

# PRIMERGY CX420 S1 / CX272 S1

## *System configurator and order-information guide*

April 2016

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Change report

**PRIMERGY Server**

## Instructions

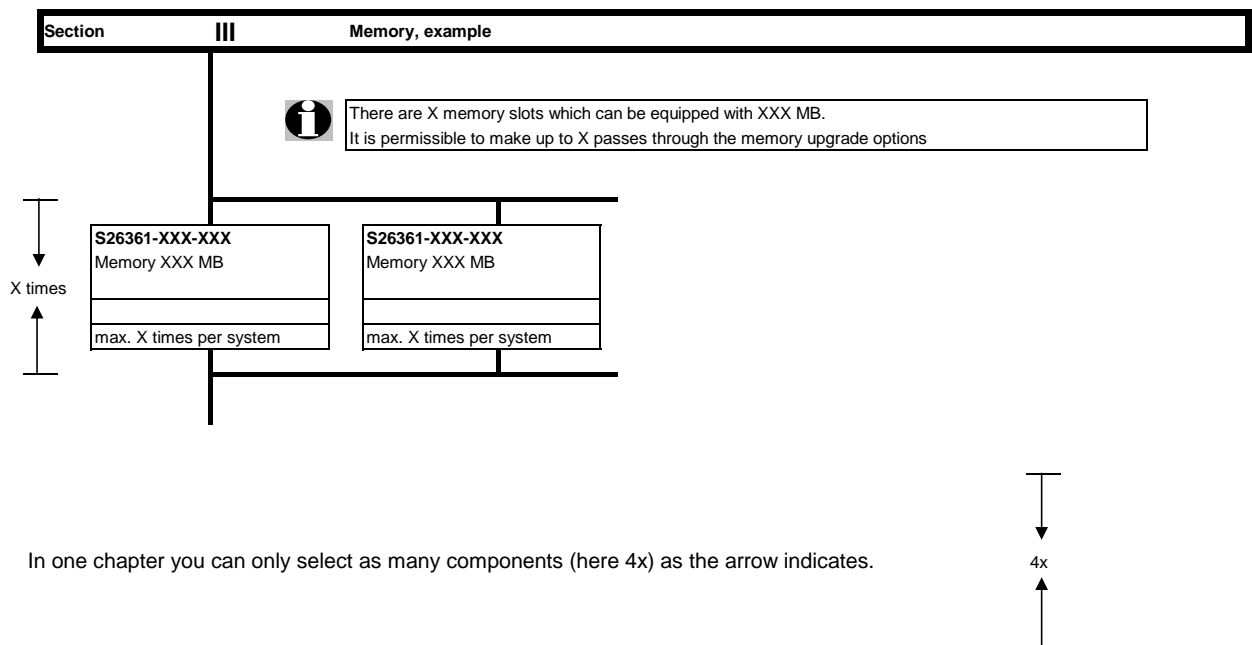
This document contains basic product and configuration information that will enable you to configure your system via PC-/System-Architect.

Only these tools will ensure a fast and proper configuration of your PRIMERGY server or your complete PRIMERGY Rack system.

You can configure your individual PRIMERGY server in order to adjust your specific requirements.

The System configurator is divided into several chapters that are identical to the current price list and PC-/SystemArchitect.

Please follow the lines. If there is a junction, you can choose which way or component you would like to take. Go through the configurator by following the lines from the top to the bottom.



Please note that there are information symbols which indicate necessary information.



For further information see:

[http://ts.fujitsu.com/products/standard\\_servers/inc](http://ts.fujitsu.com/products/standard_servers/inc) (internet)

[https://partners.ts.fujitsu.com/com/order-supply/configurators/primergy\\_config/current/Pages/default.aspx](https://partners.ts.fujitsu.com/com/order-supply/configurators/primergy_config/current/Pages/default.aspx) (extranet)

Configuration diagram PRIMERGY CX420 S1

System unit ( I )

with up to 12x 3.5" or 2.5" for shared HDDs plus up to 2x internal HDD per node for OS boot HDDs

CX400 S1 3,5" HDD cage standard (S26361-K1461-V135)



Key:

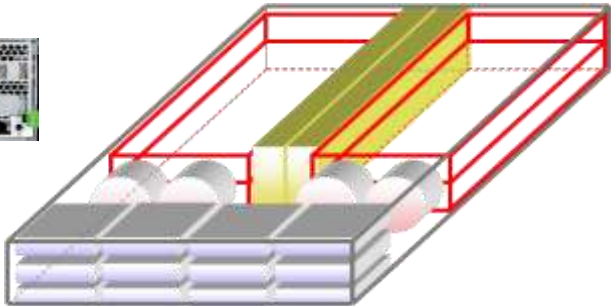
Included in basic unit

Option

Note: each CX420 S1 should install 2x CX272 S1 always  
Each nodes are hot pluggable and must be identical configuration



Tray 2	PSU 1	Tray 1
	PSU 2	



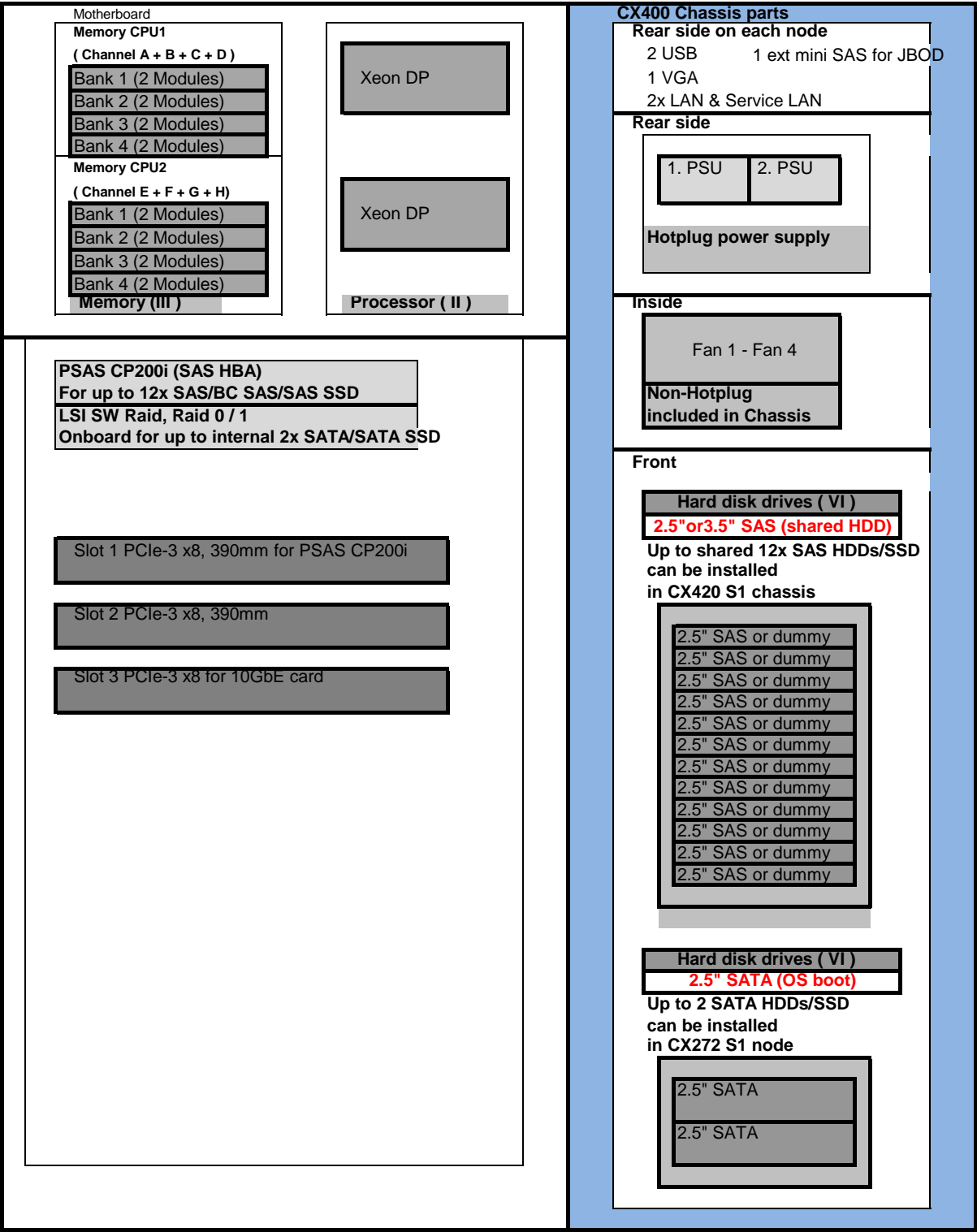
CX272 S1 half wide two U server node



Configuration diagram PRIMERGY CX272 S1

System unit ( I )

with up to 12x 3.5" or 2.5" HDDs for shared HDDs plus 2x internal HDDs for OS boot HDDs



Key:  
Included in basic unit      Option  
The population order for the CPU is: CPU1 first, then CPU2

**Section I Basic unit****System unit consisting of:**

\* 2U Housing with power supply modules, Rack Rails and HDD cages

\* Basic units with:

- 2 Hot-Plug Power Supply rated 1,200W
- 4 non-hot plug Fans (redundancy)

\* Dual port SAS Backplane for 12x 3.5" or 2.5" HD

\* Drives/Bays

- 12 bays 1" for hot plug 3.5"/2.5" HD
- SAS I/F HDD or SSD supported
- HDD configuration per Server node
- empty bays will be covered with dummy frames

\* Server nodes

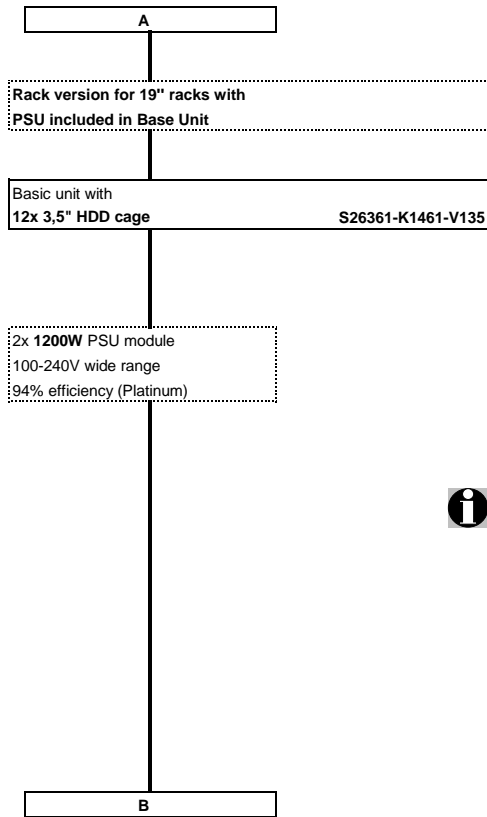
- each CX420 S1 can support 2x CX272 S1
- position of CX server nodes fixed

**Software:**

\* ServerView Suite Software

\* Documentation engl. (multilingual on CD)

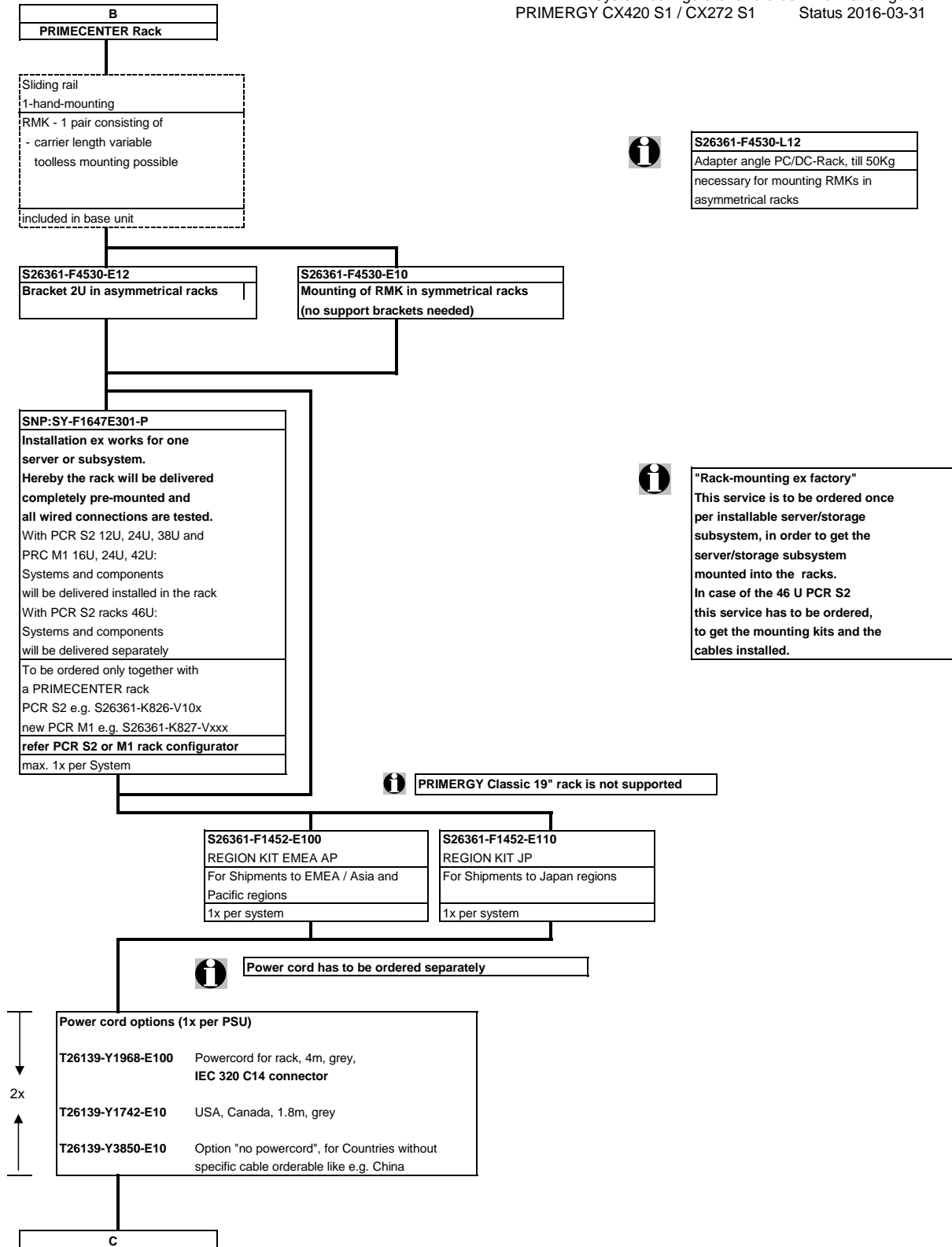
A



One 1200W power supply module hot plug no power cable included!!!	<b>No loose delivery</b>
200-240V environment: Full AC redundancy is available. 100V environment: System performance adjusted, when only one PSU is in operation	



Please order appropriate power cord additionally: Powercord for rack, 4m, grey, IEC320 C13->C14 connector Power Cord USA / Canada, 1.8m, grey	<b>T26139-Y1968-L10</b> <b>T26139-Y1742-L10</b>
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## Section II Basic unit

**CX272 S1 System unit consisting of:**

\* 2U half wide server node (tray & motherboard) for pluggin into CX420 chassis

## \* Basic units with:

- Server tray mechanics
- Motherboard
- 1x PCIe- x8 slots for PSAS CP200i
- 1x PCIe- x8 GEN3 low profile
- 1x PCIe- x8 GEN3 low profile (only for 10GbE D2755 and 10GbE-T card)

## Systemboard D3306 with:

- \* Up to two Xeon 4C, 6C & 8C CPU's (Socket-R)  
with 2 serial QPI links ( Quick Path Interconnect ) and four memory channels per CPU  
CPU has to be selected for an orderable basic unit,
- \* Chipset Intel® C600 Series

\* number of PCI slots:                    see above

## \* 16 memory slots for max. 512GB RAM DDR3 available

- Memory is divided into 8 DIMMs per CPU ( 4 channels with 2 slots per channel )

Possible max. configurations are:

16x 16GB RDIMM (dual rank modules) = 256GB

16x 4GB UDIMM (dual rank modules) = 64GB

First Memory ( one module ) has to be selected for an orderable basic unit per CPU

- Memory upgrade is possible by 8x memory units
- SDDC (Chipkill) is supported for memory modules,

\* Dual Port 10/100/1000 x4 PCI Express\* Gigabit Ethernet Intel LAN controller Powerville on-board

\* AST2300 (integrated Baseboard Management Controller) on-board server management controller with dedicated 10/100 Service LAN-port and integrated graphics controller.

The Service LAN-port can be switched alternatively on standard Gbit LAN port

\* Graphics Controller integrated in AST2300 (integrated Baseboard Management Controller):

1600x1200x16bpp 60Hz, 1280x1024x16bpp 60Hz, 1024x768x32bpp 75Hz, 800x600x32bpp 85Hz,  
640x480x32bpp 85Hz

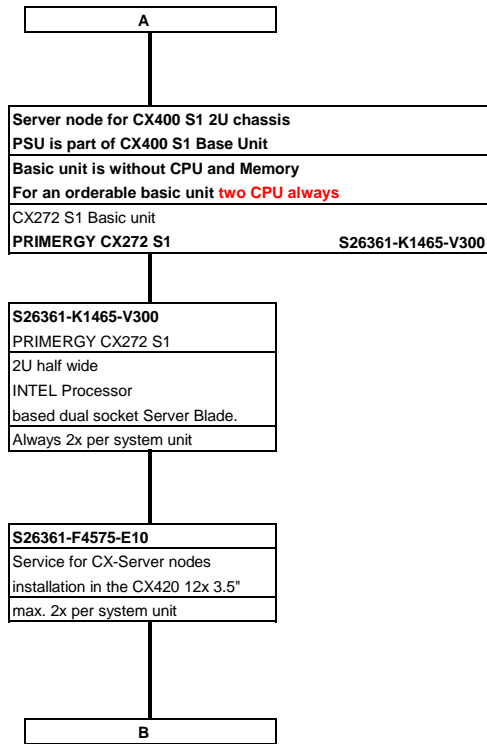
**Interfaces at the rear:**

- \* 1x RS-232-C (serial, 9 pins)
- \* 1x VGA (15 pins)
- \* 2x USB 2.0 ( UHCI ) with 480MBit/s, no USB wakeup
- \* 2x LAN RJ45, 1x Service-LAN RJ45
- \* 1x External mini SAS port for external JBOD

**Interfaces internal:**

- \* 1x USB 2.0 for UFM modul (embeded ESXi)
- \* 6x SATA interface via Patsburg -A for 6 SATA HD's Non-Raid or 4 SATA HD's Raid 0/1/10 (LSI SW Raid)





Non fully occupied configuration is not supported

CX420 S1 with 2x CX272 S1



Each CX272 S1 configuration to be identical

↓  
 2x      for CX272 S1  
 ↑

C

**Section III Processor**

There are 2 processor sockets available.  
The CPU socket is always equipped which can be selected via configurator

**Two processors with different clock frequencies are not possible**  
A multi-processor operating system is required for a dual-processor system.

<b>With this order number you will receive two CPUs!</b>	
<b>The CX2x0 is always delivered with two CPUs installed.</b>	
<b>Please choose the CPU type (applies to both CPUs)</b>	
<b>Basic 4C CPU's</b>	
- 1x 64-bit Intel Xeon (10MB Smart Cache) 1066 MHz DDR3 Bus; 6,40 GT/s QPI Bus and passive heat sink occupies socket for one CPU	
<b>2x Xeon E5-2603 4C/4T 1.80GHz 10MB 6.40GT/s 1066MHz 80W</b>	<b>S26361-F3731-E180</b>
<b>2x Xeon E5-2609 4C/4T 2.40GHz 10MB 6.40GT/s 1066MHz 80W</b>	<b>S26361-F3731-E240</b>
<b>Standard Turbo 6C CPU's</b>	
- 1x 64-bit Intel Xeon (15MB Smart Cache); Hyper-Threading (HT); 1333 MHz DDR3 Bus; 7,20 GT/s QPI Bus and passive heat sink occupies socket for one CPU	
<b>2x Xeon E5-2620 6C/12T 2.00GHz 15MB 7.20GT/s 1333MHz 95W</b>	<b>S26361-F3732-E200</b>
<b>2x Xeon E5-2630 6C/12T 2.30GHz 15MB 7.20GT/s 1333MHz 95W</b>	<b>S26361-F3732-E230</b>
<b>2x Xeon E5-2640 6C/12T 2.50GHz 15MB 7.20GT/s 1333MHz 95W</b>	<b>S26361-F3732-E250</b>
<b>Advanced Turbo+ 8C CPU's</b>	
- 1x 64-bit Intel Xeon (20MB Smart Cache); Hyper-Threading (HT); 1600 MHz DDR3 Bus; 8,00 GT/s QPI Bus and passive heat sink occupies socket for one CPU	
<b>2x Xeon E5-2650 8C/16T 2.00GHz 20MB 8.00GT/s 1600MHz 95W</b>	<b>S26361-F3733-E200</b>
<b>2x Xeon E5-2660 8C/16T 2.20GHz 20MB 8.00GT/s 1600MHz 95W</b>	<b>S26361-F3733-E220</b>
<b>2x Xeon E5-2665 8C/16T 2.40GHz 20MB 8.00GT/s 1600MHz 115W</b>	<b>S26361-F3733-E240</b>
<b>2x Xeon E5-2670 8C/16T 2.60GHz 20MB 8.00GT/s 1600MHz 115W</b>	<b>S26361-F3733-E260</b>
<b>2x Xeon E5-2680 8C/16T 2.70GHz 20MB 8.00GT/s 1600MHz 130W</b>	<b>S26361-F3733-E270</b>
<b>2x Xeon E5-2690 8C/16T 2.90GHz 20MB 8.00GT/s 1600MHz 135W</b>	<b>Not supported</b>
<b>Frequency Optimized Turbo 2C, 4C &amp; 6C CPU's</b>	
- 1x 64-bit Intel Xeon (5/10/15MB Smart Cache); Hyper-Threading (HT); 1600 MHz DDR3 Bus; 6,40/7,20 GT/s QPI Bus and passive heat sink occupies socket for one CPU	
<b>2x Xeon E5-2637 2C/4T 3.00GHz 5MB 6.40GT/s 1600MHz 80W</b>	<b>S26361-F3734-E300</b>
<b>2x Xeon E5-2643 4C/8T 3.3GHz 10MB 6.40GT/s 1600MHz 130W</b>	<b>Not supported</b>
<b>2x Xeon E5-2667 6C/12T 2.90GHz 15MB 7.20GT/s 1600MHz 130W</b>	<b>S26361-F3734-E290</b>
<b>Low Power 4C/6C/8C CPU's</b>	
- 1x 64-bit Intel Xeon (15/20MB Smart Cache); Hyper-Threading (HT); 1333/1600 MHz DDR3 Bus; 7,20/8,00 GT/s QPI Bus and passive heat sink occupies socket for one CPU	
<b>2x Xeon E5-2630L 6C/12T 2.00GHz 15MB 7.20GT/s 1333MHz 60W</b>	<b>S26361-F3735-E200</b>
<b>2x Xeon E5-2650L 8C/16T 1.80GHz 20MB 8.00GT/s 1600MHz 70W</b>	<b>S26361-F3735-E180</b>

**Note: Max. DDR3 Bus Speed depends on:**

- max. DDR3 Bus Speed from the CPU and
- max. DDR3 Memory Speed and
- max. memory modules on one memory channel

On special release only

D

Section	IV	Graphics
	E	<p>Graphics Controller integrated in BMC Aspeed 2300 (integrated Remote Management Controller): 1600x1200x16bpp 60Hz, 1280x1024x16bpp 60Hz, 1024x768x32bpp 75Hz, 800x600x32bpp 85Hz, 640x480x32bpp 85Hz (1280x1024x24bpp 60Hz only possible if local monitor or remote video redirection is off)</p>

F		PRIMERGY CX420 S1 / CX272 S1		Status 2016-03-3	
Section		V		Memory	
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Max. DDR3 memory speed depends on the memory configuration. (No of mem modules per channel) as well as on the CPU type.

The memory channel with the lowest speed defines the speed of all CPU channels in the system, also for the channels of the second CPU if configured.

For real memory speed (depending on memory type / population), please check the spreadsheet "Memory speed" below

## Memory Configuration PRIMERGY CX272 S1

Each CPU offers 8 **Slots** for DDR3 Memory Modules organised in **2 Banks and 4 Channels**.

Depending on the amount of memory configured you can decide between 4 basic modes of operation (see explanation below).

There are 3 different kinds of DDR3 Memory Modules available: UDIMM / RDIMM  
UDIMM / RDIMM offer different functionality. Mix of UDIMM / RDIMM is not allowed.

If 1.5V and 1.35V DIMMs are mixed, the DIMMs will run at 1.5V

Mode	Configuration	UDIMM	RDIMM	RDIMM	Application
		x8	x8	x4	
SDDC (chipkill) support	any	no	no	yes	detect multi-bit errors
Performance Mode	4 identical Modules / Bank	yes	yes	yes	offers maximum performance and capacity

\*) For the delivery ex works the system will be prepared with dedicated BIOS setting.

Capacity	Configuration	UDIMM	RDIMM	Notes
Min. Memory per CPU	4 Module / CPU	1x4GB	4x4GB	with one CPU
Max. Memory per CPU	8 Modules / CPU	8x4GB	8x16GB	with one CPU
Max. Memory per System	16 Modules / System	64GB	256GB	if second CPU is configured

### Memory-Speed:

**Max. DDR3 memory speed depends on the memory configuration on one memory channel and the speed of the CPU**

The memory channel with the lowest speed defines the speed of all CPU channels in the system

Mem. Speed provided by CPU	Real maximum memory-bus speed depending on CPU type, memory configuration (DPC) and voltage of installed memory module														
	UDIMM 1600MHz						RDIMM 1600MHz								
	1.5V [default]			1.35V			1.5V [default]			1.35V					
	1	2	3	1	2	3	1	2	3	1	2	3			
	DPC	DPC	DPC	DPC	DPC	DPC	DPC	DPC	DPC	DPC	DPC	DPC			
CPU with 1600MHz DDR3 Bus	1333	1333	-	1066	1066	-	1600	1600	-	1333	1333	-			
CPU with 1333MHz DDR3 Bus	1333	1333	-	1066	1066	-	1333	1333	-	1333	1333	-			
CPU with 1066MHz DDR3 Bus	1066	1066	-	1066	1066	-	1066	1066	-	1066	1066	-			

1R - Single Rank

2R - Dual Rank

4R - Quad Rank

1DPC = 1 DIMM per Channel

2DPC = 2 DIMM per Channel

3DPC = 3 DIMM per Channel

### Configuration hints:

- The memory sockets on the systemboard offer a color coding:

**Bank I** black sockets

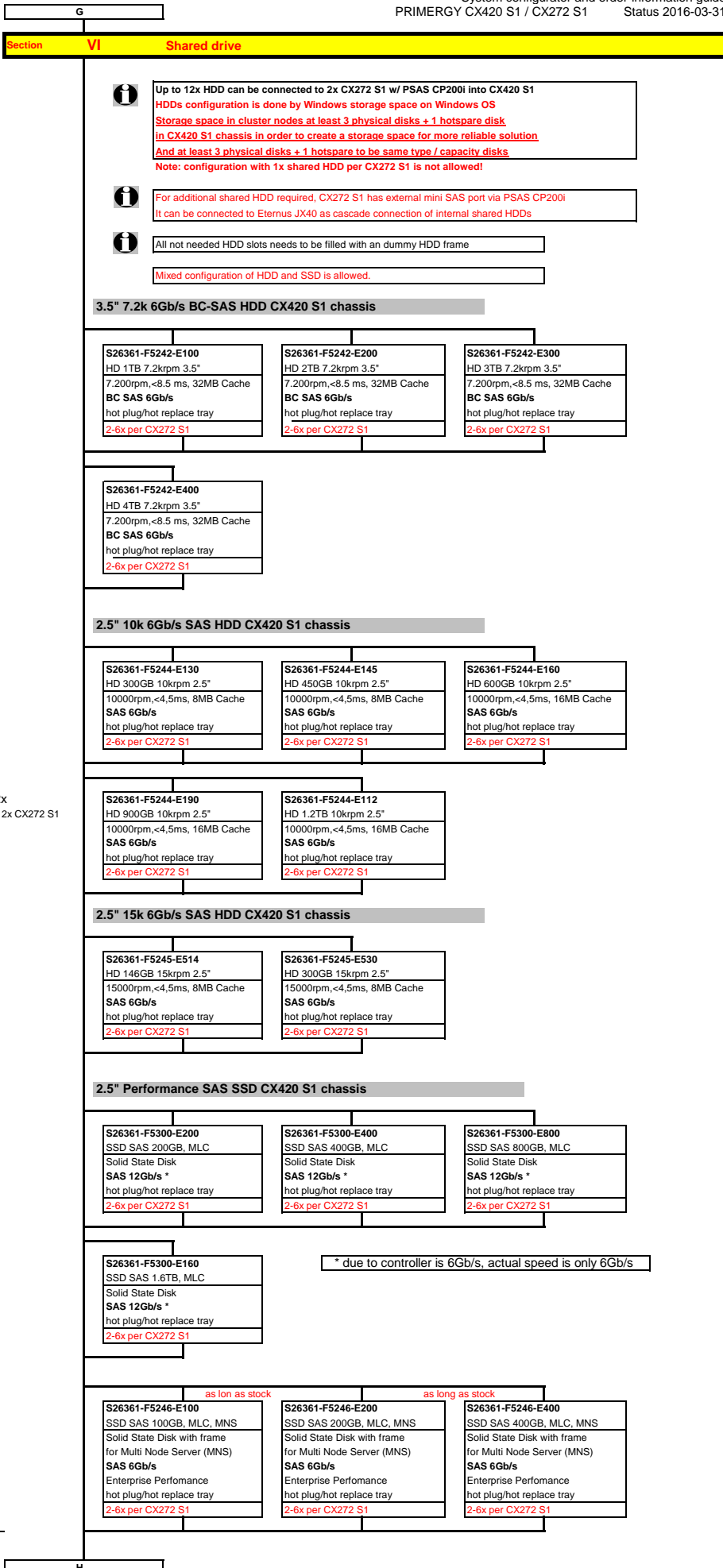
**Bank II** blue sockets

- A so called Bank consists of 1 memory module on every Channel available on one CPU (examples see below)

**Bank I on CPU 1/2** up to 4 memory modules connected to Channel A - H on the 1st/2nd CPU

**Bank II on CPU 1/2** up to 4 memory modules connected to Channel A - E on the 1st/2nd CPU  
(can not be populated by UDIMM or 4R RDIMM memory modules)

- See below and next page for a detailed descriptions of the memory configuration supported.



**Section VII OS boot Drive bay**



For MegaSR Raid 0/1 up to 2x SATA HDD can be connected to onboard chipset  
Non hotplug  
At least one HDD or SSD is always required to install OS

**S26361-F3012-E1**  
2x internal HDD option  
Non hotplug HDDs  
Only SATA HDD / SSD  
for OS boot drive  
max. 1x per CX272 system

**2.5" 7.2k 6G BC SATA HDD in CX272 S1 tray**

**S26361-F3710-E250**  
HD 250GB 7.2krpm 2.5"  
7200rpm, <9.5ms, 64MB Cache  
**BC SATA 6Gb/s**  
non hot plug  
max. 2x per base unit

**S26361-F3710-E500**  
HD 500GB 7.2krpm 2.5"  
7200rpm, <9.5ms, 64MB Cache  
**BC SATA 6Gb/s**  
non hot plug  
max. 2x per base unit

**S26361-F3710-E100**  
HD 1000GB 7.2krpm 2.5"  
7200rpm, <9.5ms, 64MB Cache  
**BC SATA 6Gb/s**  
non hot plug  
max. 2x per base unit

**2.5" Mainstream SATA SSD in CX272 S1 tray**

**S26361-F5306-E100**  
SSD SATA 100GB  
Solid State Disk with frame  
for Multi Node Server (MNS)  
**SATA 6Gb/s**  
Mainstream Performance  
Mainstream Endurance  
Non hotplug  
max. 2x per CX272 system

**S26361-F5306-E200**  
SSD SATA 200GB  
Solid State Disk with frame  
for Multi Node Server (MNS)  
**SATA 6Gb/s**  
Mainstream Performance  
Mainstream Endurance  
Non hotplug  
max. 2x per CX272 system

**S26361-F5306-E400**  
SSD SATA 400GB, MLC, MNS  
Solid State Disk with frame  
for Multi Node Server (MNS)  
**SATA 6Gb/s**  
Mainstream Performance  
Mainstream Endurance  
Non hotplug  
max. 2x per CX272 system

**2.5" Read-Intensive SATA SSD in CX272 S1 tray**

**S26361-F5529-E120**  
SSD SATA 120GB  
Solid State Disk with frame  
for Multi Node Server (MNS)  
**SATA 6Gb/s**  
Enterprise  
Read-Intensive Endurance  
Non hotplug  
max. 2x per CX272 system

**S26361-F5529-E240**  
SSD SATA 240GB  
Solid State Disk with frame  
for Multi Node Server (MNS)  
**SATA 6Gb/s**  
Enterprise  
Read-Intensive Endurance  
Non hotplug  
max. 2x per CX272 system

**S26361-F5529-E480**  
SSD SATA 480GB  
Solid State Disk with frame  
for Multi Node Server (MNS)  
**SATA 6Gb/s**  
Enterprise  
Read-Intensive Endurance  
Non hotplug  
max. 2x per CX272 system

SSD Mainstream Endurance  
10DWPD over 5y  
SSD Read-Intensive Endurance  
0.3DWPD over 5y

**S26361-F5529-E800**  
SSD SATA 800GB  
Solid State Disk with frame  
for Multi Node Server (MNS)  
**SATA 6Gb/s**  
Enterprise  
Read-Intensive Endurance  
Non hotplug  
max. 2x per CX272 system

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SectionVIIIOnboard SW Raid 0/1, additional Raid options

For shared 12x 3.5" or 2.5" HDDs

S26361-F3554-E118
PSAS CP200i
Based on chip LSISAS2008
SAS 6Gb/sec
int: 8 port
PCIe 2.0 x4,
max. 1 per CX272 S1



Always required!  
HDDs configuration is done by Windows storage space on Windows OS  
Storage space in cluster nodes at least 3 phisical disks (beside anhy hotspare disk)  
in CX420 S1 chassis in order to create a storage space



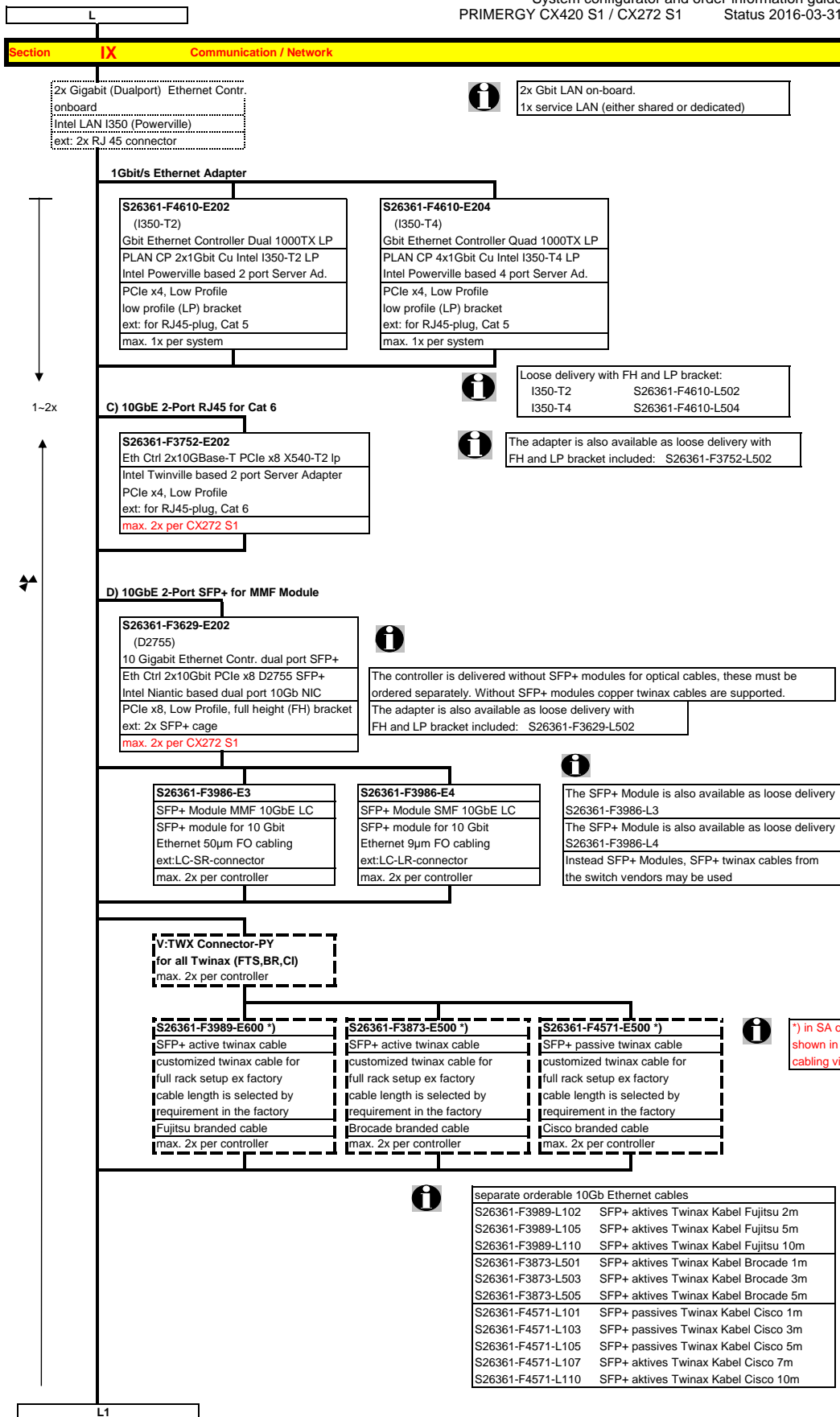
ServerView RAID is recommended to installed in CX272 S1 to detect missing HDD

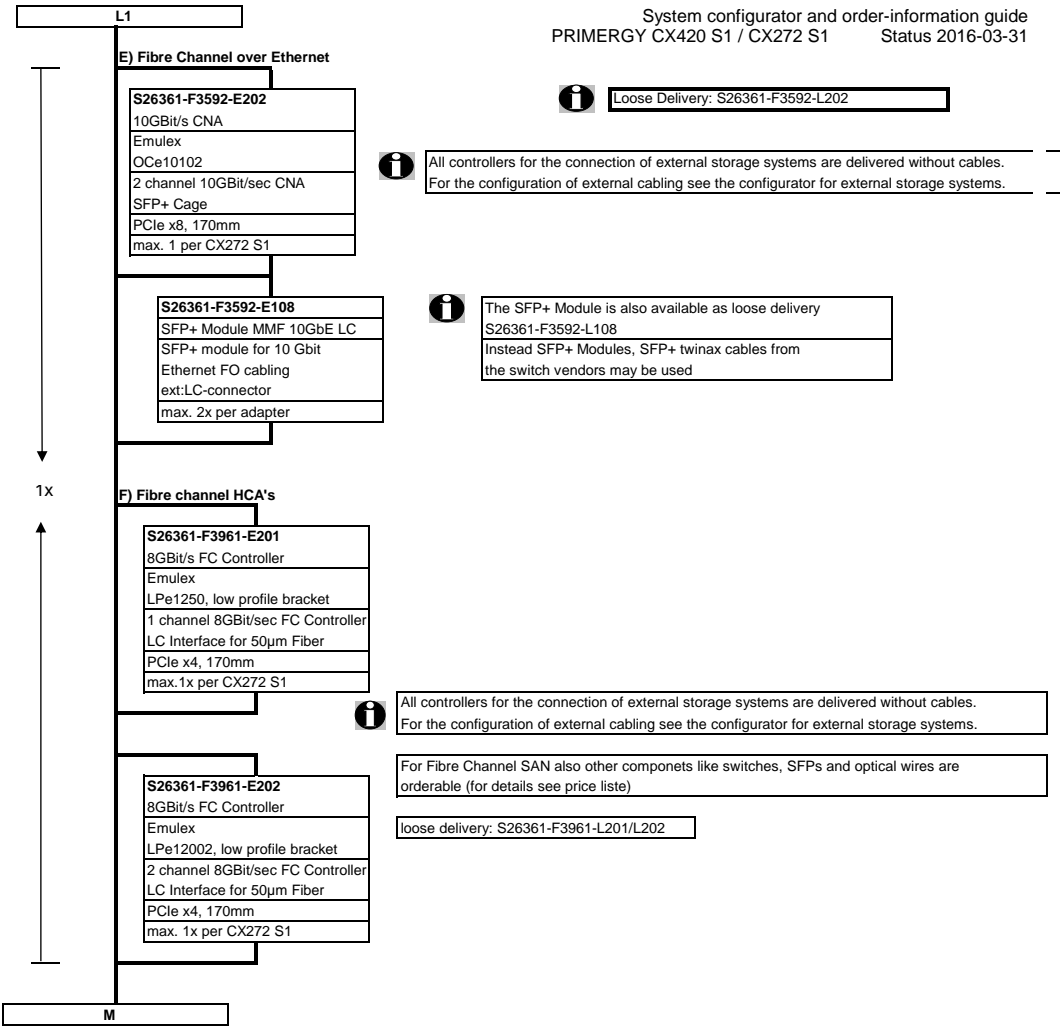
For OS boot drive 2x 2.5" non hot HDDs

Onboard SATA controller
no Cache, no BBU
Non RAID, RAID 0 & 1
1x integrated per CX272 S1

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Section    **X**      System Management Products (RemoteView)

AST2300 (integrated Remote Management Controller) onboard server management  
Controller with dedicated 10/100/ Service LAN-port and integrated graphics.  
Dedicated 10/100 Service LAN-port at the rear side.  
The Service LAN-port can be switched alternatively on standard Gbit LAN port



**S26361-F4575-E30**  
**iKVM advanced pack**  
integrated remote management controller  
activation key for  
graphical console redirection  
and remote media redirection  
max. 1x per CX272 S1



Note: can only be enabled ex factory by ordering this  
order code.  
There is no later upgrade possible, no -L number.

Section    **XI**      Miscellaneous



**Options and other peripherals**  
For other options, refer to SystemArchitect and Pricelist  
These options are supplied lose with the shipment  
For suitable peripherals for this product, please refer to SystemArcitect

End PRIMERGY CX272 S1

## Change Report

[illegible]