

# Data Sheet

## FUJITSU Server PRIMEQUEST 3800E2 Rack Server

### Redefining mission-critical server architecture

Combining the power of Intel® Xeon® Processor Scalable Family, the standard specifications of Microsoft Windows and Linux operating systems and the wealth of market solutions with innovative RAS features for highest availability and business continuity, FUJITSU Server PRIMEQUEST systems provide new levels of operational efficiency for business and mission critical computing with truly open standards and 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, while preserving all the RAS qualities for maximum uptime.

#### PRIMEQUEST 3800E2

The FUJITSU Server PRIMEQUEST 3800E2 is purpose-built to optimize efficiency while maximizing performance and uptime in the most demanding mission-critical environments. It unifies the economic and flexibility benefits of x86 industry standard systems with mission-critical uptime features. The PRIMEQUEST 3800E2 dramatically simplifies server architecture for mission-critical computing and comes in a compact 7U form factor. This octo-socket server features the latest Intel® Xeon® Platinum processors with up to 28 cores per processor for a total of 224 cores and delivers superior compute performance leading to efficient business results. With high memory capacity of up to 24TB (DDR4 only) or 36TB with Intel® Optane™ DC Persistent Memory, the system can support large amounts of data for in-memory databases such as SAP HANA® and Microsoft SQL Server 2017, thereby making it the right choice for the most complex mission-critical workloads in big

data processing environments. The PRIMEQUEST 3800E2 provides enhanced performance in a significantly smaller form factor, resulting in lower power consumption and helps reduce the environmental footprint in a data center leading to significant cost savings. Moreover, the advanced reliability, availability and serviceability (RAS) features makes this server a robust and cost-effective solution for mission-critical environments. Customers running SAP, financial or big data applications 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. The PRIMEQUEST 3800E2 is an ideal choice for high-volume, high-value workloads such as online transaction processing (OLTP), batch processing, and database applications. Mission-critical features of the 3800E2 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 physical hardware partitioning (PPAR). With Reserved System Board, recovery from System Board failures happens in a matter of minutes.



# Features & Benefits

| Main Features   | Benefits   |
|---|--|
| <p><b>Dynamic, scalable platform for the most demanding mission-critical environments</b></p> <ul style="list-style-type: none"><li>■ 8x Intel® Xeon® Platinum/Gold processors with up to 224 cores. Huge memory capacity of 24TB (DDR4 only) or 36TB with Intel® Optane™ DC Persistent Memory. Many I/O expansion options for up to 56 PCIe slots. Compact 7U form-factor. 'Glue-less' design, no external UPI cables. Economic scaling from 1 to 8 sockets.</li></ul> <p><b>Mission critical uptime leads to highest availability values in the x86 industry standard</b></p> <ul style="list-style-type: none"><li>■ Different partitioning available: From software partitioning to completely isolated physical partitioning (PPAR). Up to four physical partitions (PPAR): Failures of one partition do not influence other partitions. Active reserved system board for fast automatic recovery of services. Flexible I/O ensures availability of PCIe devices. Almost everything is redundant.</li></ul> <p><b>High serviceability</b></p> <ul style="list-style-type: none"><li>■ Smart architecture with high serviceability.</li></ul> <p><b>Cost efficiency for your data center</b></p> <ul style="list-style-type: none"><li>■ Combines x86 industry standard with mission-critical features. Compact 7U form-factor. The iRMC S5 delivers optimal administration across the lifecycle.</li></ul> | <ul style="list-style-type: none"><li>■ Unprecedented performance and memory capacity for high-volume, high-value workloads such as online transaction processing (OLTP) and database applications. Cost-efficient 7U chassis packs superior performance in an economic, space-saving footprint.</li><li>■ Business continuity ensured even if there is a failure in one of the partitions. Built-in error prevention/correction and self-healing capabilities result in outstanding platform reliability.</li><li>■ All serviceable system modules can be accessed from the front or rear of the system without any cabling hassle. Online maintenance.</li><li>■ Unity of x86 efficiency and flexibility with mission-critical availability; Eliminate costs related to the UNIX world. Enhanced performance in a significantly smaller form factor.</li></ul> |

# Technical details

## PRIMEQUEST 3800E2

|                             |  |
|-----------------------------|--|
| Mainboard type              | up to 4 x System boards  |
| Chipset                     | Intel® C621  |
| Processor quantity and type | up to 8 x Intel® Xeon® Gold 6xxx processor / Intel® Xeon® Platinum 8xxx processor  |
| Intel® Xeon® Gold Processor | Intel® Xeon® Gold 6222V (20C, 1.80 GHz, TLC: 27.5 MB, Turbo: 2.40 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 115 W, AVX Base 1.60 GHz, AVX Turbo 2.40 GHz)  |
|                             | Intel® Xeon® Gold 6226 (12C, 2.70 GHz, TLC: 19.25 MB, Turbo: 3.50 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 125 W, AVX Base 2.30 GHz, AVX Turbo 3.10 GHz)  |
|                             | Intel® Xeon® Gold 6230 (20C, 2.10 GHz, TLC: 27.5 MB, Turbo: 2.80 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 125 W, AVX Base 1.60 GHz, AVX Turbo 2.40 GHz)   |
|                             | Intel® Xeon® Gold 6234 (8C, 3.30 GHz, TLC: 24.75 MB, Turbo: 4.00 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 130 W, AVX Base 2.80 GHz, AVX Turbo 3.70 GHz)   |
|                             | Intel® Xeon® Gold 6238 (22C, 2.10 GHz, TLC: 30.25 MB, Turbo: 3.70 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 140 W, AVX Base 1.70 GHz, AVX Turbo 2.50 GHz)  |
|                             | Intel® Xeon® Gold 6238L (22C, 2.10 GHz, TLC: 30.25 MB, Turbo: 3.70 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 140 W, AVX Base 2.70 GHz, AVX Turbo 3.40 GHz) |
|                             | Intel® Xeon® Gold 6238M (22C, 2.10 GHz, TLC: 30.25 MB, Turbo: 3.70 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 140 W, AVX Base 2.70 GHz, AVX Turbo 3.40 GHz) |
|                             | Intel® Xeon® Gold 6240 (18C, 2.60 GHz, TLC: 24.75 MB, Turbo: 3.30 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 150 W, AVX Base 2.00 GHz, AVX Turbo 2.80 GHz)  |
|                             | Intel® Xeon® Gold 6240L (18C, 2.60 GHz, TLC: 24.75 MB, Turbo: 3.30 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 150 W, AVX Base 2.00 GHz, AVX Turbo 2.80 GHz) |
|                             | Intel® Xeon® Gold 6240M (18C, 2.60 GHz, TLC: 24.75 MB, Turbo: 3.30 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 150 W, AVX Base 2.00 GHz, AVX Turbo 2.80 GHz) |
|                             | Intel® Xeon® Gold 6242 (16C, 2.80 GHz, TLC: 22 MB, Turbo: 3.50 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 150 W, AVX Base 2.30 GHz, AVX Turbo 3.10 GHz)     |
|                             | Intel® Xeon® Gold 6244 (8C, 3.60 GHz, TLC: 24.75 MB, Turbo: 4.30 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 150 W, AVX Base 3.00 GHz, AVX Turbo 3.90 GHz)   |
|                             | Intel® Xeon® Gold 6246 (12C, 3.30 GHz, TLC: 24.75 MB, Turbo: 4.10 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 165 W, AVX Base 2.90 GHz, AVX Turbo 3.80 GHz)  |
|                             | Intel® Xeon® Gold 6248 (20C, 2.50 GHz, TLC: 27.5 MB, Turbo: 3.20 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 150 W, AVX Base 1.90 GHz, AVX Turbo 2.80 GHz)   |
|                             | Intel® Xeon® Gold 6252 (24C, 2.10 GHz, TLC: 35.75 MB, Turbo: 2.80 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 150 W, AVX Base 1.70 GHz, AVX Turbo 2.40 GHz)  |
|                             | Intel® Xeon® Gold 6254 (18C, 3.10 GHz, TLC: 24.75 MB, Turbo: 3.90 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 200 W, AVX Base 2.70 GHz, AVX Turbo 3.40 GHz)  |
|                             | Intel® Xeon® Gold 6262V (24C, 1.90 GHz, TLC: 33 MB, Turbo: 2.50 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 135 W, AVX Base 1.60 GHz, AVX Turbo 2.80 GHz)    |

|  |  |
|--|--|
| <b>Intel® Xeon® Platinum Processor</b> | Intel® Xeon® Platinum 8253 (16C, 2.20 GHz, TLC: 22 MB, Turbo: 2.50 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 125 W, AVX Base 1.70 GHz, AVX Turbo 2.00 GHz)               |
|  | Intel® Xeon® Platinum 8256 (4C, 3.80 GHz, TLC: 16.5 MB, Turbo: 3.90 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 105 W, AVX Base 3.30 GHz, AVX Turbo 3.80 GHz)              |
|  | Intel® Xeon® Platinum 8260 (24C, 2.40 GHz, TLC: 35.75 MB, Turbo: 3.10 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 165 W, AVX Base 1.90 GHz, AVX Turbo 2.60 GHz)            |
|  | Intel® Xeon® Platinum 8260L (24C, 2.40 GHz, TLC: 35.75 MB, Turbo: 3.10 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 165 W, AVX Base 1.90 GHz, AVX Turbo 2.60 GHz)           |
|  | Intel® Xeon® Platinum 8260M (24C, 2.40 GHz, TLC: 35.75 MB, Turbo: 3.10 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 165 W, AVX Base 1.90 GHz, AVX Turbo 2.60 GHz)           |
|  | Intel® Xeon® Platinum 8268 (24C, 2.90 GHz, TLC: 35.75 MB, Turbo: 3.50 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 205 W, AVX Base 2.40 GHz, AVX Turbo 3.00 GHz)            |
|  | Intel® Xeon® Platinum 8270 (26C, 2.70 GHz, TLC: 35.75 MB, Turbo: 3.40 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 205 W, AVX Base 2.20 GHz, AVX Turbo 2.90 GHz)            |
|  | Intel® Xeon® Platinum 8276 (28C, 2.20 GHz, TLC: 38.5 MB, Turbo: 3.00 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 165 W, AVX Base 1.70 GHz, AVX Turbo 2.60 GHz)             |
|  | Intel® Xeon® Platinum 8276L (28C, 2.20 GHz, TLC: 38.5 MB, Turbo: 3.00 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 165 W, AVX Base 1.70 GHz, AVX Turbo 2.60 GHz)            |
|  | Intel® Xeon® Platinum 8276M (28C, 2.20 GHz, TLC: 38.5 MB, Turbo: 3.00 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 165 W, AVX Base 1.70 GHz, AVX Turbo 2.60 GHz)            |
|  | Intel® Xeon® Platinum 8280 (28C, 2.70 GHz, TLC: 38.5 MB, Turbo: 3.30 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 205 W, AVX Base 2.20 GHz, AVX Turbo 2.90 GHz)             |
|  | Intel® Xeon® Platinum 8280L (28C, 2.70 GHz, TLC: 38.5 MB, Turbo: 3.30 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 205 W, AVX Base 2.20 GHz, AVX Turbo 2.90 GHz)            |
|  | Intel® Xeon® Platinum 8280M (28C, 2.70 GHz, TLC: 38.5 MB, Turbo: 3.30 GHz, 10.4 GT/s, Mem bus: 2,933 MHz, 205 W, AVX Base 2.20 GHz, AVX Turbo 2.90 GHz)            |
| <b>Memory slots</b>                    | 96 Max. 24 TB (DDR4 DIMM 2,933MHz only), Max. 36 TB with DCPMM (DDR-T 2,666MHz).   |
| <b>Memory slot type</b>                | DIMM (DDR4 / DDR-T for non-volatile memory modules)  |
| <b>Memory capacity (min. - max.)</b>   | 32 GB - 36 TB  |
| <b>Memory protection</b>               | ECC<br>Advanced ECC<br>Memory Mirroring support<br>Address Range Memory Mirroring support<br>Rank sparing memory support<br>Memory Scrubbing<br>SDDC+1<br>ADDDC-MR |
| <b>Memory notes</b>                    | Up to 96 DIMM slots per server within 4 system boards.   |
| <b>Standard memory modules</b>         | 32 GB (2 module(s) 16 GB) DDR4, registered, ECC, 2,933 MT/s, PC4-2933, DIMM, 1Rx4  |
|  | 64 GB (2 module(s) 32 GB) DDR4, registered, ECC, 2,933 MT/s, PC4-2933, DIMM, 2Rx4  |
|  | 128 GB (2 module(s) 64 GB) DDR4, registered, ECC, 2,933 MT/s, PC4-2933, DIMM, 2Rx4   |
|  | 128 GB (2 module(s) 64 GB) DDR4, registered, ECC, 2,933 MT/s, PC4-2933, LRDIMM, 4Rx4   |
|  | 256 GB (2 module(s) 128 GB) DDR4 3DS, registered, ECC, 2,933 MT/s, PC4-2933, LRDIMM, 8Rx4  |
|  | 512 GB (2 module(s) 256 GB) DDR4 3DS, registered, ECC, 2,933 MT/s, PC4-2933, LRDIMM, 8Rx4  |
| <b>Non-volatile memory modules</b>     | 128 GB (1 module(s) 128 GB) DDR-T, registered, ECC, 2,666 MT/s, NVM, DCPMM, 1Rx4   |
|  | 256 GB (1 module(s) 256 GB) DDR-T, registered, ECC, 2,666 MT/s, NVM, DCPMM, 2Rx4   |
|  | 512 GB (1 module(s) 512 GB) DDR-T, registered, ECC, 2,666 MT/s, NVM, DCPMM, 4Rx4   |
| <b>Memory modules notes</b>            | DDR4 DIMM will be delivered in set's of 2 DIMMs per order code.<br>Single DCPMM will be delivered per order code.  |
| <b>Interfaces</b>                      |  |
| <b>USB 3.0 ports</b>                   | 4 x USB per Partition  |
| <b>Graphics (15-pin)</b>               | 1 x VGA per Partition  |
| <b>Management LAN (RJ45)</b>           | Dedicated Service LAN port for MMB (10/100 Mbit/s)   |

**Onboard or integrated Controller**

|                              |                               |
|------------------------------|-------------------------------|
| LAN controller               | 2 x 10 Gbit/s Ethernet        |
| Remote management controller | PQ3000 Management Board (MMB) |

**Slots**

|                     |  |
|---------------------|--|
| PCI-Express 3.0 x8  | 12 x Low profile (3slots / IOU, Max. 4 IOUs / Chassis) |
| PCI-Express 3.0 x16 | 4 x Low profile (1slot / IOU, Max. 4 IOUs / Chassis)   |

**Service Processor**

|            |  |
|------------|--|
| General    | Management Board (MMB), located on the rear side of the system.<br>2nd MMB as option   |
| Interfaces | For Maintenance:<br>- Local: 10/100M RJ45 for local maintenance.<br>- Remote: 10/100M RJ45 for REMCS, AIS-Connect, ACA and ServiceLink connection (Remote monitoring service).<br>For Management<br>- 0/1 10M/100M/1G RJ45 |
| Redundancy | 2nd MMB as option  |

**Drive bays**

|                                 |                       |
|---------------------------------|-----------------------|
| Storage drive bays              | 2.5-inch hot-plug SAS |
| Storage drive bay configuration | Max. 24 x 2.5-inch    |

**General system information**

|                   |          |
|-------------------|----------|
| Number of fans    | 6        |
| Fan configuration | hot-plug |

**Operating panel**

|             |   |
|-------------|---|
| Status LEDs | System status (orange / yellow)<br>Power (amber / green)<br>Identification (blue) |
|-------------|---|

**RAS Features**

|                  |   |
|------------------|---|
| Standard         | SDDC+1, ECC, redundant fans and power supply  |
| Advanced         | Intra-socket memory mirroring, MCA, ADDDC-MR  |
| Mission-Critical | Physical Partition, Extended Partition, Reserved Systemboard, flex IO, redundant MMB, hot-plug PCIe |

**Operating Systems and Virtualization Software**

|                               |   |
|-------------------------------|---|
| Operating system notes        |   |
| Operating system release link | <a href="http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473">http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473</a> |

**Infrastructure and Server Management**

|                              |   |
|------------------------------|---|
| DC Infrastructure Management | Infrastructure Manager (ISM)<br>Essential<br>Advanced   |
| Server Management            | Infrastructure Manager (ISM)<br>Essential<br>Advanced<br>ServerView Suite   |
| Management notes             | For further information regarding ISM and ServerView Suite see dedicated data sheets.   |
| Manageability link           | <a href="http://docs.ts.fujitsu.com/dl.aspx?id=9e92297a-16fb-4c69-8559-e38e7b42fee6">http://docs.ts.fujitsu.com/dl.aspx?id=9e92297a-16fb-4c69-8559-e38e7b42fee6</a> |

**Dimensions / Weight**

|                  |  |
|------------------|--|
| Rack (W x D x H) | 445 x 820 x 308 mm   |
| Height Unit Rack | 7 U  |
| 19" rackmount    | Yes  |
| Weight           | Up to 110 kg   |
| Weight notes     | Fully assembled<br>Actual weight may vary depending on configuration |

**Environment**

|                               |   |
|-------------------------------|---|
| Operating ambient temperature | 5 - 35 °C (5 - 40 °C with Advanced Thermal Design option) |
|-------------------------------|---|

**Environment**

|                               |   |
|-------------------------------|---|
| Operating relative humidity   | 10 - 85 % (non condensing)  |
| Maximum altitude              | 3.000 m   |
| Operating environment         | FTS 04230 – Guideline for Data Center (installation specification)  |
| Operating environment link    | <a href="http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe">http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe</a> |
| Noise emission                | Measured according to ISO 7779 and declared according to ISO 9296   |
| Sound pressure (LpAm)         | 61dB  |
| Sound power (LWAd; 1B = 10dB) | 8.0B  |

**Electrical values**

|                                      |   |
|--------------------------------------|---|
| Power supply configuration           | Up to 4 hot-plug power supplies.<br>Minimum 2 power supplies, redundancy as option. |
| Power supply efficiency              | 94 % (80 PLUS platinum)   |
| Hot-plug power supply redundancy     | Yes   |
| Rated voltage range                  | 200 V - 240 V   |
| Rated frequency range                | 47 Hz - 63 Hz   |
| Rated current max.                   | 16A   |
| Rated current in basic configuration | 12.6A   |
| Active power (max. configuration)    | 5,940 W   |
| Heat emission (max. configuration)   | 21384.0 kJ/h (20268.1 BTU/h)  |

**Compliance**

|                  |   |
|------------------|---|
| Product          | PRIMEQUEST 3800E2   |
| Model            | MCKyAxxxx   |
| Global           | CB<br>RoHS (Substance limitations in accordance with global RoHS regulations)<br>WEEE (Waste electrical and electronic equipment) - planned   |
| Europe           | CE Class A *  |
| Japan            | VCCI  |
| Compliance link  | <a href="https://sp.ts.fujitsu.com/sites/certificates">https://sp.ts.fujitsu.com/sites/certificates</a>   |
| 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.<br>* Warning:<br>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, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise |
|                  | HDD SAS, 12 Gb/s, 900 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise |
|                  | HDD SAS, 12 Gb/s, 600 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise |
|                  | HDD SAS, 12 Gb/s, 600 GB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise |
|                  | HDD SAS, 12 Gb/s, 300 GB, 15,000 rpm, 512n, hot-plug, 2.5-inch, enterprise |
|                  | HDD SAS, 12 Gb/s, 300 GB, 10,000 rpm, 512n, 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, 512e, hot-plug, 2.5-inch, enterprise |
|                  | HDD SAS, 12 Gb/s, 1.2 TB, 10,000 rpm, 512n, hot-plug, 2.5-inch, enterprise |

|                          |   |
|--------------------------|---|
| Solid-State-Drive        | SSD SAS, 12 Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years)   |
|                          | SSD SAS, 12 Gb/s, 800 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)  |
|                          | SSD SAS, 12 Gb/s, 400 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years)   |
|                          | SSD SAS, 12 Gb/s, 400 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)  |
|                          | SSD SAS, 12 Gb/s, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 2.3 DWPD (Drive Writes Per Day for 5 years)  |
|                          | SSD SAS, 12 Gb/s, 3.2 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 2.3 DWPD (Drive Writes Per Day for 5 years)  |
|                          | SSD SAS, 12 Gb/s, 1.6 TB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years)   |
|                          | SSD SAS, 12 Gb/s, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)  |
|                          | SSD M.2 SATA, 6 Gb/s, 480 GB, non hot plug, enterprise, 1.4 DWPD (Drive Writes Per Day for 5 years)   |
|                          | SSD M.2 SATA, 6 Gb/s, 240 GB, non hot plug, enterprise, for VMware  |
|                          | SSD M.2 SATA, 6 Gb/s, 240 GB, non hot plug, enterprise, 1.4 DWPD (Drive Writes Per Day for 5 years)   |
|                          | Dual microSD 64GB Enterprise  |
| PCIe SSD                 | PCIe-SSD SFF, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)   |
|                          | PCIe-SSD SFF, 3.2 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)   |
|                          | PCIe-SSD SFF, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)   |
|                          | PCIe-SSD AIC, 4 TB, Mixed-use, HHHL, Flash drive, 3 DWPD (Drive Writes Per Day for 5 years)   |
| SCSI / SAS Controller    | PCIe-SSD AIC, 2 TB, Mixed-use, HHHL, Flash drive, 3 DWPD (Drive Writes Per Day for 5 years)   |
|                          |   |
| RAID Controller          | LSI PSAS CP400e LP SAS Ctrl. 12 Gbit/s 8 ports ext. PCIe 3.0 x8   |
|                          | Fujitsu PRAID EP580i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 8 Gbit/s 16 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 8 GB, Optional FBU based on LSI SAS3516 |
|                          | Fujitsu PRAID EP540i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 8 Gbit/s 16 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 4 GB, Optional FBU based on LSI SAS3516 |
|                          | Fujitsu PRAID EP540e LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 4 GB, Optional FBU based on LSI SAS3516                     |
|                          | 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                     |
| Communication, Network   | Ethernet Ctrl. 1 x 100 Gbit/s PCIe 3.0 x16 QSFP28 ( Mellanox )  |
|                          | Ethernet Ctrl. 2 x 10 Gbit/s / 25 Gbit/s PCIe 3.0 x8 SFP28 ( Intel® )   |
|                          | Ethernet Ctrl. 2 x 10 Gbit/s / 25 Gbit/s PCIe 3.0 x8 SFP28 ( Mellanox )   |
|                          | Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 RJ45 ( Cavium )  |
|                          | Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 RJ45 ( Intel® )  |
|                          | Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 SFP+ ( Cavium )  |
|                          | Ethernet Ctrl. 2 x 10 Gbit/s PCIe 3.0 x8 SFP+ ( Intel® )  |
|                          | Ethernet Ctrl. 2 x 1 Gbit/s PCIe 2.1 x4 RJ45 ( Intel® )   |
| Communication, Network   | Ethernet Ctrl. 2 x 40 Gbit/s PCIe 3.0 x16 QSFP ( Mellanox )   |
|                          | Ethernet Ctrl. 4 x 10 Gbit/s ; 1 Gbit/s PCIe 3.0 x8 RJ45 ( Intel® )   |
|                          | Ethernet Ctrl. 4 x 10 Gbit/s PCIe 3.0 x8 SFP+ ( Intel® )  |
| Fibre Channel controller | Ethernet Ctrl. 4 x 1 Gbit/s PCIe 2.1 x4 RJ45 ( Intel® )   |
|                          | Fibre Channel Host Bus Adapter 1 x 16 Gbit/s PCIe 3.0 x8 LC-style ( Emulex )  |
| Fibre Channel controller | Fibre Channel Host Bus Adapter 1 x 16 Gbit/s PCIe 3.0 x8 LC-style ( Qlogic )  |
|                          | Fibre Channel Host Bus Adapter 1 x 32 Gbit/s PCIe 3.0 x8 LC-style ( Cavium )  |
|                          | Fibre Channel Host Bus Adapter 1 x 32 Gbit/s PCIe 3.0 x8 LC-style ( Emulex )  |
|                          | Fibre Channel Host Bus Adapter 2 x 16 Gbit/s PCIe 3.0 x8 LC-style ( Emulex )  |
|                          | Fibre Channel Host Bus Adapter 2 x 16 Gbit/s PCIe 3.0 x8 LC-style ( Qlogic )  |
| Fibre Channel controller | Fibre Channel Host Bus Adapter 2 x 32 Gbit/s PCIe 3.0 x8 LC-style ( Cavium )  |
|                          | Fibre Channel Host Bus Adapter 2 x 32 Gbit/s PCIe 3.0 x8 LC-style ( Emulex )  |
| Communication, Network   | InfiniBand HCA 1 x 100 Gbit/s PCIe 3.0 x16 QSFP ( Mellanox )  |
|                          | Omni Path 1 x 100 Gbit/s PCIe 3.0 x16 QSFP ( Intel® )   |

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



# More information

## Fujitsu products, solutions & services

In addition to FUJITSU PRIMEQUEST 3800E2, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

### Fujitsu Portfolio

Build 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 offering. This allows customers to leverage 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/](http://www.fujitsu.com/global/products/computing/)

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

## More information

Learn more about Fujitsu PRIMEQUEST 3800E2, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

<http://www.fujitsu.com/global/products/computing/servers/mission-critical/primequest-3800e2/>

## 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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