Server, Storage & Integrated Systems Family Guide

Your fast lane to PRIMERGY / PRIMEQUEST servers, ETERNUS storage and PRIMEFLEX Integrated Systems

Windows Server: Power your business
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.

| On Premise - Hybrid IT - In the Fujitsu Cloud |
| Managed by yourself - Managed by Fujitsu |
| Robust IT - Bimodal - Fast IT |

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

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

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 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**

<table>
<thead>
<tr>
<th>Perfect for SMB's, branches and office environments</th>
<th>Core Business and Data Demanding Applications</th>
<th>HPC, Cloud, Technical Computing and Deep Learning</th>
<th>Business and Mission-critical environments</th>
<th>Operation and Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robust and cost-efficient servers characterized by simple and quiet operations</td>
<td>Versatile rack servers with leading efficiency and performance</td>
<td>Modular and density-optimized servers to scale efficiently</td>
<td>Business continuity for permanent data access and use cases such as in-memory computing</td>
<td>Efficient operation and management of IT infrastructures and equipment</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Type</th>
<th>Specifications</th>
<th>Products</th>
<th>Processor</th>
<th>Memory</th>
<th>Storage</th>
<th>Ordercodes / Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIMERGY TX Server</td>
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</tr>
<tr>
<td>Mono</td>
<td>Essential Workloads</td>
<td>Compact</td>
<td>Intel® Xeon® E3v6, Core i3®, Pentium®, Celeron®</td>
<td>4 – 64 GB 4 DIMM DDR4</td>
<td>4 x 3.5” SATA</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Standard Workloads</td>
<td>Ultra-compact</td>
<td>Intel® Xeon® E3v6, Core i3®, Pentium®, Celeron®</td>
<td>4 – 64 GB 4 DIMM DDR4</td>
<td>2 x 3.5” SATA or 8 x 2.5” SASTASAS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Redundancy</td>
<td>Intel® Xeon® E3v6, Core i3®, Pentium®, Celeron®</td>
<td>12 – 3.5” SASTASAS or 24 x 2.5” SASTASAS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dual</td>
<td>High Workload Versatility</td>
<td>Performance + Scalability</td>
<td>1-2 x Intel® Xeon® Scalable Family</td>
<td>4 – 768 GB 12 DIMM DDR4</td>
<td>12 x 3.5” SASTASAS or 32 x 2.5” SASTASAS</td>
<td></td>
</tr>
<tr>
<td>PRIMERGY RX Server</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Mono</td>
<td>Essential performance</td>
<td>Compact</td>
<td>Intel® Xeon® E3v6, Core i3®, Pentium®</td>
<td>4 – 64 GB 4 DIMM DDR4</td>
<td>4 x 3.5” SASTASAS or 10 x 2.5” SASTASAS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Height units / scalability</td>
<td>Ultra-compact</td>
<td>Intel® Xeon® E3v6, Core i3®, Pentium®</td>
<td>4 – 384 GB 24 DIMM DDR4</td>
<td>4 x 3.5” SASTASAS or 4 x 2.5” SASTASAS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Redundancy</td>
<td>Intel® Xeon® E3v6, Core i3®, Pentium®</td>
<td>12 x 3.5” SASTASAS or 24 x 2.5” SASTASAS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dual</td>
<td>Max. performance</td>
<td>Height units / scalability</td>
<td>1-2 x Intel® Xeon® Scalable Family</td>
<td>8 – 3072 GB 24 DIMM DDR4</td>
<td>6 x 3.5” SASTASAS or 8x10x 2.5” SASTASAS</td>
<td></td>
</tr>
<tr>
<td>Quad</td>
<td>Max. memory expansion</td>
<td>8 x PCI slots, up to 16x HDD/SSDs</td>
<td>1-2 x Intel® Xeon® Scalable Family</td>
<td>8 – 2048 GB 24 DIMM DDR4</td>
<td>12 x 3.5” SASTASAS or 24 x 2.5” SASTASAS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2-4 Intel® Xeon® Scalable Family</td>
<td>16 GB - 6 TB 48 DIMM DDR4</td>
<td>16 x 2.5” hot-plug SAS/SATA/PCIe</td>
<td></td>
</tr>
</tbody>
</table>
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.

**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.

**Your platform for highly parallel computing**
The PRIMERGY CX600 M1 is the perfect choice for highly parallel applications in the area of scientific research, product development and business intelligence.

### PRIMERGY CX400 M4

<table>
<thead>
<tr>
<th>Use Cases</th>
<th>Specifications</th>
<th>Products</th>
<th>Processor</th>
<th>Memory</th>
<th>Details</th>
<th>Ordercodes / Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>VDI, Virtualization, Cloud, Web Services, HPC, Technical Computing, AI, Deep Learning</td>
<td>Chassis: 2U/ up to 24 x 2.5” storage drives, Redundant, hot-plug components</td>
<td>CX400 M4</td>
<td>-</td>
<td>-</td>
<td>4 bays for nodes</td>
<td>Mix of different nodes</td>
</tr>
<tr>
<td></td>
<td>Server Nodes: Cloud/HPC optimized server node</td>
<td>CX2550 M4</td>
<td>1-2 x Intel® Xeon® Scalable Family</td>
<td>8 - 2048 GB</td>
<td>16 DIMM DDR4</td>
<td>Omni-Path support, Air- or liquid cooling</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CX2560 M4</td>
<td>1-2 x Intel® Xeon® Scalable Family</td>
<td>8 - 2048 GB</td>
<td>16 DIMM DDR4</td>
<td>DynamicLoM + 2x PCIe</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CX2570 M4</td>
<td>1-2 x Intel® Xeon® Scalable Family</td>
<td>8 - 2048 GB</td>
<td>16 DIMM DDR4</td>
<td>Up to 4x GPUs, Air- or liquid cooling</td>
</tr>
</tbody>
</table>

### PRIMERGY CX600 M1

<table>
<thead>
<tr>
<th>Use Cases</th>
<th>Specifications</th>
<th>Products</th>
<th>Processor</th>
<th>Memory</th>
<th>Details</th>
<th>Ordercodes / Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPC, AI, Deep Learning, Scientific Research, Business Intelligence, Weather Forecasting, Analytics, Financial Engineering</td>
<td>Chassis: 2U chassis for 19 inch rack, 4x hot-plug power supply units</td>
<td>CX600 M1</td>
<td>-</td>
<td>-</td>
<td>8 bays for nodes</td>
<td>Air- or liquid cooling</td>
</tr>
<tr>
<td></td>
<td>Server Nodes: Parallel computing server node</td>
<td>CX1640 M1</td>
<td>1 x Intel® Xeon® Phi™ 7200</td>
<td>16 - 384 GB</td>
<td>6 DIMM DDR4</td>
<td>up to 2x 2.5” SSD, 16 GB CPU-integrated MCDRAM memory</td>
</tr>
</tbody>
</table>
**FUJITSU Server PRIMEQUEST Systems**

**Scalable platform for business-critical and mission-critical applications**

FUJITSU Server PRIMEQUEST systems offers unprecedented x86 performance and memory expandability for resource-intensive applications. By uniting the x86 industry standards with mission-critical features, PRIMEQUEST systems deliver availability levels similar to those of UNIX systems — but 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 12 TB 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.

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**PRIMEQUEST 3800B**

<table>
<thead>
<tr>
<th>Type</th>
<th>Use Cases</th>
</tr>
</thead>
</table>
| Octo | Business-critical applications  
Transaction-demanding workloads  
In-memory databases  
Real-time data analytics  
High-density, high-capability virtualization |

<table>
<thead>
<tr>
<th>Products</th>
<th>Processor</th>
<th>Memory</th>
<th>Storage / PCI</th>
<th>RAS Features</th>
</tr>
</thead>
</table>
| PRIMEQUEST 3800B | 2, 4, 6, 8 x Intel® Xeon® Platinum Processor | 32 GB - 12 TB  
96 DIMM DDR4 | 8 x 2.5" / 16 PCIe slots | SDCC+1, ECC, redundant fans and power supply  
Intra-socket memory mirroring, MCA, ADDC-MR |

**PRIMEQUEST 3x00E**

<table>
<thead>
<tr>
<th>Type</th>
<th>Use Cases</th>
</tr>
</thead>
</table>
| Quad | Mission-critical applications  
Big data applications  
Unix migration  
High-volume, high-value workloads such as online transaction processing (OLTP), batch processing, and database applications  
In-memory databases  
Real-time data analytics |
| Octo | |

<table>
<thead>
<tr>
<th>Products</th>
<th>Processor</th>
<th>Memory</th>
<th>Storage / PCI</th>
<th>RAS Features</th>
</tr>
</thead>
</table>
| PRIMEQUEST 3400E | Up to 4 x Intel® Xeon® Platinum/Gold Processor | 16 GB - 6 TB  
48 DIMM DDR4 | 24 x 2.5" / 16 PCIe slots | Standard - SDCC+1, ECC, redundant fans and power supply  
Advanced - Intra-socket memory mirroring, MCA, ADDC-MR  
Mission Critical - Physical Partition, Extended Partition, Reserved Systemboard, flex IO, Dynamic Reconfiguration, redundant MMB, hot-plug PCIe |
| PRIMEQUEST 3800E | Up to 8 x Intel® Xeon® Platinum Processor | 16 GB - 12 TB  
96 DIMM DDR4 | 24 x 2.5" / 16 PCIe slots | |
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, private cloud, Big Data and Analytics, High Performance Computing and SAP environments.

<table>
<thead>
<tr>
<th>Integrated System</th>
<th>Short description</th>
<th>Core components</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIMEFLEX vShape VMware Edition</td>
<td>Converged system for deploying a classical VMware vSphere based infrastructure with external storage. It includes multiple configurations varying in size, and scales up to 64 servers with its Standard Edition, and up to 3x 64 servers with its Enterprise Edition.</td>
<td>Compute: PRIMERGY RX Storage: ETERNUS DX / AF Network: Brocade Software: VMware vSphere, vCenter Optional: VMware Horizon, vRealize</td>
</tr>
<tr>
<td>PRIMEFLEX vShape Microsoft Edition</td>
<td>Converged system for deploying a classical Microsoft Hyper-V based infrastructure with external storage. It includes multiple configurations varying in size, and scales up to 16 servers.</td>
<td>Compute: PRIMERGY RX Storage: ETERNUS DX / AF Network: Brocade Software: Windows Server 2016 Standard or Datacenter including Hyper-V, SystemCenter (optional)</td>
</tr>
<tr>
<td>PRIMEFLEX for VMware vSAN</td>
<td>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.</td>
<td>Compute / Storage: PRIMERGY RX / CX Software: VMware vSphere, vSAN, vCenter Optional: VMware Horizon</td>
</tr>
</tbody>
</table>
# FUJITSU Integrated System PRIMEFLEX

## Addressing our customers’ needs

### SAP

<table>
<thead>
<tr>
<th>Integrated System</th>
<th>Short description</th>
<th>Core components</th>
</tr>
</thead>
</table>
| PRIMEFLEX for SAP HANA | SAP-validated infrastructure solution for the SAP HANA software. 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. | Compute: PRIMERGY / PRIMEQUEST  
Storage (optional for single-node): ETERNUS / NetApp / TDI support  
Network (multi-node only): Brocade, Cisco  
Software: SUSE or Red Hat Linux / Optional: VMware vSphere |
| PRIMEFLEX for SAP Landscapes | Powered by the FlexFrame Orchestrator software component, 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. | Compute: PRIMERGY / PRIMEQUEST  
Storage: NetApp for shared image; ETERNUS / NetApp for database  
Network: Brocade, Cisco  
Software: FUJITSU FlexFrame Orchestrator, SUSE Linux  
Optional: VMware vSphere, extension packs (e.g. from LNW Soft) |

### Big Data and Analytics

<table>
<thead>
<tr>
<th>Integrated System</th>
<th>Short description</th>
<th>Core components</th>
</tr>
</thead>
</table>
| PRIMEFLEX for Hadoop | Powerful and scalable platform for extracting large volumes of data from diverse sources, and analyzing them to get meaningful business-relevant information. The integrated system combines the convenience of pre-configured and pre-tested hardware and the economic advantages of open source software. | Compute / Storage: PRIMERGY CX2550, RX2540  
Network: Brocade  
Software: Cloudera, Hortonworks, MapR, Datameer® Software |

### HPC

<table>
<thead>
<tr>
<th>Integrated System</th>
<th>Short description</th>
<th>Core components</th>
</tr>
</thead>
</table>
| PRIMEFLEX for HPC | Validated HPC cluster solutions optimized for specific industries and ISV applications like Ansys, Fluent, etc. With Fujitsu’s investment in the area of AI and deep learning, the integrated system also provides reference models on workloads across traditional simulation to data analytics and AI. | Compute: PRIMERGY CX, RX; Head node PRIMERGY RX  
Storage: ETERNUS DX  
Network: InfiniBand, Interconnect Intel® Omni-Path  
Software: Intel HPC Orchestrator, HPC Gateway  
Optional: FEFS (FUJITSU Exabyte File System) |
**FUJITSU Storage Products**

**ETERNUS: Business-Centric Storage**

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.

<table>
<thead>
<tr>
<th>FUJITSU Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>All-flash and Hybrid Storage Systems</strong></td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Tape Storage Systems</strong></td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Data Protection Appliances</strong></td>
</tr>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FUJITSU Storage ETERNUS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ETERNUS AF/DX Family</strong></td>
</tr>
<tr>
<td>Leading performance increases system utilization and consolidation resulting in a faster ROI</td>
</tr>
<tr>
<td><strong>ETERNUS LT Family</strong></td>
</tr>
<tr>
<td>Highly automated, simple and remote operation without any demand for local expert skills</td>
</tr>
<tr>
<td><strong>ETERNUS CS Family</strong></td>
</tr>
<tr>
<td>ETERNUS CS data protection appliances radically simplify backup and archive infrastructures by aligning storage resources with business priorities.</td>
</tr>
</tbody>
</table>
### FUJITSU ETERNUS Storage

**Online storage made easy**

#### CELVIN NAS server

<table>
<thead>
<tr>
<th>Product</th>
<th>Max. capacity</th>
<th>Host interfaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q6705/08805</td>
<td>12/24 TB</td>
<td>Ethernet (1Gbits) / USB 3.0 / USB 2.0 / eSATA (depending on selected product)</td>
</tr>
<tr>
<td>Q805</td>
<td>24 TB</td>
<td></td>
</tr>
<tr>
<td>Q905</td>
<td>36 TB</td>
<td></td>
</tr>
<tr>
<td>QR802</td>
<td>24 TB</td>
<td></td>
</tr>
</tbody>
</table>

#### ETERNUS DX hybrid storage systems

<table>
<thead>
<tr>
<th>Product</th>
<th>Max. capacity</th>
<th>Host interfaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>DX60 S4</td>
<td>8/16 Gbits FC, 1/10 Gbits, (10GBase-T) iSCSI, 3/6 Gbits SAS</td>
<td>8 x FC 16G / 8 x iSCSI 10G</td>
</tr>
<tr>
<td>DX100 S4</td>
<td>8/16 Gbits FC, 10 Gbits FCoE, 1/10 Gbits iSCSI, 3/6 Gbits SAS, 3/10 Gbits Ethernet</td>
<td>32 x FC 16G / 16 x iSCSI 10G</td>
</tr>
<tr>
<td>DX200 S4</td>
<td>8/16 Gbits FC, 10 Gbits FCoE, 1/10 Gbits iSCSI</td>
<td>12 x FC 16G / 12 x iSCSI 10G</td>
</tr>
<tr>
<td>DX500 S4</td>
<td>8/16 Gbits FC, 10 Gbits FCoE, 1/10 Gbits iSCSI, 3/10 Gbits Ethernet</td>
<td>8 x FC 16G / 12 x iSCSI 10G</td>
</tr>
<tr>
<td>DX600 S4</td>
<td>8/16 Gbits FC, 10 Gbits FCoE, 1/10 Gbits iSCSI, 1/10 Gbits Ethernet</td>
<td>6 x FC 16G / 6 x iSCSI 10G</td>
</tr>
<tr>
<td>DX8700 S3</td>
<td>16/32 Gbits FC, 10 Gbits FCoE, 1/10 Gbits iSCSI</td>
<td>16 x FC 16G / 16 x iSCSI 10G</td>
</tr>
<tr>
<td>DX8900 S3</td>
<td>16/32 Gbits FC, 10 Gbits FCoE, 1/10 Gbits iSCSI, 1/10 Gbits Ethernet</td>
<td>4 x FC 16G / 4 x iSCSI 10G</td>
</tr>
</tbody>
</table>

#### ETERNUS AF all-flash arrays

<table>
<thead>
<tr>
<th>Product</th>
<th>Max. capacity</th>
<th>Host interfaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>AF250</td>
<td>12/24 TB</td>
<td>8 x FC 16G / 8 x iSCSI 10G</td>
</tr>
<tr>
<td>AF650</td>
<td>24 TB</td>
<td>32 x FC 16G / 16 x iSCSI 10G</td>
</tr>
</tbody>
</table>

#### Functions

- VMware, Citrix, Hyper-V virtualization; FTP, file, web, printer, SQL and multimedia server; Remote access and system management, snapshots, App center.

#### Specifications

- **Number of Drives:**
  - max. 48, 737 TB raw / 3686 TB effective*
  - max. 192, 2949 TB raw / 14745 TB effective*

- **Connectivity / Scalability:**
  - max. 4 host ports/
  - 96 drives (480 TB)
  - max. 16 host ports/
  - 144 drives (2721 TB)
  - max. 16 host ports/
  - 264 drives (6655 TB)
  - max. 16 host ports/
  - 528 drives (8110 TB)
  - max. 32 host ports/
  - 1056 drives (16209 TB)
  - max. 128 host ports/
  - 1536 drives (23508 TB)
  - max. 384 host ports/
  - 4608 drives (70791 TB)

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* 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.

ETERNUS Snapshot Manager - Efficient Snapshot Management

The ETERNUS Snapshot Manager (ESM) is a feature rich software to manage and catalog application-consistent hardware snapshots of ETERNUS AF and ETERNUS DX arrays without scripting. The software offers granular recovery of data across physical and virtual environments to minimize downtime and enhance business productivity.

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 appliance is designed for all environments with huge online data volumes and offers almost unlimited scalability at consistently high levels of performance. The ETERNUS CD10000 combines Ceph open source storage software, Fujitsu management enhancements and Fujitsu enterprise-class hardware with end-to-end maintenance services in a complete solution that is ready to use right out of the box.

ETERNUS SF at a glance

- 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 Snapshot Manager at a glance

- Manages and catalogs application-consistent hardware snapshots of ETERNUS AF/DX arrays without scripting
- Application-consistency increases protection for mission-critical data with low production impact
- Snapshot support for industry’s broadest application and file systems eliminates multiple management and operational costs
- Granular and consistent recovery of applications and files speeds up and simplifies recovery process

### Host Connectivity Options

- 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
- Appliance with end-to-end maintenance
- High performance through high parallelism of read and write operations

### Software Version

- Based on Open Source Ceph storage software

### Hardware platform

- Standard PRIMERGY server and network components

### Basic configuration

- 4x Basic node
- 1x Management node
# FUJITSU ETERNUS Storage
Data Protection made easy

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## ETERNUS CS8000 V6.1
Datacenter solution for backup and archive automation

### Specifications
- **Architecture type**
  - Branch-office: 14 TB, up to 1.4 TB/h
  - Scale-up: 7 TB - 1.3 PB, up to 30 TB/h
  - Cache mirror: Split-site

### Product
- ETERNUS CS8000 S6
- ETERNUS CS8000 S6 Entry
- ETERNUS CS8000 S6 Scale

### Data Protection Functions
- VTL, VTL with Dedup (FC 16 Gb)
- Virtual tape drives: 32 – 2540 (CS8400, CS8800)
- Back-end tape support

### Key Feature
- Deduplication

### Backup
- Host connectivity: VTL, VTL with Dedup (FC 16 Gb / FICON 8 Gb)
- Virtual tape drives: 32 – 64 (CS8200) / 32 – 2540 (CS8400, CS8800)
- Back-end tape support

### Archive / second-tier files
- (no NAS protocol)

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## ETERNUS LT tape storage systems

### Specifications
- **No of slots / max. capacity (native)**
  - 1 slot / up to 2.5 TB
  - 8 slots / up to 48 TB
  - 12 – 24 slots / up to 144 TB
  - 24 – 48 slots / up to 288 TB
  - 80 – 560 slots / up to 3,360 TB

### Interface
- ETERNUS LT Desktop
- LTO S2
- LTO 4 S2
- LTO 6 S2
- LTO 6 S6

### Max. drives
- SAS: 1
- SAS or FC: 1
- SAS or FC: 2
- SAS or FC: 4
- SAS or FC: 42

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## ETERNUS CS200c Integrated Backup Appliance

### Specifications
- **Usable capacity**
  - 8 TB
  - 16, 24, 32, 48 TB

### Product
- CS200c S4 ECO
- CS200c S4 FLEX

### Data Protection Functions
- All-in-one backup appliance provides small and mid-sized environments with a customizable, self-contained solution for professional backup

### Key Feature
- Easy setup in just a few steps, automated operation, simple user interface for maintenance and analytics

### Usability
- Disk-based backup and recovery, replication, path-to-tape, multiprotocol support (NAS, VTL, OST), backup target in the cloud

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## ETERNUS CS800 backup appliance

### Specifications
- **Usable capacity after data reduction**
  - 8.24 TB
  - 8.120 TB
  - 32 – 352 TB

### Product
- CS800 S6 Entry
- CS800 S6 Scale

### Data Protection Functions
- Deduplication

### Backup
- Host connectivity: VTL, VTL with Dedup (FC 16 Gb)
- Virtual tape drives: 32 – 64 (CS8200) / 32 – 2540 (CS8400, CS8800)
- Back-end tape support

### Archive / second-tier files
- Easy setup in just a few steps, automated operation, simple user interface for maintenance and analytics
With Windows Server 2016 you can run your business with confidence. Designed with cloud-inspired technologies intended to help your business reach its full potential and operate with agility while maintaining security, resilience, and performance.

### Windows Server 2016 Operating Systems

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Core-based licensing</th>
<th>Product</th>
<th>Licensed Guest OS</th>
<th>Product details</th>
<th>Client Access Licenses required?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No</td>
<td>Windows Server 2016 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>
</tr>
<tr>
<td></td>
<td></td>
<td>Windows Server 2016 Standard</td>
<td>2</td>
<td>Core licensing, supports 24 TB RAM, supports 1024 active virtual machines, 2 Hyper-V Container, Host Guardian Services, Nano Server, Remote Desktop Services, Just Enough Administration, Nested Virtualization and more</td>
<td>CAL &gt; Yes, RDS &gt; Yes</td>
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<tr>
<td></td>
<td></td>
<td>Windows Server 2016 Datacenter</td>
<td>1</td>
<td>Datacenter only to Datacenter and/or Standard, Standard only to Standard</td>
<td>CAL &gt; Yes, RDS &gt; Yes</td>
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### Windows Storage Server 2016

| Core-based licensing | Windows Storage Server 2016 Standard | 2 | Scale out and Scale up file server, Support for an unlimited amount of users (may only be limited by particular hardware implementation) | CAL > No, RDS > No |

### Downgrade DG/DE Media Kit

<table>
<thead>
<tr>
<th>Windows Server 2016</th>
<th>Max. one of each edition</th>
<th>Windows Server 2012 R2</th>
<th>–</th>
<th>Datacenter only to Datacenter and/or Standard, Standard only to Standard</th>
<th>–</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Windows Server 2012</td>
<td>–</td>
<td>Datacenter only to Datacenter and/or Standard, Standard only to Standard</td>
<td>–</td>
</tr>
</tbody>
</table>

### Windows Server 2016 Client Access License

<table>
<thead>
<tr>
<th>User / Device CAL</th>
<th>Windows Server CALs (User / Device)</th>
<th>–</th>
<th>Required to connect Windows Server services from clients. Available for users or devices and in different CAL packages.</th>
<th>–</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote Services</td>
<td>Windows Server RDS CALs (User / Device)</td>
<td>–</td>
<td>Required to use remote desktop or terminal services. Available for users or devices and in different CAL packages.</td>
<td>–</td>
</tr>
</tbody>
</table>
FUJITSU Software ServerView®
Infrastructure Management and Server Management

FUJITSU Software ServerView® Infrastructure Management
FUJITSU Software ServerView® 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.

FUJITSU Software ServerView® Server Management
ServerView® Suite- Server Management offerings delivers all optimized deployment, permanent status monitoring and extensive control or analysis when there are malfunctions that result in fewer downtimes as well as improved maintenance and service quality. Consolidate server management functions with the embedded Lifecycle Manager for more simplified, integrated and automated server management processes.

FUJITSU Software ServerView® Infrastructure Manager
More information on ServerView® ISM: http://www.fujitsu.com/infrastructuremanagement

FUJITSU Software ServerView® Server Management
More information on ServerView® Server Management: www.fujitsu.com/fts/serverview

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.

Fujitsu offers comprehensive infrastructure management and server management solution which is key to efficient data center operations. It provides all the functions for flexible and automated 24x7 IT operations and improves end-user productivity via intelligent and innovative system management solutions.
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.

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