

Fact Sheet

"Cluster-in-a-Box" from Fujitsu

The Fujitsu all-in-one solution based on Microsoft® Windows Server® 2012

Surviving in today's business environment often means moving quickly and keeping things simple. With customers demanding more and more special treatment and the growing complexity of applications, who has time to fiddle with long drawn out deployments? Wouldn't it be great if someone could simply roll in a box, plug it in and your business needs were suddenly easily met?

The Fujitsu Cluster-in-a-Box Solution may not be quite that simple—but it comes pretty close. Not only will you be provided a neat, easily deployed package, you will also get a fail-safe infrastructure based on Cloud eXtension servers with Windows Server 2012 that provides easy scalability and investment protection.

Key Pillars

Fujitsu PRIMERGY CX420

When you need a system that can painlessly grow with your business:

- Scale-Out Smart by packaging 4 independent server nodes and up to 24 local storage drives into a consolidated 2U rack enclosure.
- New compact server node density to realize large HPC and Cloud Computing scenarios at lower overall costs

The PRIMERGY® CX420 S1 Multi-Node server system is a high density, multi-node scale-out server platform. It combines 2 or 4 dual-processor nodes and up to 24 hard drives in a 2U rack chassis. Power and cooling are shared, offering increased efficiency over standard rack servers. Hot-plugging of server nodes, power supplies and local storage drives provides enhanced availability and higher ease of use. Conventional front-to-back cooling, rear-side external connectivity allows the PRIMERGY CX420 S1 to be installed in existing racks with standard air conditioning infrastructures.

Fujitsu offers two server nodes that fit in the PRIMERGY CX420 S1 server chassis: the PRIMERGY CX250 S1 server node which is optimized for standard or cloud applications, and the PRIMERGY CX272 S1 which is designed as an HPC node and integrates GPGPU technology to accelerate complicated calculations. The PRIMERGY CX420 multi-node system combines high density, powerful processing capability, and storage scalability into a flexible solution that is ideal for HPC environments, virtual client connectivity, storage virtualization, and medium sized application deployments.

Microsoft Windows Server 2012

This is quite possibly the most significant release of Windows Server ever.

- Multitenant infrastructure that provides a complete platform for building a private cloud
- Innovative new capabilities that enable you to build dynamic storage and availability solutions in which workloads, networks, and storage become more flexible, efficient, and available than ever before

What better way to simplify your IT life than by wrapping world-class servers in the robust and easy to deploy Windows Server® 2012. Windows Server currently powers many of the worlds' largest datacenters, enables small businesses around the world, and delivers value to organizations of all sizes in between. Building on this legacy, Windows Server 2012 delivers hundreds of new features and enhancements spanning virtualization, networking, storage, user experience, cloud computing, automation, and more. Simply put, combined with Fujitsu PRIMERGY servers, Windows Server 2012 helps you transform your IT operations to reduce costs and deliver a whole new level of business value.



Benefits

Cluster-in-a-Box

One box for your solution

- Multiple server nodes, shared storage and fully redundant components avoiding single points of failure
- Pre-packaged and pre-connected into a single box
- Tailor-made for midmarket organizations and branch offices with limited resources, budgets and space
- Continuous availability at affordable costs to protect important data and business critical services
- Lower costs, higher performance, and greater productivity, enabled by servers that also scale easily to your requirements

Solution summary**Windows Server 2012**

- **Server Virtualization:** Gain cost savings and optimize server hardware investments by consolidating multiple server roles as separate virtual machines.
- **Networking:** Helps reduce networking complexity while facilitating more efficient and cost-effective networking management
- **Remote Access:** Provides more efficient, secure, remote access to applications, data, or an entire desktop environment.
- **Identity & Security:** Makes it easier for administrators to configure, manage, and monitor users, resources, and devices to ensure proper security and access.
- **Storage & Availability:** Helps you manage the balance between delivering capacity on-demand while managing operational overhead and controlling capital expenditures.
- **Server Management:** Offers excellent total cost of ownership as an integrated platform with comprehensive, multi-server manageability.
- **Web & Application Platform:** Provides enormous flexibility for hosting web-based applications on-premises and in the cloud, giving enterprises and hosting providers an advanced server platform that can provide the flexibility, scalability, and compatibility for creating and managing private clouds and running vital applications

PRIMERGY CX420

Fujitsu PRIMERGY CX420 with:

- CX272 Cluster Node 1
- CX272 Cluster Node 2
- 2 x SAS Extenders

CiB with Fujitsu PRIMERGY CX420 offers standard:

- 2 x 1400 Watt PSU with 92% efficiency (80Plus Gold), redundant, hot-plug
- 4 x 80 mm fan unit, non-hp, non-redundant
- 12 x 3.5" hot-plug SAS HDD

About Fujitsu America

Fujitsu America, Inc., is a leading ICT solutions provider for organizations in the U.S., Canada and the Caribbean. Fujitsu enables clients to meet their business objectives through integrated offerings and solutions, including consulting, systems integration, managed services, outsourcing and cloud services for infrastructure, platforms and applications; data center and field services; and server, storage, software and mobile/tablet technologies.

For more information, please visit: <http://solutions.us.fujitsu.com/> and <http://twitter.com/fujitsuamerica>

Fujitsu platform solutions

Dynamic Infrastructures

As a global IT infrastructure provider, Fujitsu offers a complete range of servers designed to fill any role in today's business. Whether your business requires affordable entry-level servers, compact and scalable blade systems, or advanced multiprocessor servers capable of handling the most demanding data center applications, the PRIMERGY® line delivers Intel® Architecture servers with the rock-solid reliability and industry-leading performance you need.

In addition to Fujitsu PRIMERGY servers, Fujitsu provides a full range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

- Fujitsu M10 SPARC servers for Solaris
- PRIMEQUEST mission-critical x86 servers
- ETERNUS storage systems

Fujitsu Services and Software

- Interstage application infrastructure software
- Managed, Application, Business, and Cloud Infrastructure services

More information

For information on our Fujitsu M10 SPARC servers:

<http://solutions.us.fujitsu.com/www/content/products/servers/sparc/sparc-m10.php>

For information on our PRIMEQUEST servers:

<http://solutions.us.fujitsu.com/www/content/products/servers/primequest/index.php>

For information on our PRIMERGY x86 servers:

<http://solutions.us.fujitsu.com/www/content/products/servers/primergy/index.php>

For information on our ETERNUS storage systems:

<http://solutions.us.fujitsu.com/www/content/products/storage/ETERNUS/index.php>

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at: www.fujitsu.com/global/about/environment/



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Contact

FUJITSU AMERICA, INC.
Address: 1250 East Arques Avenue Sunnyvale, CA 94085-3470, U.S.A.
Telephone: 800 831 3183 or 408 746 6000
Website: <http://solutions.us.fujitsu.com>
Contact Form: <http://solutions.us.fujitsu.com/contact>