage drive bay configuration</td>
<td>Max. 16 x 2.5-inch</td>
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</tbody>
</table>

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  

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  
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 124 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  

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)  
3,744 W
**Components**

**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 Host Bus Adapter 2 x 16 Gbit/s Emulex LPe16002B 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
- **Product Support Services - the perfect extension**
- **Service Lifecycle**: 5 years after end of product life
- **Service Weblink**: [www.fujitsu.com/support](http://www.fujitsu.com/support)
More information

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.

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

Software
www.fujitsu.com/software/

Learn more about FUJITSU Server PRIMEQUEST 2400E Mission Critical, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

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

Contact
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Website: www.fujitsu.com
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