FUJITSU

Data Sheet
Fujitsu PRIMERGY CX420 S1 Out-of-the-box Dual Node Cluster Server

High availability for lower expertise and limited budgets

Nowadays your IT is becoming more and more important. It supports and drives your business, and allows you to respond faster to your customers and their demands. Maintaining the continuity of your IT services is fundamental to stay in business - and this is also true for small and medium-sized businesses.

However, High Availability IT solutions implemented by large organizations to provide continuous uptime of applications and data often exceed budgets and operational skills for smaller enterprises or multi-site organizations. Thus High Availability is deemed to be difficult to deploy, to require too much special knowledge and skills and to end up too expensive to buy.

With PRIMERGY CX420 S1, you can forget about those concerns. We understand the importance of keeping IT operations and data up and running, and help you to prevent IT downtime with an affordable, proven out-of-the-box server solution, enabling small and medium enterprises to overcome those main obstacles with continuously available IT operation.

PRIMERGY CX420 S1

Maintaining the continuity of your IT services is fundamental to stay in business- and this is also true for small and medium-sized businesses or multi-site organizations.

PRIMERGY CX420S1 is a Dual Node cluster server platform, based on Industry Standard Intel Xeon processors, providing continuous uptime for your applications and data. It leverages new High Availability features provided with Microsoft® Windows Server® 2012.

Everything you need is condensed into a 2U rack enclosure comprising two server nodes, up to 12

shared hot-plug storage drives and shared power and cooling, thus lowering capital expenses. Yet it enables flexible configuration of processing power, data capacity and networking options to adopt for various software solution scenarios. Integrated with the Windows Server Management tools, PRIMERGY CX420 S1 is managed as simple as a server, but operates continuously available as a cluster.

Green IT

Features & Benefits

Main Features	Benefits
Continuous availability with 2 clustered nodes in a 2U chassis ■ CX420 densely packs 2 server nodes , shared redundant power & cooling plus 12 hot-plug storage drives into a highly compact chassis of only 2 height units. New functionalities for continuously available services and protection of storage against a wide range of failure scenarios in Microsoft® Windows Server® 2012 operating systems perfectly combine with CX420 advanced hardware features like onboard node connectivity and shared access to local storage to provide an out-of-the-box foundation for clustered high availability configurations.	■ Entirely secured continuity of access to applications as well as data, all at an affordable price level, let customers setup their complete solution in an easy and quick manner. CX420 significantly lowers the entrance barriers for High Availability of data and applications- no need to invest into expensive SAN storage- designed to operate with only limited expert knowledge- supporting both virtualized or physical server deployments.
Shared power and cooling ■ CX420 features central cooling fans and 2 commonly shared highly efficient hot-plug power supplies.	■ Shared components pay back in lower costs to buy and lower costs to own. Lower energy budgets for a comparable performance as for standard rack servers.
Full compliance to Microsoft® Windows Server® 2012 certifications ■ CX420 and all its components fully comply to the Microsoft® Windows Server® 2012 certifications, making sure that cluster operations such as failover or recovery of applications and data are working reliably.	■ The flexible configuration of server nodes, data capacity and networking options enable various High Availibility solutions with Windows Server 2012 operating systems, which are covered by our certificates of conformance.
Easy serviceability ■ Hot-plug for server nodes, power supplies and disk drives enable enhanced availability and easy serviceability.	■ Each single server can be serviced without affecting the other nodes in the chassis.
Highly available shared storage ■ Up to twelve hot-plug storage drives for data integrate into the CX420 system, with choice of HDDs or SSDs, using dual ported SAS interfaces. Dynamic pooling of data through Microsoft® Windows Server® 2012 feature "Storage Spaces".	■ Flexibility of drive choice, adaptable to any demand, with full 3-year warranty. ■ Dual ported SAS interfaces enable direct accessibility of drives from both server nodes, thus fast failover from one node to the other is achieved without investing into costly storage network systems.

Technical details

Enclosure

System unit type	2 U chassis for 19-inch rack
Front bays	Storage drives: 12x 3.5-inch for 3.5-inch/2.5-inch HDDs
Rear bays	2 bays for half wide server trays CX272 S1 2 x for PSU
Fan configuration	4 non hot plug fans
Fan notes	System operation also in degraded mode
Power supply configuration	2x hot-plug power supply modules

Operating panel

Operating buttons	On/off switch ID button
Status LEDs	Identification (blue) Power (green)

Dimensions / Weight

Rack (W x D x H)	447 x 774.7 x 87.3 mm
Height Unit Rack	2 U
19" rackmount	Yes
Weight	up to 38 kg plus 2.5 kg for rack rails
Weight notes	Fully assembled Actual weight may vary depending on configuration
Rack integration kit	Included in Rack System

Electrical values

Max. input of single power supply	1200 W
Power supply configuration note	2x PSU in 1+1 redundancy configuration.
Power supply efficiency	94 % (80 PLUS platinum)
Rated voltage range	100 V - 240 V
Rated frequency range	50 Hz - 60 Hz
Rated current max.	12 A
Active power (max. configuration)	1200 W
Apparent power (max. configuration)	1445 VA
Heat emission	4320.0 kJ/h (4094.6 BTU/h)
Electrical value notes	Active power max. value depends on system configuration. For details see System Architect.

Environmental

Operating ambient temperature	10 - 35 ℃
Operating temperature note	DIN IEC 721-3-3 class 3K2
Operating relative humidity	10 - 85 % (non condensing)
Maximum altitude	3000 m
Operating environment	FTS 04230 – Guideline for Data Center (installation locations)
Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
Sound power (LWAd; 1B = 10dB)	6,9B (idle) / 7,4B (operating)

Compliance

Germany	GS
Europe	CE Class A * EN 55022 EN 60950 - 1 EN 50371 EN 61000-3-3

Compliance

USA/Canada	ULc/us FCC Class A
Global	CB RoHS WEEE
South Korea	KCC (KN22, KN24)
China	CCC (G 4943/ GB 9245 / GB 17625)
Australia/New Zealand	C-Tick
Taiwan	CNS 13438 class A
Compliance notes	There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request.
Compliance link	http://sp.ts.fujitsu.com/sites/certificates/

Cluster Server Nodes

Product Model name	Product Type	Processor quantity support	Number of nodes	Memory slots total	Supported capacity RAM (max.)	Number of Storage Drives (max.)
PRIMERGY CX272 S1	Dual Socket 2U Cluster Node http://docs.ts.fujitsu.com/dl.aspx?id=95de63e3-86d8-41aa-bb27-7561d41e7e79	2	2	16	256 GB	6x 2.5-inch or 6x 3.5-inch

Warranty

Standard Warranty	3 years
Service level	Onsite Service (depending on country)

Maintenance and Support Services - the perfect extension

Recommended Service	24x7, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.
Service Lifecycle	5 years
Service Weblink	http://www.fujitsu.com/fts/services

More information

Fujitsu OPTIMIZATION Services

Zusätzlich zu Fujitsu PRIMERGY CX420 S1, bietet FUJITSU eine Vielzahl an Plattformlösungen. Diese kombinieren leistungsstarke Produkte von FUJITSU mit optimalen Servicekonzepten, langjähriger Erfahrung und weltweiten Partnerschaften.

Dynamic Infrastructures

Mit dem Konzept Fujitsu Dynamic Infrastructures, bietet Fujitsu ein komplettes Portfolio aus IT-Produkten, -Lösungen und-Services. Dieses reicht von Endgeräten bis zu Lösungen im Rechenzentrum sowie Managed Infrastructures- und Infrastructure-as-a-Service-Angeboten. Sie entscheiden, wie Sie von diesen Technologien, Services und Know how profitieren wollen: Damit erreichen Sie eine völlig neue Dimension von IT Flexibilität und Effizienz.

Produkte

http://www.fujitsu.com/de/products/computing/servers/index.html

Software

http://www.fujitsu.com/de/products/software/

More information

Learn more about Fujitsu PRIMERGY CX420 S1, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
http://www.fujitsu.com/

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 contribute to the creation of a sustainable environment for future generations through IT. Please find further information at http://www.fujitsu.com/global/about/environment/

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