

# ftServer®

A fully integrated continuously available platform that's easy to deploy, manage, and service—from the enterprise to the edge.

**Stratus® ftServer—complete with hardware, software and services—is an operationally simple platform that will keep your applications running with no downtime or data loss.**

In today's business world, seconds matter. Exceeding your recovery time and recovery point objectives can have wide ranging economic, security and legal consequences. In some cases, recovering from a failure, no matter how quick, is simply not an option. Enterprises need failure prevention—not failure recovery.

Compounding the issue is the growing scarcity of IT resources, especially at remote plants at the edge of computer networks. At these distributed locations, not only is continuous availability of key applications required, the infrastructure supporting these services must be maintained by non-technical staff. Enterprises need continuous availability that's easy to deploy, easy to manage, and easy to service—not just in their data centers, but at the edge of their corporate networks.

Stratus ftServer is a fully integrated, continuously available hardware and software solution for running tier 1 business critical workloads and manufacturing operations and control applications. Offering better than 5 nines availability, ftServer eliminates unplanned downtime and data loss, and ensures all transactions are processed and applications are available, helping companies maximize revenue, production quality, and productivity—from the enterprise to the edge. Unlike other high availability solutions, ftServer is easy to deploy, manage and service, making it ideal for remote locations, or environments with IT resource constraints. A single, turnkey solution leverages industry standard components to deliver industry leading RAS, accelerating time to value, simplifying management, and lowering total cost of ownership.

## Key benefits

- **No unplanned downtime:** Greater than 5 nines availability through redundant components, lockstep firmware, and data synchronization
- **No data corruption or data loss:** All transactions processed because the system keeps operating despite component failure
- **Faster time to value:** Easy to deploy and manage, with no ISV application modifications or failover scripts required
- **Increased operational efficiency:** Self-monitoring, self-diagnosing, self-alerting systems save you time and effort

“If I had to give three words to describe our Stratus experience, it would be reliability, configurability and sustainability.”

**Steve Adams, Columbia Pipeline Group**  
Lead Automation Electrical Engineer



## ftServer features

A fully integrated hardware and software solution for delivering continuously available applications and data services, Stratus ftServer helps companies maximize revenue, production quality, and productivity. Five key features help make ftServer easy to deploy, easy to manage, and easy to service—both in the data center, and at the edge:



### Automated Uptime Layer

Unique to Stratus, redundant field programmable gate arrays, data paths, and lockstep firmware provide the processor synchronization, data replication, and logic needed to ensure continuous availability, even in the event of a hardware component failure.



### Active Service Architecture

ftServer's automated self-monitoring, alerting, self-diagnosing, and remediation capabilities are enabled by its Active Service Architecture. By simplifying ftServer monitoring and management, and by filtering issues which require action, Stratus saves companies time and effort.



### Single system with redundant hardware

Every single ftServer system is made up of two identical customer replaceable units (CRUs) – each with their own processors, memory, and storage. All redundant components and subsystems are packaged as a single system, reducing licensing costs and simplifying management.



### Hot swappable customer replaceable units

ftServer is designed for serviceability, with hot swappable CRUs that can be removed without powering down the system, and replaced without using special tools. That and automatic data re-synchronization make ftServer suitable for deployment in remote manufacturing locations, or locations with limited IT resources.



### Industry standard components

ftServer uses the same chipsets, DIMMs, and drives, as those found in other industry standard x86 systems. It also uses standard shrink-wrapped operating system and virtualization software, for ease of management and faster time to value.

## ftServer models

ftServer is easy to deploy, easy to manage, and easy to service. Three different ftServer models meet most every enterprise workload, environment, and budget.

### ftServer 2910

Affordability for stable, fixed standalone applications in remote offices, branch offices, or shop floor locations

### ftServer 4910

Versatility for rapidly growing or evolving applications in regional offices, remote plants, or regional data centers

### ftServer 6910

High performance for data-intensive or transaction-intensive applications in larger remote plants or corporate data centers





ftServer System Specifications		2910	4910	6910
<b>Processors</b>				
Processor(s)		1 x Intel® Xeon® Silver 4210 processor 2.2 GHz	2 x Intel® Xeon® Silver 4210 processor 2.2 GHz	2 x Intel® Xeon® Gold 5220 processor 2.2 GHz
Intel® Hyper-threaded Cores		10 per processor (10 per CRU)	10 per processor (20 per CRU)	18 per processor (36 per CRU)
Threads		20 per processor (20 per CRU)	20 per processor (40 per CRU)	36 per processor (72 per CRU)
Intel UPI speed		9.6 GT/s	9.6 GT/s	10.4 GT/s
Maximum memory bandwidth		76.8 GB/s	192 GB/s	213.3 GB/s
<b>Memory</b>				
Min/max memory		32 GB / 256 GB DDR4	64 GB / 640 GB DDR4	64 GB / 1280 GB DDR4
DIMM slots		16 (8 per CRU)	40 (20 per CRU)	40 (20 per CRU)
<b>I/O Subsystem</b>				
Integrated PCIe® adapter slots		4 PCIe 3 x8 (2 per CRU)	4 PCIe 3 x8 (2 per CRU)	4 PCIe 3 x8 (2 per CRU)
Additional PCIe adapter slots		N/A	4 PCIe 3 x8 (optional) (2 per CRU)	4 PCIe 3 x8 (included) (2 per CRU)
<b>Storage Subsystem</b>				
Internal system drive bays		12 Gb SAS (8 per CRU) OR 12 Gb SAS (2 per CRU), NVMe PCIe Gen3 x4 U.2 (4 per CRU)	12 Gb SAS (8 per CRU) OR 12 Gb SAS (2 per CRU), NVMe PCIe Gen3 x4 U.2 (4 per CRU)	12 Gb SAS (8 per CRU) OR 12 Gb SAS (2 per CRU), NVMe PCIe Gen3 x4 U.2 (4 per CRU)
Internal 2.5" drives	Please visit <a href="http://www.stratus.com/solutions/platforms/ftserver/system-specifications/disk-drive-matrix/">www.stratus.com/solutions/platforms/ftserver/system-specifications/disk-drive-matrix/</a> for a complete list of supported disk drives			
<b>ftScalable Storage Subsystem</b>				
Expansion drive slots (RAID)		Up to 144	Up to 144	Up to 144
RAID levels		1, 5, 6, 10	1, 5, 6, 10	1, 5, 6, 10
Drive types	Please visit <a href="http://www.stratus.com/solutions/platforms/ftserver/system-specifications/disk-drive-matrix/">www.stratus.com/solutions/platforms/ftserver/system-specifications/disk-drive-matrix/</a> for a complete list of supported disk drives			
<b>Embedded I/O</b>				
10/100/1000 Ethernet ports		4 (2 per CRU)	4 (2 per CRU)	4 (2 per CRU)
10 Gb Ethernet ports		N/A	4 (2 per CRU)	4 (2 per CRU)
10/100 Management Ethernet ports		2 (1 per CRU)	2 (1 per CRU)	2 (1 per CRU)
Serial (com) ports		2 (9-pin) ports per system	2 (9-pin) ports per system	2 (9-pin) ports per system
USB ports		4 USB 2.0 (redundant), 4 USB 3.0 (non-redundant)	4 USB 2.0 (redundant), 4 USB 3.0 (non-redundant)	4 USB 2.0 (redundant), 4 USB 3.0 (non-redundant)
<b>Manageability</b>				
Baseboard management controller		Standard	Standard	Standard
Virtual Technician Module (VTM)		Standard	Standard	Standard
Graphics adapter		1 VGA port per system	1 VGA port per system	1 VGA port per system

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<b>PCI Adapters</b>			
1 Gb dual-port Ethernet	Up to 4 optional (2 per CRU)	Up to 8 optional (4 per CRU)	Up to 8 optional (4 per CRU)
10 Gb dual-port Ethernet server adapter (fiber & copper)	N/A	Up to 4 optional (2 per CRU)	Up to 4 optional (2 per CRU)
12 Gb SAS 8-port host bus adapter for tape	Up to 2 optional (non-redundant)	Up to 2 optional (non-redundant)	Up to 2 optional (non-redundant)
16 Gb Fibre Channel for external storage	Up to 4 optional (2 per CRU)	Up to 4 optional (2 per CRU)	Up to 4 optional (2 per CRU)
<b>Serviceability</b>			
Hot-swappable components	CPU / I/O module, disks	CPU / I/O module, disks	CPU / I/O module, disks
<b>Operating System*</b>			
Microsoft	Windows Server with Hyper-V™ virtualization	Windows Server with Hyper-V™ virtualization	Windows Server with Hyper-V™ virtualization
VMware	vSphere	vSphere	vSphere
<b>Power and Packaging</b>			
Input voltage	100-127, 200-240 VAC; 50 Hz, 60 Hz	100-127, 200-240 VAC; 50 Hz, 60 Hz	100-127, 200-240 VAC; 50 Hz, 60 Hz
System dimension (H x W x D)	7.0" (4U) x 17.5" x 30.1" with bezel	7.0" (4U) x 17.5" x 30.1" with bezel	7.0" (4U) x 17.5" x 30.1" with bezel
Weight (fully loaded including rails)	54.43 kg (120 lbs.)	54.43 kg (120 lbs.)	54.43 kg (120 lbs.)

\* Consult your sales representative for specific OS availability.

## ftServer options

Stratus offers a variety of certified options to easily extend your continuously available platform. From value added managed support plans, to modular storage—get the additional capabilities that you need, to satisfy your unique enterprise and edge computing requirements.

### ftServices

A variety of managed support plans and professional services are available to ensure your systems are up to date and operating at peak efficiency. You'll get the help you need, when you need it. Total Assurance, System Assurance, Extended Platform Support, and Platform Support managed plans are available for different applications, environments, and use cases. [More+](#)

### ftScalable

Specifically designed to complement ftServer, this hybrid storage array helps you easily meet your growing storage needs, while also ensuring continuous availability and data integrity. Manage both hot and cold storage with real time data tiering, and protect your sensitive data at rest with encrypted disk technology. [More+](#)

## Find out more

For more information, or to purchase Stratus products, please call 1-800-STRATUS, or visit [www.stratus.com](http://www.stratus.com).



[www.stratus.com](http://www.stratus.com)

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