

Data sheet

FUJITSU Integrated System PRIMEFLEX Cluster-in-a-box based on CX420-S

PRIMEFLEX Cluster-in-a-box
Your fast track to hyper-converged continuous operation

FUJITSU Integrated System PRIMEFLEX

Building datacenter infrastructures for a certain use case can be complex, error-prone and time-consuming. Moreover it requires a deep knowledge of all components involved and their dependencies to each other. Therefore, a do-it-yourself approach entails many risks for businesses.

These risks can be avoided by using integrated systems. FUJITSU Integrated System PRIMEFLEX is a pre-defined, pre-integrated and pre-tested combination of servers, storage, network connectivity and software. While management software is mandatory, software for virtualization, automation and orchestration, as well as databases and applications may be optionally included.

PRIMEFLEX encompasses factory-installed solutions which are ready-to-run and reference architectures which can be easily adjusted to customer-specific requirements. Along with its reference architectures, Fujitsu makes detailed configuration and installation descriptions available as a standard. Optional deployment and integration services ensure a smooth integration into the on-site environment. To ensure simplified operation and maintenance of PRIMEFLEX solutions, Fujitsu provides support on solution level, and further datacenter services including managed services and hosting.

PRIMEFLEX Cluster-in-a-box based on PRIMERGY CX420-S

With PRIMEFLEX Cluster-in-a-box you receive a hyper-converged solution including pre-installed Microsoft Windows Server 2012 R2 and pre-configured as a high availability cluster. It offers you an optimum combination of server, storage, and networking components in one compact 2U rack enclosure. The economic design provides continuous availability at an attractive price. PRIMEFLEX Cluster-in-a-box based on PRIMERGY CX420-S is a complete 'physical' Microsoft server environment. Just turn it on, spend some minutes with our self adopted configuration wizard and you are ready-to-work.

- 1x PRIMERGY CX420 S1
- 2x 1,200W Power Supply Units
- 4x 1TB NL-SAS HDDs
- 2x PRIMERGY CX272 S1 Server, each with
 - 2x Intel® Xeon® processor E5-2609
 - 16 GB main memory
 - Dual port SAS HBA
 - 2x 500GB SATA HDDs (RAID 1)
 - 1x Microsoft Windows Server 2012 R2 Standard (2 CPU)



One single order Number

Everything pre-configured, pre-installed and pre-tested to provide you with continuous availability some minutes after you receive PRIMEFLEX Cluster-in-a-box. Just use our single order code: **BDL:1461V135-CLB32**



Features and benefits

MAIN FEATURES

PRIMEFLEX Cluster-in-a-box

- Integrated availability mechanisms with failover clustering and redundant hardware components
- Single order code (SKU)
- Pre-tested configuration
- Pre-configured, pre-installed configuration

Based on PRIMERGY CX420

- Hyper-converged platform
- One enclosure for two servers with shared power and cooling
- No sharing of fabrics, I/O or management components
- Purely based on industry standards

And Microsoft Windows Server 2012 R2 Standard

- Windows Server 2012 R2
- Storage Spaces

BENEFITS

- Business continuity
- Easy to buy
- No implementation risk
- Ready-to-work a few minutes after receipt
- No separate disk storage system and SAN needed
- Up to 50% less space than traditional servers, all components are optimized to each other
- Lowered complexity vs. blade servers
- Seamless integration
- Enterprise-grade platform to cost-effectively optimize your business
- Option to use SSDs as I/O cache for every data access
- Use SSD and HDD in combination as tiered storage space incl. automated storage tiering
- Cost-effective and reliable usage of storage

Technical details

PRIMEFLEX Cluster-in-a-box components

based on PRIMERGY CX420 S1

Housing		System	1x PRIMERGY CX420 S1
		Form factor	Rack (2U)
		Power Supplies	2x PRIMERGY Power Supplies 1200W 2x Power cords 16A IEC320 C19->CEE 7/7
		HDD	4x 3.5" 1TB 7,2K NL-SAS Disks
Cluster Server Node 1 / 2, each with			
Hardware		CPU	1x PRIMERGY CX272 S1 2x Intel® Xeon® processor E5-2609
		Memory	16GB
		LAN onboard	1x 1 Gb/s dual port Ethernet 1x 1 Gb/s internal Ethernet exclusively for cluster-heartbeat
		SAS	SAS Ctrl., SAS/SATA 6 Gbit/s
		Disk	2x local 2.5" 500GB SATA Disks
Operating System		1x Windows Server 2012 R2 Standard (2CPU) OEM Cluster Services - turned on	
Software		Implementation Management	Fujitsu Out-Of-the-Box-Experience (OOBE) Wizard Fujitsu ServerView Agents for Windows Server 2012 R2

Maintenance & Support Service

Recommended, not included. For details please refer to the Classic 5x9 or 7x24 Fujitsu Support Pack data sheets

Installation Specification

Dimensions (W x D x H)		447 x 774.7 x 87.3 mm
Weight		up to 38 kg
Power	Voltage	100 V - 240 V
	Frequency	50 Hz - 60 Hz
	Current	12 A
	Electric value notes	For details see Power Configuration Tool.
Environmental Conditions	Temperature (Operating)	10 - 35°C
	Humidity (Operating)	10 - 85% RH
Altitude		3000 m

Distribution, Implementation, Documentation, Support

User Interface	English (default), German, French, Italian, Japanese, Spanish
Implementation	By the end customers or through Fujitsu partners in accordance with the installation guide, the related characteristic documents, and the Fujitsu Out-of-the-Box-Experience (OOBE) wizard.
User Skills	Knowledge of Microsoft Windows Server and Active Directory is presumed. Implementation requires basic knowledge and can be done by server administrators.
Documentation	User manuals are part of the Recovery DVD media or can be downloaded from http://manuals.ts.fujitsu.com
Conditions	The software products are supplied under conditions described in Fujitsu's current license agreement and the End User License Terms for Windows Server 2012 R2 OEM Standard.

Optional Software Assurance	Software Assurance (SA) is Microsoft’s maintenance program providing benefits that may include new version rights, additional use rights, spread payments, consulting services, training, support and more. If a customer is interested in SA, it must be acquired within 90 days of OEM/ROK license purchase and is only available via Microsoft’s Volume Licensing Programs (e.g. Select Plus and Open). SA and Microsoft Volume Licenses have to be sourced from authorized Microsoft Large Account Resellers (LARs). Fujitsu is authorized Microsoft LAR in a number of territories around the world. Fujitsu Technology Solutions GmbH is authorized Microsoft LAR for the region European Union (EU) and the European Free Trade countries (EFTA). For further assistance please contact PM-Team-LAR@ts.fujitsu.com .
Warranty	Standard Warranty

Specifications of additionally required prerequisites

Microsoft Active Directory, a feature of Windows Server 2012 R2 Datacenter or Standard, Windows Server 2012 Datacenter or Standard, Windows Server 2008 R2 SP1 Datacenter, Enterprise, or Standard, or Windows Server 2008 SP2 Datacenter, Enterprise, or Standard is a prerequisite. Microsoft Active Directory has to be in place at your network.

Additionally, DHCP (Dynamic Host Configuration Protocol) has to be enabled on your network. Your PRIMEFLEX Cluster-in-a-box is configured to automatically obtain an IP address from the DHCP server.

Ordering & Delivery	This PRIMEFLEX Cluster-in-a-box solution may be obtained from Fujitsu partners, the local Fujitsu sales representative, or regional office under a single order number BDL:1461V135-CLB32
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Licensing	
Right to use	The software is licensed per server system based on the number of processors and instances of server software. The software license is permanently assigned to the FUJITSU Server PRIMERGY with which you acquired the software. That server is the licensed server for that particular license. You may assign other software licenses to the same server, but you may not assign the same license to more than one server. Windows Server 2012 R2 Standard requires CALs, although not included. CALs are required for every user or device accessing a server. Licensing details: http://www.microsoft.com/en-us/server-cloud/windows-server/2012-editions.aspx

End User License Terms	Delivered with the product, either electronically or printed on paper. By using the software, you accept the license terms. If you do not accept them, do not use the software. Instead, please contact Fujitsu to determine our return policy for a refund or credit.
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Product Activation Notice to End Users – OEM	Certain Microsoft Products included with this computer may use technological measures for copy protection. Unless the software is activated, you have no right to use the software after the time permitted for activation. This is to prevent its unlicensed use. You are not permitted to bypass or circumvent activation. Product activation procedures and Microsoft’s privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the Software or reconfigurations of this computer, and may be completed by Internet or telephone (toll charges may apply). The software will remind you to activate it until you do. New PRIMERGY server systems ship pre-activated when sold with Windows Server 2012 R2 directly ex-factory (OEM).
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More information

Fujitsu platform solutions

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

Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to data center solutions, Managed Infrastructure and Infrastructure-as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing products

www.fujitsu.com/global/services/computing/

- PRIMERGY: Industrial standard server
- SPARC Enterprise: UNIX server
- PRIMEQUEST: Mission-critical x86 server
- ETERNUS: Storage system

Software

www.fujitsu.com/software/

More information

Learn more about PRIMEFLEX Cluster-in-a-box, please contact your Fujitsu business partner, Fujitsu sales representative, or visit our website.

<http://www.fujitsu.com/fts/products/computing/servers/primergy/solutions/>

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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