Windows Server:
The operating system that bridges on-premises and cloud.
Find out, which data center infrastructure systems suit you best

Download our Fujitsu Value Calculator app!

The **Value Calculator** provides a comparison between your current PRIMERGY servers or ETERNUS storage systems and the current system generation. The results displayed include information on potential savings and performance improvements.

The **Product Finder** helps you to find a suitable server or storage system. After selecting some appropriate criteria, suitable PRIMERGY servers or ETERNUS storage systems are displayed with a brief description and further information.

The **Resource Center** keeps you up to date on Fujitsu server and storage systems, which is especially useful on the road. It is your central source of information with current case studies, news, white papers, benchmarks and much more.

The **Portfolio Overview** provides detailed insights on all industry-standard x86 PRIMERGY and mission-critical x86 PRIMEQUEST servers.
Be flexible. With the right foundation.

Fujitsu Server Systems

Intel® Xeon® Platinum processor
Digitalization: Your Data Center is the foundation
FUJITSU Business-Centric Data Center

We live in a world where people are constantly connected. As individuals we want more intuitive services. Be it large or small and medium-sized businesses, both must adapt to this rising demand and what it means for their ICT. It all depends on what you do with your IT. There can be no ‘one-size-fits-all’ approach to your data center. So we start with your business priorities then match the right mix of products, services and solutions. That way you get an end-to-end approach that can deliver what your enterprise demands. See how Fujitsu can help large or growing businesses achieve their business objectives.

Business-Centric COMPUTING
Fujitsu Business-Centric Computing will give you the servers you need to power any workload and changing business requirements.

Business-Centric STORAGE
Fujitsu ETERNUS Business-centric Storage supports your business better to help you achieve your goals.

Business-Centric INTEGRATED SYSTEMS
Building data center infrastructure is often complex and time-consuming. You’ll know the do-it-yourself approach can be risky and expensive. With Fujitsu Business-Centric Integrated Systems you can make the difference.
FUJITSU Server Products
Ensure your servers serve your business

FUJITSU is the leading ICT provider with an entire portfolio of IT products, solutions and services – from notebooks, tablets, PCs and data center solutions up to managed services and cloud solutions. FUJITSU servers provide the basis to set up the most powerful and flexible data center solutions for companies of all sizes, across all industries and for any type of workload. This includes industry standard PRIMERGY servers, mission-critical PRIMEQUEST systems and SPARC/UNIX servers to be able to offer the right combination of systems, solutions and know-how to guarantee maximum productivity, efficiency and flexibility.

Optimized x86 server portfolio to power any workload and business demand

Perfect for SMB’s, branches and office environments
Core Business and Data Demanding Applications
HPC, Cloud, Technical Computing and Deep Learning
Business and Mission-critical environments
Operation and Management

Robust and cost-efficient servers characterized by simple and quiet operations
Versatile rack servers with leading efficiency and performance
Modular and density-optimized servers to scale efficiently
Business continuity for permanent data access and use cases such as in-memory computing
Efficient operation and management of IT infrastructures and equipment
Fujitsu Server PRIMERGY Tower and Rack Systems

The efficient, flexible foundation for business growth

Quickly changing business requirements need an IT infrastructure that guarantees maximum productivity, cost efficiency, agility and are easy to integrate in any existing environment. Be it a department server or a large data center solution, Fujitsu Server PRIMERGY systems and solutions can meet these requirements for companies of all sizes and provide a cost-effective and adaptable range of services.

### PRIMERGY TX Server

<table>
<thead>
<tr>
<th>Type</th>
<th>Specifications</th>
<th>Products</th>
<th>Processor</th>
<th>Memory</th>
<th>Storage</th>
</tr>
</thead>
</table>
| Mono                  | Essential Workloads          |           | TX1310 M3                        | Intel® Xeon® E-2100, Core i3®, Pentium®, Celeron® | 4 – 64 GB  
4 DIMM DDR4 | 4 x 3.5” SATA                |
| Mono                  | Standard Workloads Compact   |           | TX1320 M4                        | Intel® Xeon® E-2100, Core i3®, Pentium®, Celeron® | 4 – 64 GB  
4 DIMM DDR4 | 2 x 3.5” SATA or 8 x 2.5” SATA/SAS |
| Mono                  | Compact                       |           | TX1330 M4                        | Intel® Xeon® E-2100, Core i3®, Pentium® | 4 – 64 GB  
4 DIMM DDR4 | 12 x 3.5” SATA/SAS or 24 x 2.5” SATA/SAS |
| Dual                  | Ultra-compact                 |           | TX2550 M5                        | 1-2 x Intel® Xeon® Scalable Family | 8 GB – 768 GB /1.5TB  
12 DIMM DDR4/DCPMM | 12 x 3.5” SATA/SAS or 32 x 2.5” SATA/SAS |

### PRIMERGY RX Server

<table>
<thead>
<tr>
<th>Type</th>
<th>Specifications</th>
<th>Products</th>
<th>Processor</th>
<th>Memory</th>
<th>Storage</th>
</tr>
</thead>
</table>
| Mono | Essential performance 1U (3 x PCI slots, 4 x HDDs) | RX1330 M4 | Intel® Xeon® E-2100, Core i3®, Pentium® | 4 – 64 GB  
4 DIMM DDR4 | 4 x 3.5” SATA/SAS or 10 x 2.5” SATA/SAS |
| Mono | Height units / scalability 4 x PCI slots, 4 x HDDs | RX2510 M2 | 1-2 x Intel® Xeon® Scalable Family | 16 GB – 384 GB  
24 DIMM DDR4 | 6 x 2.5” SATA/SAS |
| Mono | 2U / low 4 x PCI slots, 4 x HDDs/SSDs | RX2520 M5 | 1-2 x Intel® Xeon® Scalable Family | 4 – 768 GB  
12 DIMM DDR4 | 12 x 3.5” SATA/SAS or 24 x 2.5” SATA/SAS |
| Mono | 6 x PCI slots, up to 24 x HDDs/SSDs | RX2530 M5 | 1-2 x Intel® Xeon® Scalable Family | 8 GB – 3 TB/7.5TB  
24 DIMM DDR4/DCPMM | 4 x 3.5” SATA/SAS or 8x/10x 2.5” SATA/SAS/Pcie |
| Mono | Max. performance 4 x PCI slots, 10 x HDDs/SSDs | RX2540 M5 | 1-2 x Intel® Xeon® Scalable Family | 8 GB – 3 TB/7.5TB  
24 DIMM DDR4/DCPMM | 12 x 3.5” SATA/SAS or 28 x 2.5” SATA/SAS/Pcie |
| Quad | Max. memory expansion 8 x PCI slots, up to 16x HDDs/SSDs | RX4770 M5 | 2-4 Intel® Xeon® Scalable Family | 16 GB – 6 TB/15TB  
48 DIMM DDR4/DCPMM | 16 x 2.5” hot-plug SAS/SATA/Pcie |
FUJITSU Server PRIMERGY Scale-out Systems
Platform for cloud, HPC, and large scale-out computing

FUJITSU Server PRIMERGY CX scale-out systems are built for cloud computing scenarios, high performance computing, service providers and large server farms. They focus on providing large datacenters with massive scale-out x86 server power while at the same time delivering best economics for server density, energy consumption, heat optimization and lower overall operational costs. Massive scale-out x86 server power while at the same time delivering best economics for server density, energy consumption, heat optimization and lower overall operating costs.

Workload-specific power in a compact and modular form factor
The PRIMERGY CX400 M4 is a modular enclosure for the Fujitsu scale-out ecosystem that combines the density and efficiency of blade-like servers with the simplicity and cost benefits of rack-based systems.

### Use Cases

- VDI
- Virtualization
- Cloud
- Web Services
- HPC
- Technical Computing
- AI
- Deep Learning

### PRIMERGY CX Servers

<table>
<thead>
<tr>
<th>Use Cases</th>
<th>Specifications</th>
<th>Products</th>
<th>Processor</th>
<th>Memory</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>VDI</td>
<td>Chassis</td>
<td>CX400 M4</td>
<td>-</td>
<td>-</td>
<td>4 bays for nodes</td>
</tr>
<tr>
<td></td>
<td>2U / up to 24 x 2.5&quot; storage drives</td>
<td></td>
<td></td>
<td></td>
<td>Shared infrastructure</td>
</tr>
<tr>
<td></td>
<td>Redundant, hot-plug components</td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Cloud/HPC optimized server node</td>
<td>CX2550 M5</td>
<td>1-2 x Intel® Xeon® Scalable Family</td>
<td>8 - 2048 GB</td>
<td>Cost-optimized</td>
</tr>
<tr>
<td></td>
<td>All-round server node</td>
<td>CX2560 M5</td>
<td>1-2 x Intel® Xeon® Scalable Family</td>
<td>8 - 2048 GB</td>
<td>Air- or liquid cooling</td>
</tr>
<tr>
<td></td>
<td>HPC/VDI optimized server node</td>
<td>CX2570 M5</td>
<td>1-2 x Intel® Xeon® Scalable Family</td>
<td>8 - 2048 GB</td>
<td>6x 2.5&quot; storage drives</td>
</tr>
<tr>
<td></td>
<td>dynamicLoM + 2x PCIe, air-cooled</td>
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<tr>
<td></td>
<td>up to 4x GPU's</td>
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<td></td>
<td>liquid cooling</td>
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<tr>
<td></td>
<td>liquid cooling</td>
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</table>
FUJITSU Server PRIMEQUEST Systems
Scalable platform for business-critical and mission-critical applications

FUJITSU Server PRIMEQUEST systems offer unprecedented x86 performance and memory expandability for resource-intensive applications. By unifying the x86 industry standards with mission-critical features, PRIMEQUEST systems deliver availability levels similar to those of UNIX systems—yet with the cost advantages of an x86-based architecture.

 Superior performance and reliability for business-critical workloads with optimized economics
Featuring the latest Intel® Xeon® Processor Scalable Family with up to 28 cores per processor and fastest available DDR4 memory modules with 12TB total capacity, the PRIMEQUEST 3800B improves performance for in-memory databases such as SAP HANA® and real-time data analytics. Along with uncompromising performance, the PRIMEQUEST 3800B’s optimized economics in a compact 5U chassis and advanced RAS features that prevent errors in advance, make it the right choice for demanding corporate databases, in-memory solutions and business-critical applications.

Redefining mission-critical server architecture
FUJITSU Server PRIMEQUEST 3400E/3800E Mission Critical systems unify the economic and flexibility benefits of x86 industry standard servers with mission-critical uptime features. Featuring four/eight of the Intel® Xeon® Processor Scalable Family provided with up to 112/224 cores and up to 12TB DDR4 memory, the PRIMEQUEST 3400E/3800E provide unprecedented performance and memory capacity for demanding solutions. Along with uncompromising performance, the PRIMEQUEST 3400E/3800E dramatically simplify server architecture for mission-critical computing and come in an all-new compact 7U form factor. This enhanced performance in a significantly smaller form factor, results in lower power consumption and helps reduce the environmental footprint in a data center leading to significant cost savings. Moreover, mission critical features enable for an outstanding platform reliability with innovative error prevention and self-healing capabilities.

### Use Cases
- **Business-critical applications**
- **Transaction demanding workloads**
- **Big data applications**
- **In-memory databases**
- **Real-time data analytics**
- **High-volume, high-value workloads such as online transaction processing (OLTP), batch processing, and database applications**
- **In-memory databases**
- **Real-time data analytics**

### Products

<table>
<thead>
<tr>
<th>Type</th>
<th>Use Cases</th>
<th>Processor</th>
<th>Memory</th>
<th>Storage / PCI</th>
<th>RAS Features</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PRIMEQUEST 3800B2</strong></td>
<td><img src="image" alt="Octo" /></td>
<td><img src="image" alt="Up to 8x Intel® Xeon® Scalable Family Processor" /></td>
<td>16 GB - 24 TB / 36 TB</td>
<td>96 DIMM DDR4 / DCPMMM</td>
<td><strong>PRIMEQUEST 3800B2</strong>&lt;br&gt;<strong>SDDC+1, ECC, redundant fans and power supply</strong>&lt;br&gt;<strong>Intra-socket memory mirroring, MCA, ADDDC-MR</strong></td>
</tr>
<tr>
<td><strong>PRIMEQUEST 3x00E2</strong></td>
<td><img src="image" alt="Octo" /></td>
<td><img src="image" alt="Up to 8x Intel® Xeon® Scalable Family Processor" /></td>
<td>16 GB - 24 TB / 36 TB</td>
<td>96 DIMM DDR4 / DCPMMM</td>
<td><strong>PRIMEQUEST 3800E</strong>&lt;br&gt;<strong>Standard - SDDC+1, ECC, redundant fans and power supply</strong>&lt;br&gt;<strong>Advanced - Intra-socket memory mirroring, MCA, ADDDC-MR</strong>&lt;br&gt;<strong>Mission Critical - Physical Partition, Extended Partition, Reserved Systemboard, flexIO, Dynamic Reconfiguration, redundant MMB, hot-plug PCIe</strong></td>
</tr>
</tbody>
</table>
Your Fast Track to Data Center Infrastructures

FUJITSU Integrated System PRIMEFLEX

Watch now!

Intel® Xeon® Platinum processor
FUJITSU Integrated System PRIMEFLEX
Your Fast Track to Data Center Infrastructures

FUJITSU Integrated System PRIMEFLEX is a pre-integrated and pre-tested combination of servers, storage, network connectivity and software. PRIMEFLEX includes both ‘ready to run’ systems which are pre-installed at the factory, and customizable reference architectures. This reduces complexity, project time, risk and cost, while increasing operational efficiency. Flexible services options such as consulting, design, on-site deployment, integration into existing environments, migration services and overall support delivered by Fujitsu or its partners enable worry-free operation. Pay-as-you go financing options are also available. FUJITSU Integrated System PRIMEFLEX addresses business-critical use cases, such as virtualization and cloud, analytics including Big Data, High-Performance Computing and Artificial Intelligence, as well as SAP environments.

Virtualization and Cloud

**PRIMEFLEX for VMware vSphere**
Converged system for deploying VMware vSphere based infrastructure with external all flash or hybrid storage from FUJITSU. It includes multiple configurations varying in size, scales from 2 up to 64 servers and can support up to 2800 VMs.

- **Compute:** PRIMERGY RX
- **Storage:** ETERNUS DX / AF
- **Network:** Extreme Networks
- **Optional:** Broadcom
- **Software:** VMware vSphere
- **Optional:** VMware Horizon
- **Management:** Fujitsu ISM

**PRIMEFLEX for VMware vSAN**
Hyper-converged system based on VMware software-defined server and storage technology delivered by the VMware HCI software stack. The system is available in various vSAN Ready Nodes configurations with pre-installed software scaling from 2 to 64 server nodes.

- **Compute / Storage:** PRIMERGY RX / CX
- **Software:** VMware vSphere, vSAN
- **Optional:** VMware Horizon
- **Management:** Fujitsu ISM (optional)

**PRIMEFLEX for VMware Cloud Foundation**
Hyper-converged system for deploying a VMware-based software-defined data center infrastructure. The system is available in various configurations from 4 to 240 server nodes.

- **Compute / Storage:** PRIMERGY RX
- **Network:** Extreme Networks
- **Software:** VMware Cloud Foundation
- **Optional:** VMware Horizon, vRealize
- **Management:** Fujitsu ISM

**PRIMEFLEX for Microsoft Storage Spaces Direct**
Hyper-converged system based on Microsoft software-defined server and storage technology integrated in Windows Server 2016. The system is available in various validated and certified configurations scaling from 2 to 16 server nodes.

- **Compute / Storage:** PRIMERGY RX
- **Software:** Windows Server Datacenter Edition (Hyper-V and Storage Spaces Direct)
- **Optional:** Microsoft SystemCenter
FUJITSU Integrated System PRIMEFLEX
Your Fast Track to Data Center Infrastructures

FUJITSU Integrated System PRIMEFLEX is a pre-integrated and pre-tested combination of servers, storage, network connectivity and software. PRIMEFLEX includes both ‘ready to run’ systems which are pre-installed at the factory, and customizable reference architectures. This reduces complexity, project time, risk and cost, while increasing operational efficiency. Flexible services options such as consulting, design, on-site deployment, integration into existing environments, migration services and overall support delivered by Fujitsu or its partners enable worry-free operation. Pay-as-you go financing options are also available. FUJITSU Integrated System PRIMEFLEX addresses business-critical use cases, such as virtualization and cloud, analytics including Big Data, High-Performance Computing and Artificial Intelligence, as well as SAP environments.

Virtualization and Cloud

PRIMEFLEX for Microsoft Azure Stack

PRIMEFLEX for Microsoft Azure Stack is an integrated system that brings the agility and fast-paced innovation of Microsoft's Azure cloud to your on-premises data center.

Compute: PRIMERGY RX
Network: Fujitsu PSWITCH
Software: Microsoft Azure stack
Optional: Microsoft Azure Services
Management: Fujitsu ISM


**FUJITSU Integrated System PRIMEFLEX**  
Addressing our customers’ needs

<table>
<thead>
<tr>
<th>PRIMEFLEX for SAP HANA</th>
<th>PRIMEFLEX for SAP Landscapes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SAP-validated infrastructure solution for the SAP HANA® software.</strong> It is based on Fujitsu PRIMERGY and PRIMEQUEST servers optimized for in-memory technology. The complementary on-site services ensure a fast and non-disruptive implementation and operation at the customer site.</td>
<td>Powered by FlexFrame Orchestrator management software, the set-up of infrastructures optimized for SAP applications and databases is simplified and a more effective operation enabled. The pre-defined, pre-integrated and pre-tested combination of servers, storage, network connectivity and software ensure highest quality and fast time to value.</td>
</tr>
</tbody>
</table>

| **Compute:** PRIMERGY / PRIMEQUEST | **Compute:** PRIMERGY / PRIMEQUEST |
| **Storage:** ETERNUS / NetApp / TDI support (opt. for single-node) | **Storage:** NetApp for shared image; ETERNUS / NetApp for database |
| **Network:** Broadcom, Cisco (multi-node only) | **Network:** Cisco |
| **Software:** SUSE or Red Hat Linux / Optional: VMware vSphere | **Software:** FUJITSU FlexFrame Orchestrator, SUSE Linux |
| **Optional:** VMware vSphere, extension packs (e.g. from LNW Soft) | **Optional:** |
Storage unchained

FUJITSU ETERNUS Storage

Intel® Xeon® Platinum processor

Watch now!

Storage Unchained

Transform with Flash
In the storage area you can rely on a well synchronized portfolio – Business-Centric storage at its best from a single provider with more than 50 years experience in storage. Fujitsu provides ETERNUS AF all-flash and ETERNUS DX hybrid storage systems, ETERNUS LT tape libraries and ETERNUS CS data protection appliances, which allow customers to flexibly manage their increasing data volumes at less costs of growth, to benefit from a very reliable architecture as well from radically simplified operation.

**All-flash and Hybrid Storage Systems**
Combining leading performance architecture with automated quality of service management the ETERNUS AF and ETERNUS DX systems provide powerful features for digital growth, efficiency and continuity.

**Data Protection Appliances**
ETERNUS CS200c is an appliance with integrated backup software, ETERNUS CS800 offers deduplication for cost-efficient backup-to-disk and ETERNUS CS8000 provides enterprises with complete consolidation of backup and archiving infrastructures.

**Tape Storage Systems**
The affordable ETERNUS LT tape systems offer impressive scalability and reliability. They meet SMB requirements and are certified for market-leading backup and archiving software.

**Leading performance increases system utilization and consolidation resulting in a faster ROI**

**ETERNUS CS data protection appliances radically simplify backup and archive infrastructures by aligning storage resources with business priorities.**

**Highly automated, simple and remote operation without any demand for local expert skills**
## FUJITSU ETERNUS Storage
Online storage made easy

### ETERNUS AF all-flash arrays

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Product</th>
<th>Max. capacity</th>
<th>Host interfaces</th>
<th>Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Drives</td>
<td>AF250</td>
<td>max. 48, 1475 TB raw / 7375 TB effective*</td>
<td>8 x FC 32G / 8 x FC 16G / 8 x iSCSI 10G</td>
<td>All-in FlashPack (Configuration, Management and Administration, Local and Remote Copy, Automated Quality of Service, Deduplication and/or Compression)</td>
</tr>
<tr>
<td></td>
<td>AF650</td>
<td>max. 192, 5898 TB raw / 29491 TB effective*</td>
<td>16 x FC 32G / 32 x FC 16G / 16 x iSCSI 10G</td>
<td>RAID Protection and Redundancy; ETERNUS SF Management Software offering Local Advanced Copy, Thin Provisioning, Administration, Local and Remote Copy, Automated Quality of Service, Deduplication and/or Compression</td>
</tr>
</tbody>
</table>

### ETERNUS DX hybrid storage systems

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Product</th>
<th>Max. capacity</th>
<th>Host interfaces</th>
<th>Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Drives</td>
<td>DX60</td>
<td>max. 4 host ports / 96 drives (576 TB)</td>
<td>8 / 16 Gbps FC, 1 / 10 Gbps iSCSI, 6 / 12 Gbps SAS</td>
<td>RAID Protection and Redundancy; ETERNUS SF Management Software offering Local Advanced Copy, Thin Provisioning</td>
</tr>
<tr>
<td></td>
<td>DX100</td>
<td>max. 16 host ports / 144 drives (4424 TB SSD 1728 TB HDD)</td>
<td>8 / 16 / 32 Gbps FC, 1 / 10 Gbps iSCSI, 12 Gbps SAS, 1 / 10 Gbps Ethernet</td>
<td>RAID Protection, Encryption and Redundancy; ETERNUS SF Management Software offering Local Advanced Copy, Transparent Failover, Automated Storage Tiering, Automated Quality-of-Service, Thin Provisioning, Deduplication and/or compression on volume base</td>
</tr>
<tr>
<td></td>
<td>DX200</td>
<td>max. 16 host ports / 264 drives (8110 TB SSD 3168 TB HDD)</td>
<td>8 / 16 / 32 Gbps FC, 1 / 10 Gbps iSCSI, 12 Gbps SAS, 1 / 10 Gbps Ethernet</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DX500</td>
<td>max. 16 host ports / 528 drives (16220 TB SSD 6336 TB HDD)</td>
<td>8 / 16 / 32 Gbps FC, 10 Gbps FCoE, 1 / 10 Gbps iSCSI, 1 / 10 Gbps Ethernet</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DX600</td>
<td>max. 32 host ports / 1056 drives (32440 TB SSD 12672 TB HDD)</td>
<td>8 / 16 / 32 Gbps FC, 10 Gbps FCoE, 1 / 10 Gbps iSCSI, 1 / 10 Gbps Ethernet</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DX8900</td>
<td>max. 384 host ports / 6912 drives (147558 TB SSD 88064 TB HDD)</td>
<td>8 / 16 / 32 Gbps FC, 1 / 10 Gbps iSCSI</td>
<td></td>
</tr>
</tbody>
</table>

* Calculation based on deduplication/compression factor of five
**FUJITSU ETERNUS Storage**  
**Online storage made easy**

### ETERNUS SF - Flexible Data Management

The ETERNUS SF storage management software is the uniform management solution for the entire ETERNUS AF and ETERNUS DX series. All essential operations for storage resource management, monitoring, reporting, tiered storage, performance management, disaster resilience and business continuity are integrated. The uniform management for the entire storage infrastructure covers all ETERNUS AF all-flash and ETERNUS DX hybrid storage systems from entry-level through the enterprise as well as virtualized server infrastructures.

- Management of all infrastructure devices based on a unified view
- Visualization of the relations between storage, network and physical servers or virtual servers
- Early detection and elimination of performance issues through performance monitoring
- Reduced initial system infrastructure through thin provisioning
- Support for incident management
- Hardware investment optimization through automated storage tiering
- Reduced storage system power consumption
- Central management for local and remote replication
- Enhanced business continuity with transparent failover
- Automated Quality-of-Service management

### ETERNUS CD10000 - Hyper-scale storage appliance

The FUJITSU Storage ETERNUS CD10000 enables you to take care of extreme data growth yourself – and with ease. This hyperscale, software-defined architecture is designed for all environments with huge online data volumes and offers almost unlimited scalability at consistently high levels of performance.

- Nearly unlimited and flexible scalability of capacity and performance
- Fault tolerance and self-healing by design
- Based on Ceph Open Source storage software
- Supports object, file and block storage
- High performance through high parallelism of read and write operations

<table>
<thead>
<tr>
<th>Description</th>
<th>At a glance</th>
<th>Host Connectivity Options</th>
<th>Software Version</th>
<th>Hardware Architecture</th>
<th>Basic Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETERNUS SF - Flexible Data Management</td>
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<tr>
<td>ETERNUS CD10000 - Hyper-scale storage appliance</td>
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</tbody>
</table>

- Unified: Block, File and Object
- Based on Open Source Ceph storage software
- Standard PRIMERGY server and network components
- 4x Basic node +1x Management node
### FUJITSU ETERNUS Storage
Data Protection made easy

#### ETERNUS CS800 backup appliance

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Product</th>
<th>Description</th>
<th>Data Protection Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Usable capacity after data reduction</td>
<td>8-24 TB</td>
<td>Deduplication</td>
<td>Disk-based backup and recovery, replication, path-to-tape, multiprotocol support (NAS, VTL, OST), backup target in the cloud</td>
</tr>
<tr>
<td></td>
<td>16-280 TB</td>
<td></td>
<td>Easy setup in just a few steps, automated operation, simple user interface for maintenance and analytics</td>
</tr>
<tr>
<td></td>
<td>16-640 TB</td>
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</tbody>
</table>

#### ETERNUS CS8000 Datacenter storage solution for backup and archive automation

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Product</th>
<th>Description</th>
<th>Data Protection Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture type</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>branch-office 14 TB, up to 1.4 TB/h</td>
<td>VTL, VTL with Dedup (FC 32 GB) Virtual tape drives: 32 / Back-end tape support</td>
<td></td>
<td></td>
</tr>
<tr>
<td>scale-up 19 TB - 6 PB, up to 30 TB/h</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cache mirror</td>
<td>single-site</td>
<td>CS8050</td>
<td>(no NAS protocol)</td>
</tr>
<tr>
<td></td>
<td>split-site</td>
<td>CS8200</td>
<td></td>
</tr>
<tr>
<td>scale-out 19 TB - 96 PB, up to 150 TB/h</td>
<td>Host connectivity: VTL, VTL with Dedup (FC 16 Gb / FICON 8 Gb); Virtual tape drives: 32 – 64 (CS8200) / 32 – 520B (CS8400, CS8800); Back-end tape support</td>
<td>Host connectivity: NAS (NFS / CIFS), 1Gbe or 10Gbe; Number of Files: 2 Billion; Back-end tape support with CS8400, CS8800</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Archive/second-tier files: NAS (NFS, CIFS)</td>
<td>28 TB, 42 TB, 56 TB, 70 TB</td>
</tr>
</tbody>
</table>

#### ETERNUS LT tape storage systems

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Product</th>
<th>Interface</th>
<th>Max. drives</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No of slots / max. capacity (native)</td>
<td>LT20 S2</td>
<td>SAS or FC</td>
<td>1</td>
<td>LTO 6/ LTO 7/ LTO 8 drive with 20 TB (LTO-6) or 48 TB (LTO-7) or 96 TB (LTO 8) capacity native</td>
</tr>
<tr>
<td>20 - 280 slots/ up to 3360 TB</td>
<td>LT140</td>
<td>SAS or FC</td>
<td>2</td>
<td>LTO 6/ LTO 7/ LTO 8 drive with 700 TB (LTO-6) or 1680 TB (LTO-7) or 3360 TB (LTO 8) capacity native</td>
</tr>
<tr>
<td>80 - 560 slots / up to 6720 TB</td>
<td>LT260</td>
<td>SAS or FC</td>
<td>4</td>
<td>LTO 6/ LTO 7/ LTO 8 with 1400 TB (LTO-6) or 3360 TB (LTO-7) or 6720 TB (LTO 8) capacity native</td>
</tr>
</tbody>
</table>
The perfect interplay
With the latest hardware and software, Windows Server 2019 prepares businesses for the future, helping them build sales, optimize operations, and stay protected with advanced security capabilities. The cloud-ready operating system provides the flexibility to connect on-premises hardware with Microsoft Azure and begin to move to the cloud when it fits the business needs.

### Windows Server 2019 Operating Systems

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Products</th>
<th>Licensed Guest OS</th>
<th>Product details</th>
<th>Client Access Licenses required?</th>
<th>Ordercodes / Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 CPU</td>
<td>Windows Server 2019 Essentials</td>
<td>1</td>
<td>CPU based, supports two sockets, 64 GB RAM and up to 25 users, incl. Hyper-V</td>
<td>CAL &gt; No RDS &gt; Yes</td>
<td></td>
</tr>
<tr>
<td>4 cores</td>
<td>Windows Server 2019 Standard</td>
<td>2</td>
<td>Core licensing, Supports 24 TB RAM, supports 1024 active virtual machines, Host Guardian Services, Nano Server, Remote Desktop Services, Just Enough Administration, Nested Virtualization and more</td>
<td>CAL &gt; Yes RDS &gt; Yes</td>
<td></td>
</tr>
<tr>
<td>16 cores</td>
<td>Windows Server 2019 Datacenter</td>
<td>unlimited</td>
<td>Core licensing, Supports 24 TB RAM, supports unlimited Hyper-V Container, full featured edition</td>
<td>CAL &gt; Yes RDS &gt; Yes</td>
<td></td>
</tr>
</tbody>
</table>

### Downgrade DG/DE Media Kit

Windows Server 2019 Max. one of each edition

Windows Server 2016 Datacenter only to Datacenter and/or Standard, Standard only to Standard

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>OEM</td>
<td>RDX</td>
<td>TX1130 M4</td>
<td>TX1230 M4</td>
</tr>
<tr>
<td>Windows Server 2019 Standard</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Windows Server 2019 Essentials</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Windows Server 2019 Datacenter</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

Windows Server:
The operating system that bridges on-premises and cloud.
How Fujitsu helps you keep everything running smoothly

Management, Maintenance, Support
FUJITSU Software Infrastructure Management and Server Management

FUJITSU Software Infrastructure Manager

FUJITSU Software Infrastructure Manager (ISM) enables organizations to drive towards the path of achieving software defined infrastructure, by automating and simplifying infrastructure operations across compute, storage and networking.

Product highlights include:

1. Converged management: Simplified IT operations and consistent management across server, storage and networking
2. Increased agility: Intuitive software providing actionable insights leading to reduced customer response time
3. Accelerate growth and innovation: Streamlined delivery of IT services to speed the transition to hybrid cloud

Designed the way people work, ISM provides an integrated view and centralized control over heterogeneous environment.

Control IT — Centralized, easy, efficient
- Node Management
- Health status Monitoring a Control
- Capacity / Threshold Management
- Power Management

Dynamize IT — Simple, sophisticated, efficient
- Converged Management
- Virtual-IO Management
- Network topology Management

Maintain IT — in any state, at any place
- Remote Management
- Update Management
- Logging and Auditing

Integrate IT — Seamless, manage, uniformly
- in Enterprise Management
- in vendor specific Management
- Monitor 3rd party platforms

FUJITSU Software ServerView Infrastructure Manager is now available with the PRIMERGY CX400 M4 multi-node offering. CX400 M4 with top of the rack switch PSWITCH 2048 managed by ISM is one of the ideal transition paths for Blade server customers.

More information on ISM: http://www.fujitsu.com/infrastructuremanagement
FUJITSU Software
Infrastructure Management and Server Management

FUJITSU Software Infrastructure Manager

### Deploy: Fast, easy, reliable
- Server Setup and Deployment
  - Installation Manager
  - Scripting Toolkit

### Dynamize: Simple, sophisticated, efficient
- Private Cloud Infrastructure
  - Resource Orchestrator Cloud Edition
  - Resource Orchestrator Virtual Edition
- I/O Management
  - Virtual-IO Manager

### Control: Centralized, easy, efficient
- Server Monitoring and Control
  - Operations Manager
  - Agents / CIM Providers
  - System Monitor
  - Agentless Service
  - Event Manager
  - RAID Manager
- Capacity Management
  - Threshold Manager
- Power Management
  - Power Monitor
  - Power Consumption Management (in iRMC)
- Storage Support
  - Storage Management
  - Monitoring / Events

### Integrate: Seamless, manage uniformly
- Uniformed Management
  - Fujitsu ManageNow® solutions
  - ServerView Integration Packs
- Microsoft SC PRO Packs
  - Microsoft SCOM
  - Microsoft SCCM
  - Microsoft SC VMM
  - VMware vCenter
  - VMware vRealize
  - Nagios
  - Icinga
  - HP Systems Insight Manager

### Maintain: In any state, at any place
- Remote Management
  - integr. Remote Management
  - Controller (iRMC)
  - iRMC Advanced Pack
  - Management Blade
  - Support Gateway / AutoCall
- Embedded Lifecycle Management
  - eLCM Activation License
  - Update Management
  - Update Manager (SVUM)
  - Update DVD / SVUM Express
  - Content Collector
- Performance Measurement
  - Performance Manager
  - Investigation
  - Asset Mgmt. / PrimeCollect
  - Inspection
  - Online Diagnostics / CSS

# Product Related Services
## Maintenance & Support for Fujitsu Products

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Product</th>
<th>Product details</th>
<th>Functions</th>
<th>Ordercodes / Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>4 hours (24x7) Recovery time</td>
<td>Onsite services 24x7 with recovery time of 4 hours</td>
<td>Recovery Time: The hardware recovery time is the time in which a service engineer usually recovers the operational readiness of the hardware. The recovery time refers to the time (within the agreed service time) between the call acceptance and the recovery of the operational readiness. Recovery time excludes the time to recover any data on hard disks and installation of any software and OS.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NBD (9x5)</td>
<td>Onsite services 9x5 with recovery the NBD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medium</td>
<td>4 hours (24x7) Onsite Response Time</td>
<td>Onsite services 24x7 with response time of 4 hours</td>
<td>Onsite Response Time: If an incident cannot be solved remotely, the on-site response time refers to the time between call acceptance and the arrival of a service engineer with the diagnosed spare part, repair starts after arrival at the customer location. Specific requirements with regards to coverage area and response times are subject to local conditions.</td>
<td></td>
</tr>
<tr>
<td>Low</td>
<td>4 hours (9x5) Onsite Response Time</td>
<td>Onsite services 9x5 with response within 4 hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NBD (9x5)</td>
<td>Onsite services 9x5 with response the NBD</td>
<td>Warranty: The Warranty is based on a voluntary obligation of Fujitsu as the manufacturer to the initial purchasers of new devices. The standard warranty period included in the product depends on the product class. For its extension, an respective service option has to be acquired.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Warranty prolongation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Availability may vary from country to country.

Fujitsu delivers Maintenance and Support Services through certified support engineers for x86 servers, ETERNUS storage systems and software: From installing new products to providing fast and uncomplicated support for hardware, software and infrastructures. With the right mix of Maintenance and Support Services, Fujitsu enables the early planning for the availability of IT systems required for state-of-the-art business operation. IT staff can concentrate on its core business.

For more information about our Product Related Services please visit: [http://www.fujitsu.com/fts/products/computing/support/](http://www.fujitsu.com/fts/products/computing/support/)

Financing is the key component of your IT investment decision. Fujitsu Financial Services helps you acquire tomorrow’s technology today. With our unique and tailor made financial solutions we address shrinking budgets, transfer technology risk and disperse financial risk. We give you a peace of mind, leaving you to concentrate on your core business.

For more information on our range of financial solutions please visit: [www.fujitsu.com/fts/financialservices](http://www.fujitsu.com/fts/financialservices)