Datacenter Product Family Guide

Your fast lane to PRIMERGY, PRIMEQUEST Server, ETERNUS Storage and PRIMEFLEX Integrated Systems

Windows Server 2022: Be cloud-ready with hybrid.
Contents

1. Servers for a data-driven world
2. Fujitsu x86 Server
3. PRIMERGY TX Tower Server
4. PRIMERGY RX Rack Server
5. PRIMERGY CX Multi-Node Server
6. PRIMERGY GX Workload-Optimized Server
7. PRIMEQUEST Server Systems
8. Fujitsu PRIMEFLEX Integrated System
9. Data & Storage
10. ETERNUS Storage
11. ETERNUS SF: Flexible data management
13. Software-defined storage made easy
14. Fujitsu Software Infrastructure Manager
15. Modernize with Windows Server 2022
Servers for the data-driven world

Fujitsu x86 Servers

Rely on our servers for quality, efficiency, agility, and seamless integration. Experience uninterrupted operations, accelerated workloads, and strategic advantages for your business.
Fujitsu x86 Server
The right computing solution for every purpose

Fujitsu server systems provide the most powerful and flexible data center solutions for companies of all sizes, across all industries and for any type of workload. This includes expandable tower servers, versatile rack-mount servers and density-optimized multi-node servers as well as GPU servers. They offer compelling business-proven quality with a wide range of innovations, top efficiency that cuts operational costs and complexity, and they provide more agility in daily operations in order to turn IT into a business advantage more quickly.

Consistent management across server, storage, and networking
PRIMERGY TX Tower Server

PRIMERGY tower servers deliver rock-solid, efficient business value and are the ideal choice for small and medium-sized businesses and branch operations.

They're also super easy to run, so you don't need a team of techies to keep your IT running the way it should.

In addition, the right-sized tower portfolio is silent enough to run in the office, even on your desk. And if you want to change your setup later, it's good to know that almost all PRIMERGY TX servers can also be rack-mounted.
## PRIMERGY TX Tower Server

### Products

<table>
<thead>
<tr>
<th>Type</th>
<th>Specifications</th>
<th>Processor</th>
<th>Memory</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>TX1310 M5</td>
<td>Essential workloads</td>
<td>Intel® Xeon® E-2300,</td>
<td>8 - 128 GB</td>
<td>4 x 3.5&quot; SATA</td>
</tr>
<tr>
<td></td>
<td>4 PCI slots/ up to 4 x HDDs</td>
<td>Pentium®</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 x standard power supply</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TX1320 M6</td>
<td>Ultra-compact</td>
<td>Intel® Xeon® E-2400,</td>
<td>16 - 128 GB</td>
<td>2x 3.5&quot; non hot-plug or 8x 2.5&quot; hot-plug SAS/SATA</td>
</tr>
<tr>
<td></td>
<td>4x PCIe 5.0/4.0 slots (2x PCIe 5.0)</td>
<td>Pentium®</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 x standard, 1 x hot-plug, 2 x hot-plug redundant power supply</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TX1330 M6</td>
<td>Highly expandable</td>
<td>Intel® Xeon® E-2400,</td>
<td>16 - 128 GB</td>
<td>12 x 3.5&quot; SATA/SAS or 24 x 2.5&quot; SATA/ SAS</td>
</tr>
<tr>
<td></td>
<td>4 PCIe 5.0/4.0 slots (2x PCIe 5.0)</td>
<td>Pentium®</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 x standard, 1 x hot-plug, 2 x hot-plug redundant power supply (depending on Model)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TX2550 M7</td>
<td>High workload versatility</td>
<td>2x 5th or 5th Gen.</td>
<td>16 GB - 4 TB</td>
<td>12 x 3.5&quot; SATA/SAS or 32 x 2.5&quot; SATA/SAS</td>
</tr>
<tr>
<td></td>
<td>10 PCI slots/ up to 32 x HDDs/ SSDs</td>
<td>Intel® Xeon® scalable processors</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 x non hot-plug, 2 x hot-plug power supply for redundancy</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PRIMERGY rack servers are versatile, rack-optimized servers that deliver best-in-class performance and energy efficiency.

You can rely on these servers as the backbone of your IT operations and easily scale them as you grow.

In addition, the PRIMERGY rack server portfolio is performance optimized for multi-application workloads to significantly increase the efficiency of IT operations and enable IT to respond more quickly to business needs of any size.
## PRIMERGY RX Rack Server

### Products

<table>
<thead>
<tr>
<th>Type</th>
<th>Specifications</th>
<th>Processor</th>
<th>Memory</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mono</strong></td>
<td>Ideal performance &amp; cost mix</td>
<td>1U 1x standard power supply 1x or 2x hot-plug power supply</td>
<td>Intel® Xeon® E-2400, Pentium®</td>
<td>16 GB - 128 GB 4 UDIMM DDR5 4/8 x 2.5&quot; hot-plug SATA/SAS or 4x 3.5&quot; hot-plug or 10 x 2.5&quot; hot-plug SATA/SAS</td>
</tr>
<tr>
<td><strong>Mono</strong></td>
<td>Powerful compact server</td>
<td>1U 3x HHHL PCIe slot + 2x OCPv3 2x FHHL PCIe slot + 2x OCPv3</td>
<td>1x AMD EPYC™ 9004 series processor</td>
<td>16 GB - 6 TB 4 DIMM DDR4 Up to 10x 2.5-inch SATA/SAS/NVMe upgrade kit + 3x or 2x 2.5-inch rear bays</td>
</tr>
<tr>
<td><strong>Dual</strong></td>
<td>Max. performance</td>
<td>1U / high 4 x PCIe 5.0 slots, up to 32 x SAS/SATA/ NVMe/EDSFF</td>
<td>1 - 2x 5th and 6th Gen. Intel® Xeon® scalable processors</td>
<td>8 GB – 10 TB 32 DIMM DDR5 4x 3.5&quot; SAS/SATA/ or 8x/10x 2.5&quot; SAS/SATA/ NVMe</td>
</tr>
<tr>
<td><strong>Dual</strong></td>
<td>Performance &amp; security</td>
<td>2U / 6x PCIe slot + 1x OCPv3 slot 4x PCIe slot(LP) + 4x PCIe slot(FH) + 1x OCPv3 slot</td>
<td>2x AMD EPYC™ 9004 series processors</td>
<td>16 GB - 6 TB 24 DIMM DDR5 6x 2.5-inch hot-plug SAS/SATA HDD/SSD rear option or 4x 2.5-inch hot-plug PCIe SSD via retimer or 4x 2.5&quot; hot-plug PCIe SSD via 1x EPxxi NVMe</td>
</tr>
</tbody>
</table>

### RX1330 M6
- Mono
- Ideal performance & cost mix
- 1U 1x standard power supply 1x or 2x hot-plug power supply
- Intel® Xeon® E-2400, Pentium®
- 16 GB - 128 GB 4 UDIMM DDR5
- 4/8 x 2.5" hot-plug SATA/SAS or 4x 3.5" hot-plug or 10 x 2.5" hot-plug SATA/SAS

### RX1440 M2
- Mono
- Powerful compact server
- 1U 3x HHHL PCIe slot + 2x OCPv3 2x FHHL PCIe slot + 2x OCPv3
- 1x AMD EPYC™ 9004 series processor
- 16 GB - 6 TB 4 DIMM DDR4
- Up to 10x 2.5-inch SATA/SAS/NVMe upgrade kit + 3x or 2x 2.5-inch rear bays

### RX2530 M7
- Dual
- Max. performance
- 1U / high 4 x PCIe 5.0 slots, up to 32 x SAS/SATA/ NVMe/EDSFF
- 1 - 2x 5th and 6th Gen. Intel® Xeon® scalable processors
- 8 GB – 10 TB 32 DIMM DDR5
- 4x 3.5" SAS/SATA/ or 8x/10x 2.5" SAS/SATA/ NVMe

### RX2450 M2
- Dual
- Performance & security
- 2U / 6x PCIe slot + 1x OCPv3 slot 4x PCIe slot(LP) + 4x PCIe slot(FH) + 1x OCPv3 slot
- 2x AMD EPYC™ 9004 series processors
- 16 GB - 6 TB 24 DIMM DDR5
- 6x 2.5-inch hot-plug SAS/SATA HDD/SSD rear option or 4x 2.5-inch hot-plug PCIe SSD via retimer or 4x 2.5" hot-plug PCIe SSD via 1x EPxxi NVMe
PRIMERA RX Rack Server

### Products

<table>
<thead>
<tr>
<th>Type</th>
<th>Specifications</th>
<th>Processor</th>
<th>Memory</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>RX2540 M7</td>
<td>Dual</td>
<td>Max. performance 2U / very high scalability 8 PCIe 5.0 slots, up to 28 x HDD/SSDs</td>
<td>1 - 2x 5th and 6th Gen. Intel® Xeon® scalable processors</td>
<td>8 GB - 12 TB 48 DIMM DDR5</td>
</tr>
<tr>
<td>RX4770 M7</td>
<td>Quad</td>
<td>Max. memory expansion 3U/ up to 11 PCIe 5.0 slots, up to 24 x 2.5&quot; SAS/SATA/NVMe</td>
<td>2 or 4x 4th Intel® Xeon® processors</td>
<td>16 GB - 18 TB 48 DIMM DDR5</td>
</tr>
<tr>
<td>RX8770 M7</td>
<td>Octo</td>
<td>High-end back-end solution 6U/ up to 24 PCIe 5.0 and 4.0 slots, up to 24 x 2.5&quot; SAS/SATA/NVMe</td>
<td>2 or 8x 4th Intel® Xeon® processor</td>
<td>128 GB - 32 TB 128 DIMM DDR5</td>
</tr>
</tbody>
</table>
PRIMERGY CX Multi-Node Server

PRIMERGY CX multi-node systems are the ideal foundation for cloud, hyper-converged and high performance computing solutions.

They provide data centers and branch offices with massive computing power while delivering the best economics in terms of server density, power consumption, thermal optimization and lower total cost of ownership.
# PRIMERGY CX Multi-Node Server

## Use cases
- VDI
- Cloud
- Deep learning
- AI
- HPC
- Virtualization
- Web services
- Technical computing

## Specifications

<table>
<thead>
<tr>
<th>Use case</th>
<th>CX400 M7</th>
<th>CX2550 M7</th>
<th>CX2560 M7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chassis</td>
<td>2U / up to 24 x 2.5&quot; storage devices</td>
<td>Redundant, hot-plug components</td>
<td>4 bays for nodes shared infrastructure</td>
</tr>
<tr>
<td>Server Nodes</td>
<td>Cloud/HPC-optimized server node</td>
<td>1 - 2x 5th Gen. Intel® Xeon® scalable processors</td>
<td>8 GB - 4 TB 16 DIMM DDR5 up to 2x 2.5&quot; HDD/SSD and 2x M.2 device per node</td>
</tr>
<tr>
<td>All-around server node</td>
<td></td>
<td>1 - 2x 5th Gen. Intel® Xeon® scalable processors</td>
<td>8 GB - 6 TB 24 DIMM DDR5 up to 6x 2.5&quot; drive bay per node and 2x M.2 device</td>
</tr>
</tbody>
</table>

## Processor
- 1 - 2x 5th Gen. Intel® Xeon® scalable processors

## Memory
- 8 GB - 4 TB 16 DIMM DDR5
- 8 GB - 6 TB 24 DIMM DDR5
PRIMERGY GX Workload-Optimized Server

PRIMERGY GX servers are optimized for GPU performance and offer the reliability and cost-effectiveness of our PRIMERGY line to best suit your individual requirements.

There is no need to compromise as GX servers are designed to excel in single/multi-GPU accelerated data-driven use cases such as artificial intelligence - especially Generative AI with LLM, data science and analytics, VDI and graphics, as well as future high performance computing workloads.

<table>
<thead>
<tr>
<th>Type</th>
<th>Specifications</th>
<th>Processor</th>
<th>Memory</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>GX2560 M7</td>
<td>Dual 4x NVIDIA HGX H100 80 GB SXM5 GPUs</td>
<td>2x 6th Gen. Intel® Xeon® scalable processors</td>
<td>64 GB - 2 TB 32 DIMM DDR5</td>
<td>6x 2.5-inch NVMe/SAS/SATA</td>
</tr>
</tbody>
</table>
PRIMEQUEST Server Systems

**Powerful x86 Servers**

Fujitsu PRIMEQUEST systems offer exceptional x86 performance and memory expandability for resource-intensive applications.

By combining x86 industry standards with mission-critical features, PRIMEQUEST systems provide availability levels comparable to those of UNIX systems, but with the cost advantages of an x86-based architecture.

---

**Optimized Business Workloads**

The PRIMEQUEST 3800B2 features the Intel® Xeon® processor scalable family, with up to 28 cores per processor, and the fastest available DDR4 memory modules, with a memory capacity of up to 24 TB (DDR4 only) or 36 TB with Intel® Optane™ DC persistent memory.

This significantly improves performance for in-memory databases, such as SAP HANA®, and real-time data analytics. Therefore, it is the right choice for the most complex business-critical workloads in big-data processing environments.

---

**Revolutionary Servers**

The PRIMEQUEST 3800E2 features Intel® Xeon® Platinum processors, with up to 28 cores per processor, and the fastest available DDR4 memory modules, with a memory capacity of up to 24 TB (DDR4 only) or 36 TB with Intel® Optane™ DC persistent memory.

This improves performance for in-memory databases, such as SAP HANA® and Microsoft SQL Server 2017, making it the ideal choice for the most complex mission-critical workloads in big-data processing environments.
## PRIMEQUEST Server Systems

### Products

<table>
<thead>
<tr>
<th>Type</th>
<th>Use Cases</th>
<th>Processor</th>
<th>Memory</th>
<th>Storage/PCI</th>
<th>RAS</th>
</tr>
</thead>
</table>
| Octo | - Business-critical applications  
- Transaction demanding workloads  
- In-memory databases  
- Real-time data analytics  
- High-density, high-capability virtualization | Up to 8x Intel® Xeon® scalable family processor | 16 GB - 24 TB / 36 TB  
96 DIMM DDR4 / DCPMM | 8 x 2.5"  
16 PCIe slots | SDCC+1, ECC, redundant fans and power supply  
Intra-socket memory mirroring, MCA, ADDDC-MR |
| Octo | - Mission-critical applications  
- Big-data applications  
- Unix migration  
- High-volume, high-value workloads such as online transactions processing (OLTP), batch processing and database applications  
- In memory databases  
- Real-time data analytics | Up to 8x Intel® Xeon® scalable family processor | 16 GB - 24 TB / 36 TB  
96 DIMM DDR4 / DCPMM | 24 x 2.5"  
16 PCIe slots | Standard: SDCC+1, ECC, redundant fans and power supply  
Advanced: Intra-socket memory mirroring, MCA, ADDDC-MR  
Mission critical: physical partition, extended partition, Reserved System Board, flex I/O, redundant MMB, hotplug PCIe |
Fujitsu PRIMEFLEX
Integrated System

Fast track to a data-driven enterprise
Simple, fast, minimized risk and reduced cost
Building a data-driven enterprise is a complex process that requires a solid data architecture foundation.

This foundation enables companies to scale and adapt quickly. Fujitsu Integrated System PRIMEFLEX offers a portfolio of holistic, modern infrastructure offerings that are predefined, pre-integrated, and pre-tested for easy and risk-free deployment, as well as increased operational efficiency.

The portfolio comprises converged, hyper-converged, and hybrid IT infrastructure solutions that can be easily tailored to meet customer-specific needs. This simplifies operation and maintenance, with end-to-end solution support from a single point of contact. Deployment and integration services also ensure seamless integration into existing operations.
# Fujitsu PRIMEFLEX Integrated System

## Fast track to a data-driven enterprise

**Virtualization and cloud**

### PRIMEFLEX for VMware vSphere

Converged infrastructure 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 4,000+ VMs.

- **Compute:** PRIMERGY RX
- **Storage:** ETERNUS DX / AF / AB / HB
- **Network:** Juniper networks
- **Optional:** Broadcom FC switches
- **Software:** VMware vSphere
- **Optional:** VMware Horizon
- **Management:** Fujitsu ISM

### PRIMEFLEX for Nutanix Enterprise Cloud

As a multi-hypervisor infrastructure, PRIMEFLEX for Nutanix Enterprise Cloud helps customers to eliminate complexity and risk in deploying a hyper-converged infrastructure based on the Nutanix Enterprise Cloud software stack.

- **Computing:** PRIMERGY XF
- **Hypervisor:** Choice of AHV or ESXi
- **Operating system:** Acropolis
- **Management:** Prism

### PRIMEFLEX for Microsoft Storage Space Direct

Hyper-converged system based on Microsoft software-defined server and storage technology integrated in Windows Server Datacenter. The system is available in various validated and certified configurations scaling from 2 to 16 server nodes.

- **Compute/storage:** PRIMERGY RX
- **Operating System:** Windows Server Datacenter (Hyper-V and Storage Spaces Direct)
- **Management:** Windows Admin Center

### PRIMEFLEX for Microsoft Azure Stack HCI

Hyper-converged system based on Microsoft software-defined server and storage technology integrated in Microsoft's Azure Stack HCI operating system. The system is available in various validated and certified configurations scaling from 2 to 16 server nodes.

- **Computing/storage:** PRIMERGY RX / TX
- **Operating System:** Azure Stack HCI
- **Management:** Windows Admin Center, Azure Cloud
As an SAP Global Partner for technology and services, Fujitsu provides enterprises with end-to-end support at the application and IT infrastructure levels, to implement and run SAP systems, including strategic consulting and developing business processes further.

**Fujitsu PRIMEFLEX Integrated System**

**Fast track to a data-driven enterprise**

---

**SAP**

**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 fast and non-disruptive implementation and operation at the customer site.

- Computing: PRIMERGY and PRIMEQUEST
- Storage: ETERNUS / NetApp / TDI support (opt. for single node)
- Network: Broadcom, Cisco (multi-node only)
- Software: SUSE or Red Hat Linux; optional: VMware vSphere

**Powered by FlexFrame Orchestrator management software, the setup of infrastructures optimized for SAP applications and databases is simplified and a more effective operation enabled. The predefined, preintegrated and pretested combination of servers, storage, network connectivity and software ensure the highest quality and fast time to value.**

**PRIMEFLEX for SAP Landscapes**

- Computing: PRIMERGY and PRIMEQUEST
- Storage: NetApp for shared image; ETERNUS / NetApp for database
- Network: Cisco
- Software: Fujitsu FlexFrame Orchestrator, SUSE Linux
- Optional: VMware vSphere, extension packs (e.g., from Public Cloud Groupe (PCG))

---

Helping organizations identify potential gaps across their heterogeneous database and SAP application environment using the following:

**Fujitsu inspection service for SAP solutions:**
- With this hardware-agnostic solution, Fujitsu helps customers holistically in their data-driven intelligent enterprise journeys.

**SAP process automation:**
- This solution helps optimize and automate SAP operations across organizations and ensures operational efficiency.

**Fujitsu BestPlace:**
- A method for identifying optimal SAP environments that integrates customer centricity, data-driven analysis and cost optimization, while offering flexible payment options and interactive consulting services.
Data & Storage:
Key value for our customers

The storage area offers a well-synchronized portfolio of data-centric storage solutions from a single provider with over 50 years of experience in storage.

Fujitsu provides online storage systems, data-protection solutions and tape libraries that enable customers to flexibly manage their growing data volumes while reducing costs.

Storage is coming home

Embrace Disaster Preparedness
Fujitsu Storage Products

Hybrid Storage Systems

By combining leading performance architecture with automated quality of service management, our online storage solution provides powerful features for digital growth, efficiency, and continuity.

Software-defined Storage

Fujitsu’s Software-Defined Storage (SDS) solutions are designed to manage rapid data growth, support modern workloads, and provide compatibility for multi-cloud environments.

Data-protection Appliances

Data-protection appliances from Fujitsu simplify your backup and archive infrastructure and transform your IT landscape into a genuine enabler for digital business growth, efficiency and continuity.

Tape Storage Systems

The affordable tape systems offer impressive scalability and reliability. They meet SMB requirements, thwart cyberattacks, and are certified for market-leading backup and archiving software.
Leading performance increases system utilization and consolidation, resulting in a faster return on investment (ROI).

Share and control data across multiple locations and between different applications to enhance business functionality.

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 expertise.
ETERNUS Storage

**Products**

**DX200 S5**
- **Connectivity / scalability**: max. 16 host ports / 264 drives
- **Remote Connectivity / scalability**: max. 16 host ports / 264 drives (8110 TB SSD / 2116 TB HDD)
- **Host**: 8 / 16 / 32 Gbps FC, 1 / 10 Gbps (SCSI), 12 Gbps SAS, 1 / 10 Gbps Ethernet
- **Functions**: RAID protection and redundancy; ETERNUS SF management software offers local advanced copy, thin provisioning

**DX600 S6**
- **Connectivity / scalability**: max. 32 host ports / 960 drives
- **Remote Connectivity / scalability**: max. 32 host ports / 960 drives
- **Host**: 16 / 32 / 64 Gbps FC / 10 Gbps (SCSI)
- **Functions**: 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

**DX900 S6**
- **Connectivity / scalability**: max. 64 host ports / 2,304 drives
- **Remote Connectivity / scalability**: max. 64 host ports / 2,304 drives
- **Host**: 16 / 32 / 64 Gbps FC / 10 Gbps (SCSI)
- **Functions**: 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

**DX8900 S6**
- **Connectivity / scalability**: max. 384 host ports / 4,608 drives
- **Remote Connectivity / scalability**: max. 384 host ports / 4,608 drives
- **Host**: 16 / 32 / 64 Gbps FC / 10 Gbps (SCSI)
- **Functions**: 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

**Specifications**
- **DX200 S5**: max. 16 host ports / 264 drives
- **DX600 S6**: max. 32 host ports / 960 drives
- **DX900 S6**: max. 64 host ports / 2,304 drives
- **DX8900 S6**: max. 384 host ports / 4,608 drives

**Host Specifications**
- **DX200 S5**: (8110 TB SSD / 2116 TB HDD)
- **DX600 S6**: max. raw 2,5" SAS 28.753 TB, max. raw 3,5" SAS 8.424 TB, max. raw 2,5" NVMe 2.949 TB
- **DX900 S6**: max. raw 2,5" SAS 69.304 TB, max. raw 3,5" SAS 20.304 TB, max. raw 2,5" NVMe 5.898 TB
- **DX8900 S6**: max. raw 2,5" SAS 132.710 TB, max. raw 3,5" SAS 38.880 TB, max. raw 2,5" NVMe 35.389 TB
ETERNUS SF: Flexible data management

The ETERNUS SF storage management software is the uniform management solution for the entire 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 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, reduced storage system power consumption

Hardware investment optimization through automated storage tiering

Central management for local and remote replication, enhanced business continuity with transparent failover, automated quality-of-service management
ETERNUS Storage

**Number of drives**

<table>
<thead>
<tr>
<th>AB2100</th>
<th>AB3100</th>
<th>AB5100</th>
<th>AB6100</th>
</tr>
</thead>
<tbody>
<tr>
<td>max. 96</td>
<td>max. 264</td>
<td>max. 120</td>
<td>max. 444</td>
</tr>
</tbody>
</table>

**Host interfaces**

<table>
<thead>
<tr>
<th>AB2100</th>
<th>AB3100</th>
<th>AB5100</th>
<th>AB6100</th>
</tr>
</thead>
<tbody>
<tr>
<td>4/8/16/32Gbps FC / 10/25Gbps iSCSI / 12Gbps SAS</td>
<td>8/16/32Gbps FC / 32Gbps NVMe over FC / 100Gbps NVMe over InfiniBand / 100Gbps NVMe over RoCE / 25/10Gbps iSCSI / 10Gbps IB / 100Gbps IB SRP</td>
<td>8/16/32Gbps FC / 32Gbps NVMe over FC / 100Gbps NVMe over InfiniBand / 100Gbps NVMe over RoCE / 25/10Gbps iSCSI / 100Gbps IB / 100Gbps IB SRP</td>
<td>8/16/32Gbps FC / 32Gbps NVMe over FC / 100Gbps NVMe over InfiniBand / 100Gbps NVMe over RoCE / 25/10Gbps iSCSI / 100Gbps IB / 100Gbps IB SRP</td>
</tr>
</tbody>
</table>

**Functions**

**Performance**
- End-to-end NVMe
- Automatic load balancing
- Secondary cache

**Reliability**
- Encrypted drives
- Authentic key management
- Data guarantee
- Data protection
- Snapshot, mirroring and copy

**Flexibility**
- Storage virtualization
- REST API
- Cloud backup
- Multiple drive sizes

**Features**

- Number of drives:
  - AB2100: max. 96
  - AB3100: max. 264
  - AB5100: max. 120
  - AB6100: max. 444

- Host interfaces:
  - 4/8/16/32Gbps FC / 10/25Gbps iSCSI / 12Gbps SAS
  - 8/16/32Gbps FC / 32Gbps NVMe over FC / 100Gbps NVMe over InfiniBand / 100Gbps NVMe over RoCE / 25/10Gbps iSCSI / 100Gbps IB / 100Gbps IB SRP

- Performance:
  - End-to-end NVMe
  - Automatic load balancing
  - Secondary cache

- Reliability:
  - Encrypted drives
  - Authentic key management
  - Data guarantee
  - Data protection
  - Snapshot, mirroring and copy

- Flexibility:
  - Storage virtualization
  - REST API
  - Cloud backup
  - Multiple drive sizes

**Storage Specifications**

- **AB2100**:
  - 1469 TB, 300k IOPS

- **AB3100**:
  - 4687.2 TB, 670k IOPS

- **AB5100**:
  - 1836 TB, 1M IOPS

- **AB6100**:
  - 7927.2 TB, 300k IOPS

**Products**
## ETERNUS Storage Products

<table>
<thead>
<tr>
<th>Model</th>
<th>Number of Drives</th>
<th>Host Interfaces</th>
<th>Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>HB1110</td>
<td>max. 24, 13 TB SSD / 432 TB HDD</td>
<td>4/8/16Gbps FC / 10Gbps iSCSI</td>
<td>-</td>
</tr>
<tr>
<td>HB1200</td>
<td>max. 48, 122 TB SSD / 86 TB HDD</td>
<td>4/8/16/32Gbps FC / 10/25Gbps iSCSI / 12Gbps SAS</td>
<td>Performance: • End-to-end • Containers and microservices • Secondary cache Reliability: • Encrypted drives • Authentic key management • Data guarantee • Data protection • Snapshot, mirroring and copy Flexibility: • Storage virtualization • REST API • Dynamic disk pools • Multiple drive sizes</td>
</tr>
<tr>
<td>HB2100</td>
<td>max. 192, 1120 TB SSD / 3456 TB HDD</td>
<td>4/8/16/32Gbps FC / 10/25Gbps iSCSI / 12Gbps SAS</td>
<td>-</td>
</tr>
<tr>
<td>HB2200</td>
<td>max. 168, 1468 TB SSD / 2894.4 TB HDD</td>
<td>4/8/16/32Gbps FC / 10/25Gbps iSCSI / 12Gbps SAS</td>
<td>-</td>
</tr>
</tbody>
</table>
## ETERNUS Storage

### Products

<table>
<thead>
<tr>
<th></th>
<th>Number of drives</th>
<th>Host interfaces</th>
<th>Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HB2300</strong></td>
<td>max. 192,</td>
<td>1133 TB SSD / 3456 TB HDD</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4/8/16/32Gbps FC / 10/25Gbps / iSCSI / 12Gbps SAS</td>
<td>Performance</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>End-to-end</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Containers and microservices</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Secondary cache</td>
</tr>
<tr>
<td><strong>HB5100</strong></td>
<td>max. 444,</td>
<td>1836 TB SSD / 7927 TB HDD</td>
<td>Reliability</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4/8/16/32Gbps FC / 32Gbps / NVMe over FC</td>
<td>Encrypted drives</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10/25Gbps / iSCSI / 100Gbps / NVMe over InfiniBand / 100Gbps NVMe</td>
<td>Authentic key management</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HB5200 over Ethernet / 12Gbps SAS</td>
<td>Data guarantee</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Data protection</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Snapshot, mirroring and copy</td>
</tr>
<tr>
<td><strong>HB5200</strong></td>
<td>max. 480,</td>
<td>1562 TB SSD / 8640 TB HDD</td>
<td>Flexibility</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4/8/16/32Gbps FC / 32Gbps / NVMe over FC</td>
<td>Storage virtualization</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10/25Gbps / iSCSI / 100Gbps / NVMe over InfiniBand / 100Gbps NVMe</td>
<td>REST API</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NVMe over InfiniBand / 100Gbps NVMe</td>
<td>Dynamic disk pools</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HB5200 over Ethernet / 12Gbps SAS</td>
<td>Multiple drive sizes</td>
</tr>
</tbody>
</table>
High performance partnership
Fujitsu and NetApp

Products

<table>
<thead>
<tr>
<th>Products</th>
<th>Specifications</th>
<th>Description</th>
<th>Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFF C190</td>
<td>50 TiB</td>
<td>Unified, all-flash, scale-out storage</td>
<td>Made for growing requirements</td>
</tr>
<tr>
<td>AFF 250</td>
<td>35 PB</td>
<td></td>
<td>Rich data management</td>
</tr>
<tr>
<td>A400 / A800 / A900</td>
<td>316.3 PB - 702.7 PB</td>
<td>Easy cloud connection</td>
<td></td>
</tr>
<tr>
<td>Products</td>
<td>Specifications</td>
<td>Description</td>
<td>Functions</td>
</tr>
<tr>
<td>---------------</td>
<td>----------------</td>
<td>----------------------------------------------------------</td>
<td>-----------------------------------------------------------------</td>
</tr>
<tr>
<td>FAS2750 /</td>
<td></td>
<td>Max. capacity</td>
<td>15 PB / 27.6 PB</td>
</tr>
<tr>
<td>FAS2820</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FAS3000 /</td>
<td></td>
<td></td>
<td>15 PB / 27.6 PB</td>
</tr>
<tr>
<td>FAS8700 /</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FAS9500</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FAS8300 /</td>
<td></td>
<td></td>
<td>15 PB / 27.6 PB</td>
</tr>
<tr>
<td>FAS8700 /</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FAS9500</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Software-defined storage made easy

Products

Qumulo file data platform

NetApp StorageGRID

Architecture | Data access | Main use cases | Highlights
--- | --- | --- | ---
File storage  |  |  |  
  • File share  
  • Video surveillance  
  • Analytics  
  • Hybrid data centers  
  • xSP  
  • HPC  |  |  |  
  • All-NVMe cluster (option)  
  • Automation / REST APIs  
  • Real-time analytics  
  • Tens of billions of files (of any file size)  
  • Flash-first architecture  |  |  |  
Object storage  |  |  |  
  • Media streaming  
  • Data analytics  
  • OLTP and OLAP environments  |  |  |  
  • Intelligent policy-driven data management  
  • Massively scalable and easy-to-use global data repository for unstructured data  
  • Support of standard object storage protocols like AWS S3 and OpenStack Swift  
  • Support of file system storage protocols like NFS and SMB  
  • Hybrid cloud enabled  |  |  |  
Scale-out  |  |  |  
  |  |  |  
  |  |  |  
  |  |  |  

Main use cases

- Data access
- Architecture
- Scale-out
- Object storage
- File storage
# Data protection made easy

## Data protection appliances

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Product</th>
<th>Key feature</th>
<th>Data protection functions</th>
<th>Usability</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-315 TB</td>
<td>CS800</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>
<td>Easy setup in just a few steps, automated operation, simple user interface for maintenance and analytics</td>
</tr>
<tr>
<td>51-2040 TB</td>
<td>CS800 Enterprise</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## ETERNUS CS8000 backup appliance

- **ETERNUS CS8000**
  - Central storage for backup, archive, second-tier and object data
  - **Scale-up**
    - Branch-office backup: CS8050 VTL 94 TB (up to one back-end tape library)
    - Scale-up: CS8200 19 TB - 20 PB (up to 10 back-end tape libraries)
  - Scale-out: Split-site CS8400 / CS8800 38 TB - 350 PB (up to 10 back-end tape libraries)
  - Archive: NAS (NFS / CIFS), COSS (S3) 19 TB - 20 PB

## ETERNUS CS800 backup appliance

- **ETERNUS CS800**
  - Usable capacity after data reduction 11-315 TB
  - Scale: CS800 Scale 94 TB (up to one back-end tape library)
  - Enterprise: CS800 Enterprise 19 TB - 2040 TB

---

## Additional Details

- **Data protection functions**:
  - Disk-based backup and recovery, replication, path-to-tape, multiprotocol support (NAS, VTL, OST), backup target in the cloud

- **Usability**:
  - Easy setup in just a few steps, automated operation, simple user interface for maintenance and analytics

---

## Further Information

Consult the official documentation or contact customer support for more detailed specifications and configurations.
## Data protection made easy

### Tape libraries

<table>
<thead>
<tr>
<th>Product</th>
<th>No. of slots / max. capacity</th>
<th>Interface</th>
<th>Max. drives</th>
<th>Drive types</th>
</tr>
</thead>
<tbody>
<tr>
<td>LT20 S2</td>
<td>8 slots / up to 144 TB</td>
<td>SAS or FC</td>
<td>1</td>
<td>LTO-9 / LTO-8 / LTO-7 drives</td>
</tr>
<tr>
<td>LT140</td>
<td>20 - 560 slots / up to 10,080 TB</td>
<td>SAS or FC</td>
<td>42</td>
<td></td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>Product</th>
<th>No. of slots / max. capacity</th>
<th>Interface</th>
<th>Max. drives</th>
<th>Drive types</th>
</tr>
</thead>
<tbody>
<tr>
<td>i3</td>
<td>25 - 400 slots / up to 7,200 TB</td>
<td>SAS or FC</td>
<td>24</td>
<td>LTO-9 / LTO-8 / LTO-7 drives</td>
</tr>
<tr>
<td>i6</td>
<td>100 - 800 slots / up to 14,400 TB</td>
<td>SAS or FC</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>i6000</td>
<td>100 - 14,100 slots / up to 253,800 TB</td>
<td>SAS or FC</td>
<td>192</td>
<td></td>
</tr>
</tbody>
</table>
Commvault Data Services
Simplifies an IT organization's ability to manage data across its lifecycle with integrated modules for backup and recovery, archive, replication, analytics and more. Commvault HyperScale™ software is a powerful, cloud-ready solution bringing scale-out infrastructure to the Commvault data platform.

Veeam Backup & Replication
The powerful, reliable and easy to use software reduces operational overhead with flexibility that fits your business and market-leading reliability that you can count on. It delivers dependable availability across all cloud, virtual and physical workloads with a simple, flexible and reliable solution.

Veritas
NetBackup
Simplifies the protection of your information-driven enterprise by automating, advanced technologies and standardizing operations across applications, platforms and virtual environments.

EnterpriseVault
The industry's most widely deployed archiving solution, is a platform that bridges the gap between a company's legal department and IT by adding intelligence to the way organizations store, manage and discover information.
## Data protection made easy

**Integrated appliances**

<table>
<thead>
<tr>
<th>Usable capacity</th>
<th>Node type</th>
<th>Description</th>
<th>Data-protection functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 - 339 TB</td>
<td>N12</td>
<td>Fully-tested, easy-to-set-up solution based on Fujitsu Server PRIMERGY to protect data in physical, virtual or cloud-based data centers</td>
<td>Backup and recovery, deduplication, compression, encryption, archiving, application support, snapshot, replication, tape and cloud backup</td>
</tr>
<tr>
<td>151 - 678 TB</td>
<td>N24</td>
<td>All-in-one backup appliance provides midsized-to-large environments with a customizable, self-contained solution for professional backup</td>
<td>Backup and recovery, deduplication, compression, encryption, archiving, application support, snapshot, replication, tape and cloud backup</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Usable capacity</th>
<th>Product</th>
<th>Description</th>
<th>Data-protection functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 - 442 TB</td>
<td>NBU 5260</td>
<td>All-in-one backup appliance provides midsized-to-large environments with a customizable, self-contained solution for professional backup</td>
<td>Backup and recovery, deduplication, compression, encryption, archiving, application support, snapshot, replication, tape and cloud backup</td>
</tr>
<tr>
<td>132 - 2110 TB</td>
<td>NBU 5360</td>
<td>All-in-one backup appliance provides midsized-to-large environments with a customizable, self-contained solution for professional backup</td>
<td>Backup and recovery, deduplication, compression, encryption, archiving, application support, snapshot, replication, tape and cloud backup</td>
</tr>
</tbody>
</table>
Holistic approach for simplifying data center management

Fujitsu Software Infrastructure Manager (ISM)

The Fujitsu Software Infrastructure Manager (ISM) is a converged data center management solution that provides organizations with centralized control over the entire infrastructure, including servers, storage, networking, cloud management software, as well as power and cooling, all through a single user interface.
Fujitsu Software
Infrastructure Manager

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

Product highlights include:

- **Converged management**
- **Increased agility**
- **Accelerated growth and innovation**

- Simplified IT operations and consistent management across server, storage and networking
- Intuitive software providing actionable insights leading to reduced customer response time
- Streamlined delivery of IT services to speed the transition to hybrid cloud
Fujitsu Software Infrastructure Manager

Centralized, easy, clear
- Node management
- Health status monitoring and control
- Capacity / Threshold management
- Power management

Simple, experienced, efficient
- Converged management
- Auto discovery
- Virtual-IO management
- Network topology management

Remote, up to date, verifiable
- Remote management
- Update management
- Logging and auditing

Seamless, manage uniformly
- In Enterprise management
- In vendor specific management
- Monitor third-party platforms

Fast, comfortable, reliable
- Automate device configuration
- Mass OS installation

Control | Dynamize | Maintain
Integrate | Deploy
The holistic approach for simplifying data center management

Two options to support different business requirements:

**ISM Essential Edition - Control, maintain, dynamize**
- Provides essential monitoring capabilities and update functions across all supported devices, including storage and network switches
- No license costs, optional support license available

**ISM Advanced Edition - deploy, control, maintain, dynamize, integrate**
- Full-featured advanced version that provides comprehensive and robust infrastructure management
- Also monitors third-party vendor devices in addition to integrating into VMware, Microsoft System Center and Ansible environments
Fujitsu Software Infrastructure Manager

The holistic approach for simplifying data center management

Take the first step with ISM Essential by downloading it for free:

Easy upgrade path from ISM Essential to ISM Advanced!

Find out more: fujitsu.com/infrastructuremanagement
Modernize with Windows Server 2022

The cloud-ready operating system that boosts on-premises investments with hybrid-capabilities. Transform your IT environment with the latest hardware and software technologies by upgrading to the latest Fujitsu PRIMERGY Server generation and Windows Server 2022.

- By combining the united power of Windows Server 2022 and Fujitsu PRIMERGY, businesses can elevate their security posture, tackle any workload, and take advantage of hybrid capabilities.

- Experience the benefits of cloud-ready technology and innovative solutions for a more efficient and productive organization.

- Expandable tower servers, versatile rack servers, density-optimized multinode servers as well as GPU servers optimized for AI, Data-Science, VDI, HPC and graphics.

- Windows Server 2022 enables direct business benefits—like better data analysis and enhanced security—as well as the flexibility to migrate to the cloud.
Top new features in Windows Server 2022

Hybrid capabilities with Microsoft Azure
Achieve greater IT efficiency and cost savings by extending your datacenter to Microsoft Azure using a cloud-ready operating system with hybrid capabilities.

Advanced multilayer security
Help protect your business apps and data with multilayer security capabilities like the secured-core server and enhanced secure connectivity.

More secure remote working
Enable remote users to run applications and desktops from nearly anywhere with Remote Desktop Services, a platform that helps deliver more secure virtualized apps, remote desktop access, and simplified management.

Modernized server infrastructure
Transform infrastructure and applications with flexible solutions like software-defined storage and networking and a modern app platform.