FUJITSU

PRIMERGY CX400 M1

System configurator and order-information guide

April 2017

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24x 2.5" Hot-plug HDD or SSD (K1530-V100)

12x 2.5" Hot-plug HDD or SSD (K1530-V200)

8x 2.5" Hot-plug HDD or SSD (K1530-V300)

PRIMERGY Server

Instructions

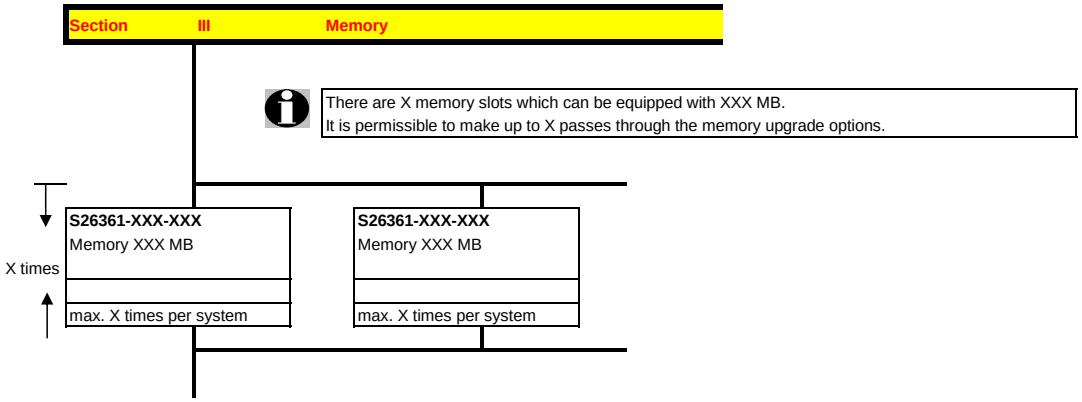
This document contains basic product and configuration information that will enable you to configure your system via PC-/SystemArchitect.

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

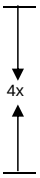
You can configure your individual PRIMERGY server in order to adjust your specific requirements.

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.



In one chapter you can only select as many components (here 4x) as the arrow indicates.



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

For further information see:

http://ts.fujitsu.com/products/standard_servers/index.html (internet)

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

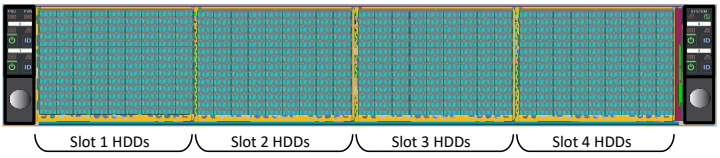
Prices and availability see price list and PC-/SystemArchitect.
Subject to change and errors excepted.

Configuration diagram PRIMERGY CX400 M1

System unit (I)

with up to 24x 2.5" HDD/SSD for CX2550 M1 and up to 12x 2.5" HDD/SSD for CX2570 M1
Below drawing shows slot numbering. For HDD installation order, please refer operating manual.

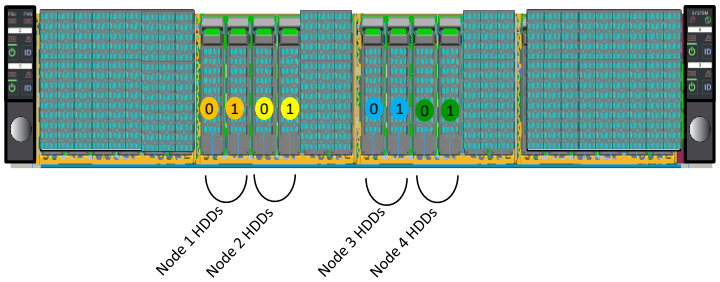
CX400 M1 for CX2550 (S26361-K1530-V100)



rear view

PSU2	Slot 4	Slot 2
PSU1	Slot 3	Slot 1

CX400 M1 for CX2550 variant 8x 2,5 HDD (S26361-K1530-V300)

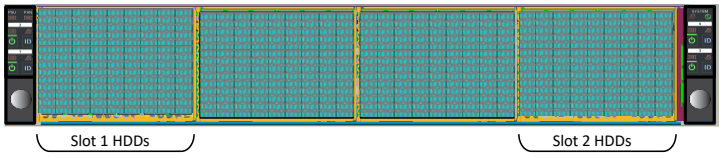


Rear view

PSU2	Slot 4	Slot 2
PSU1	Slot 3	Slot 1

CX400 M1 for CX2570 (S26361-K1530-V200)

Liquid Cooling is not possible



rear view

PSU2	Slot 3	Slot 1
PSU1		

HDD cage including BP/Linking board options (can be selected under node of CX25y0 M1)
Type A: 6x 2.5" SAS Backplane (SAS / SATA only) (S26361-F5519-E10)
Type B: 6x PCIe Backplane (2x for SAS / SATA / PCIe SFF SSD + 4x for SAS / SATA only) (S26361-F5519-E20)
Dummy HDD cage: This is for customer who does not use front HDDs/SSDs (e.g. SATADOM or UFM only used) (S26361-F5519-E50)

Type A

Type B

SAS / SATA / PCIe SFF SSD combi
SAS / SATA only

CX25y0 can select Type A or B or Dummy HDD cage

No loose delivery available for HDD cage options
Only special release

PSU (S26113-F617-E50/L50)
1x 1,600W PSU (Platinum efficiency)
100-240V wide range

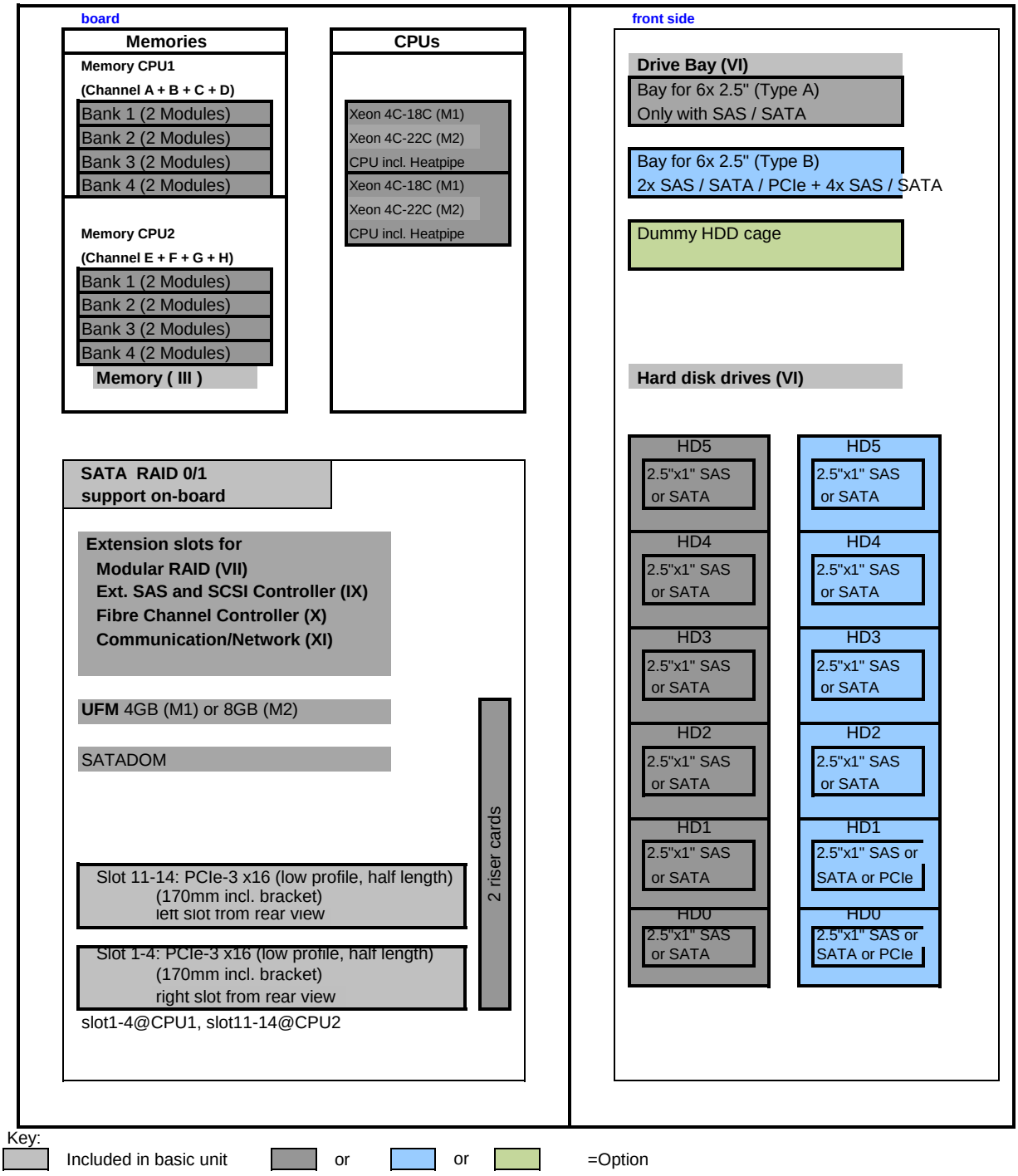
PSU (S26113-F620-E30/L30)
1x 2,400W PSU (Platinum efficiency)
100-240V wide range

In case of single PSU, throttling might be occurred.
It depends on Consumed power.

100V environment requires below HW config limitation
CPU: Only LV CPU (E5-2650L/2630L v3)
Please see sheet of "CX400 M1 Base Unit"
Mem: Only R-DIMM, not LR-DIMM

Configuration diagram
CX400 M1 for PRIMERGY CX2550 M2 24x 2.5" HDD (S26361-K1530-V100)

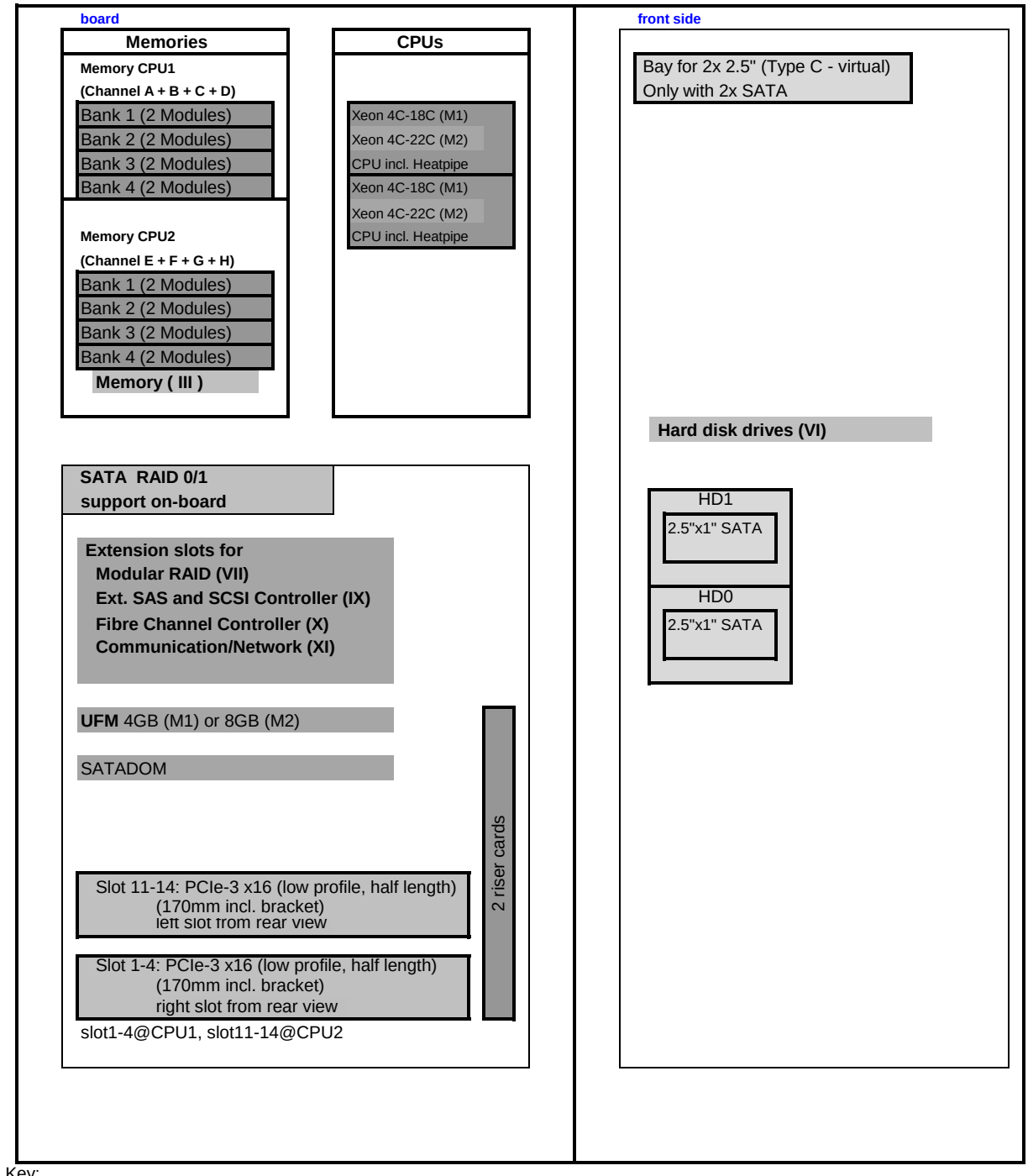
System unit (I)



Key:
Included in basic unit or or =Option

Configuration diagram
CX400 M1 for PRIMERGY CX2550 M2 8x 2.5" HDD (S26361-K1530-V300)

System unit (I)

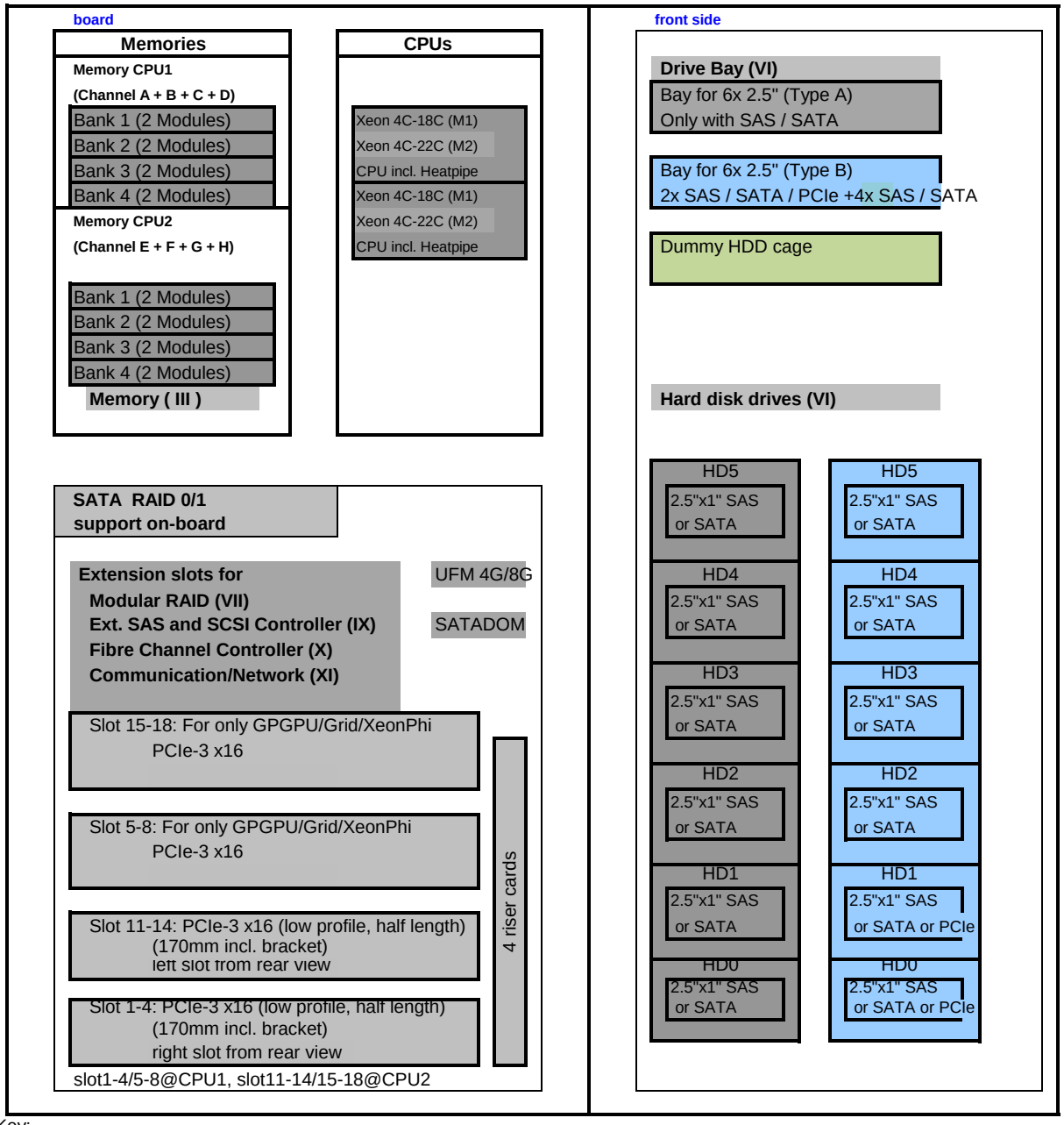


Key:
Included in basic unit or or =Option

Configuration diagram
CX400 M1 for PRIMERGY CX2570 M2 12x 2.5" HDD (S26361-K1530-V200)

System unit (I)

Liquid Cooling is not possible



Key:
Included in basic unit or or =Option

Start PRIMERGY CX400 M1

Section | **CX400 M1 Basic unit**

System unit consisting of:

*** 2U Housing without power supply modules/HDD cage/HDD BP/Linking board**
(PSU has to be configured min 2x for 1,600W PSU, min 1x for 2,400W PSU)

*** Fans**
- Redundant and non hot plug system 4x double-fans (n+1 redundancy)

*** RMK**
- Sliding rail

*** Drives / Bays (option for node)**
- 6x 2.5" HDD cage per node or 6x 2.5" HDD/PCIe SSD cage per node option or dummy HDD cage per node option
  *HDD cage option includes HDD BP and Linking board
- 2x 2.5" SATA HDD/SSD cage per node
- 2x dummy cage for CX2570 M1/M2 variant base unit only
- 4x dummy cage for CX25y0 M1/M2

*** Nodes (option)**
- up to 4x CX2550 M1 or M2
- up to 2x CX2570 M1 or M2

B

B

For AC 100V environment using CX2550M1/M2, restrictions based on the quantity of memory and HDD applied as follow :

CPU (TDP)	Memory (**RDIMM**) / Internal HDD quantity				
	Memory quantity	8	8	16	16
	HDD quantity	2	6	2	6
>= 135 W		-	NA	-	NA
120 W		**X**	-	-	-
105 W, 90 W, 85 W		**X**	**X**	**X**	-
65 W, 55 W		**X**	**X**	**X**	**X**

Remark : LRDIMM is not supported under AC 100V environment

Rack version for 19" racks with No PSU included in Base Unit	
Basic unit CX400 M1 for **CX2550 M2 variant 24x 2,5 HDD**	**S26361-K1530-V100**
Basic unit CX400 M1 for **CX2570 M2 variant**	**S26361-K1530-V200** Liquid cooling is not possible
Basic unit CX400 M1 for **CX2550 M2 variant 8x 2,5 HDD**	**S26361-K1530-V300**

S26113-F617-E50
1,600W PSU module platinum
redundancy
94% efficiency (platinum)
uses hot plug PSU slot
min. 2 / max. 2x per system

Full redundancy cannot be guaranteed for high duty. config.
In this case SysArch will generate a warning and PowerSafeguard will throttle CPUs and memory in case of a PSU failure.
So, power consumption will be limited to 1,600W.

S26113-F620-E30
2,400W PSU module platinum
redundancy
94% efficiency (platinum)
uses hot plug PSU slot
min. 1 / max. 2x per system

In case of 1x 2,400W Config 2x below accelerator card can't be possible on CX2570 M1/M2
Tesla K80
XeonPhi 3120P / 7120P

You must purchase "Dummy PSU", if you purchased only one PSU.

S26361-F5564-E10
Dummy PSU
min 1x / max 1x

2.400W (S26113-F620-E30) must use Power Cord 16A (S26361-F3151-E301)

	1600W PSU	2400W PSU
S26361-F3151-E351	200-240V only	Not supported
S26361-F3151-E301	100-120V / 200-240V	100-120V / 200-240V

for CX400 M1 within rack
please choose only 1 of this 2 cables

max. 2 x

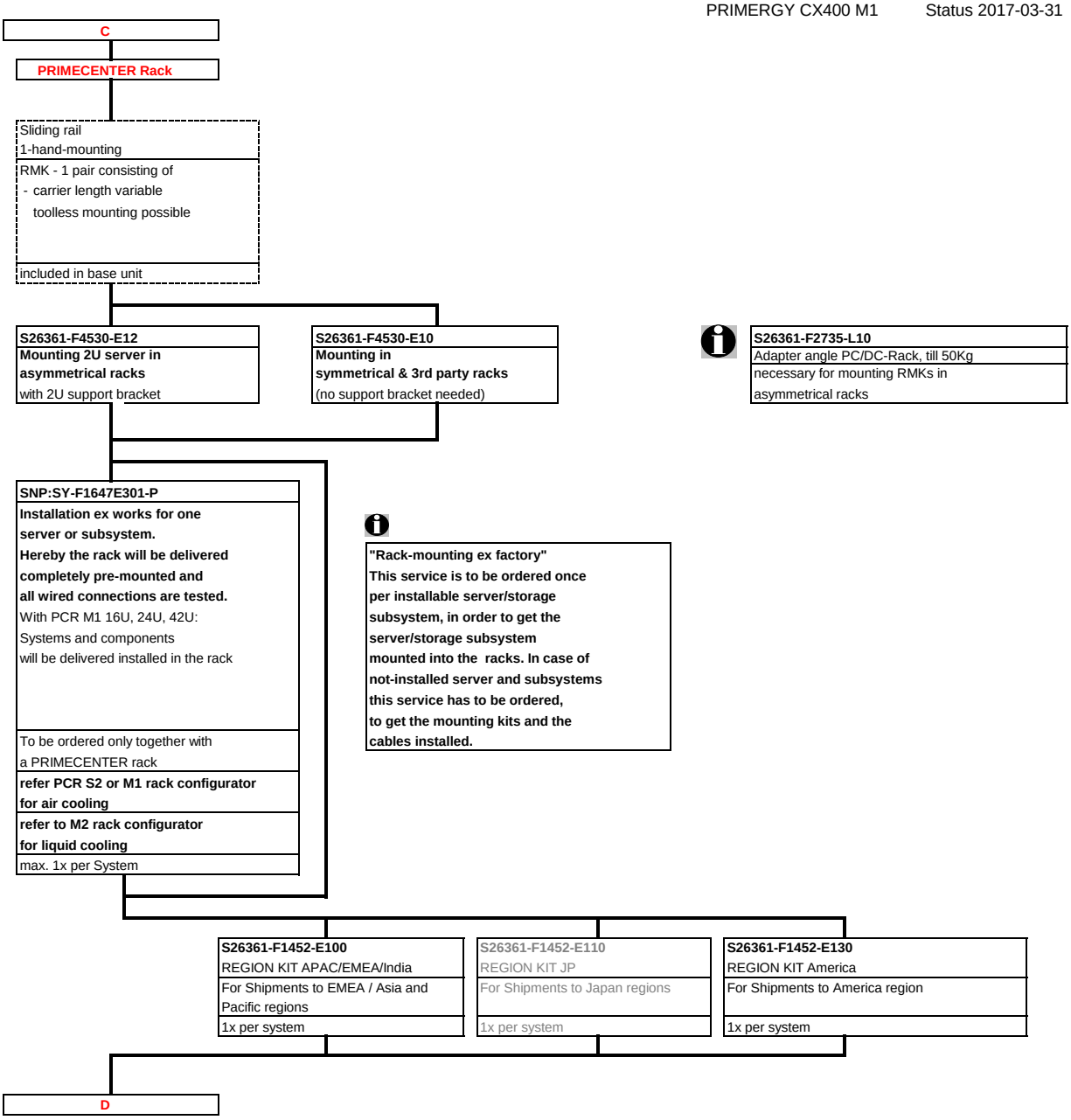
S26361-F3151-E351	**S26361-F3151-E301**	**S26361-F3151-E500**	**T26139-Y3850-E10**
Power Cord 10A IEC 320 C19 -> C14	Power Cord 16A IEC 320 C19 -> C20	Power Cord IEC320 C19 -> US NEMA L6-20p	No Power Cord
default within rack	for 100V-115V only*)	without rack only	without rack only
1x per PSU	1x per PSU	1x per PSU	1x per PSU

*) in System architect please change the default 16A connection to a 10A connection for all PSU

Please order appropriate power cord additionally:	
Power code IEC320 C19 -> C14 (200-240V only)	**S26361-F3151-L350**
Power code IEC320 C19 -> C20	**S26361-F3151-L300**
Power code IEC320 C19 -> US NEMA L6-20p	**S26361-F3151-L500**

S26361-F5558-E50
Liquid cooling tube set
for Liquid cooling
1x per CX400

C


C
PRIMECENTER Rack
Sliding rail
1-hand-mounting
RMK - 1 pair consisting of
- carrier length variable
toolless mounting possible
included in base unit
S26361-F4530-E12
Mounting 2U server in
asymmetrical racks
with 2U support bracket
S26361-F4530-E10
Mounting in
symmetrical & 3rd party racks
(no support bracket needed)
S26361-F2735-L10
Adapter angle PC/DC-Rack, till 50Kg
necessary for mounting RMKs in
asymmetrical racks
SNP:SY-F1647E301-P
Installation ex works for one
server or subsystem.
Hereby the rack will be delivered
completely pre-mounted and
all wired connections are tested.
With PCR M1 16U, 24U, 42U:
Systems and components
will be delivered installed in the rack
To be ordered only together with
a PRIMECENTER rack
refer PCR S2 or M1 rack configurator
for air cooling
refer to M2 rack configurator
for liquid cooling
max. 1x per System
"Rack-mounting ex factory"
This service is to be ordered once
per installable server/storage
subsystem, in order to get the
server/storage subsystem
mounted into the racks. In case of
not-installed server and subsystems
this service has to be ordered,
to get the mounting kits and the
cables installed.
S26361-F1452-E100
REGION KIT APAC/EMEA/India
For Shipments to EMEA / Asia and
Pacific regions
1x per system
S26361-F1452-E110
REGION KIT JP
For Shipments to Japan regions
1x per system
S26361-F1452-E130
REGION KIT America
For Shipments to America region
1x per system
D

Start PRIMERGY CX25y0 M2

Section II CX25y0 M2 Basic unit

CX2550 M2 System unit consisting of:
*** 1U Half wide server node**
- 1U Half wide tray
- Motherboard
- 2x PCIe Gen3 x16 riser card for low profile slot
  (Liquid Cooling can only support 1x PCIe Gen3)
- 1x UFM 8GB placement possible
- 1x SATADOM possible
- 1x correspoding cooling part (Air Cooling = Heatsinks / Liqiud Cooling = LC Kit) already included

CX2570 M2 System unit consisting of:
*** 2U Half wide server node**
- 2U Half wide tray
- Motherboard
- 2x PCIe Gen3 x16 riser card for low profile slot
- 2x PCIe Gen3 x16 riser card for GPGPU/Grid/XeonPhi
- 1x UFM 8GB placement possible
- 1x SATADOM possible

Systemboard D3343-B (same for CX2550 M2 and CX2570 M2) with:
*** Two Xeon E5-2600 v4 4C, 6C, 8C, 10C, 12C, 14C, 16C, 18C, 20C & 22C CPU`s (Socket-R3)**
with 2 serial QPI links (Quick Path Interconnect) and four memory channels per CPU
Two CPU has to be selected for an orderable basic unit,
*** Chipset Intel® C610 (codenamed Wellsburg)**

*** 4 PCIe slots**
-2x PCIe-3 x16 (Low Profile cards)
-2x PCIe-3 x16 (GPGPU/Grid/XeonPhi)

*** 16 memory slots for max. 2,048GB RAM DDR4 available**
- Memory is divided into 8 DIMMs per CPU (4 channels with 2 slots per channel)
Possible max. configurations are:
16x 128GB LRDIMM (8 rank modules) = 2,048GB
16x 32GB RDIMM (dual rank modules) = 512GB
First Memory (one module) has to be selected for an orderable basic unit per CPU
- Memory upgrade is possible module wise
- SDDC (Chipkill) is supported for memory modules,

*** Dual Port 10/100/1000 x4 PCI Express* Gigabit Ethernet Intel LAN controller Powerville on-board**
*** iRMC S4 (integrated Remote Management Controller) on-board server management controller with dedicated 10/100/1000 Service LAN-port and integrated graphics controller.**
The Service LAN-port can be switched alternatively on standard Gbit LAN port 1

*** Graphics Controller integrated in iRMC S4 (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)

A

A

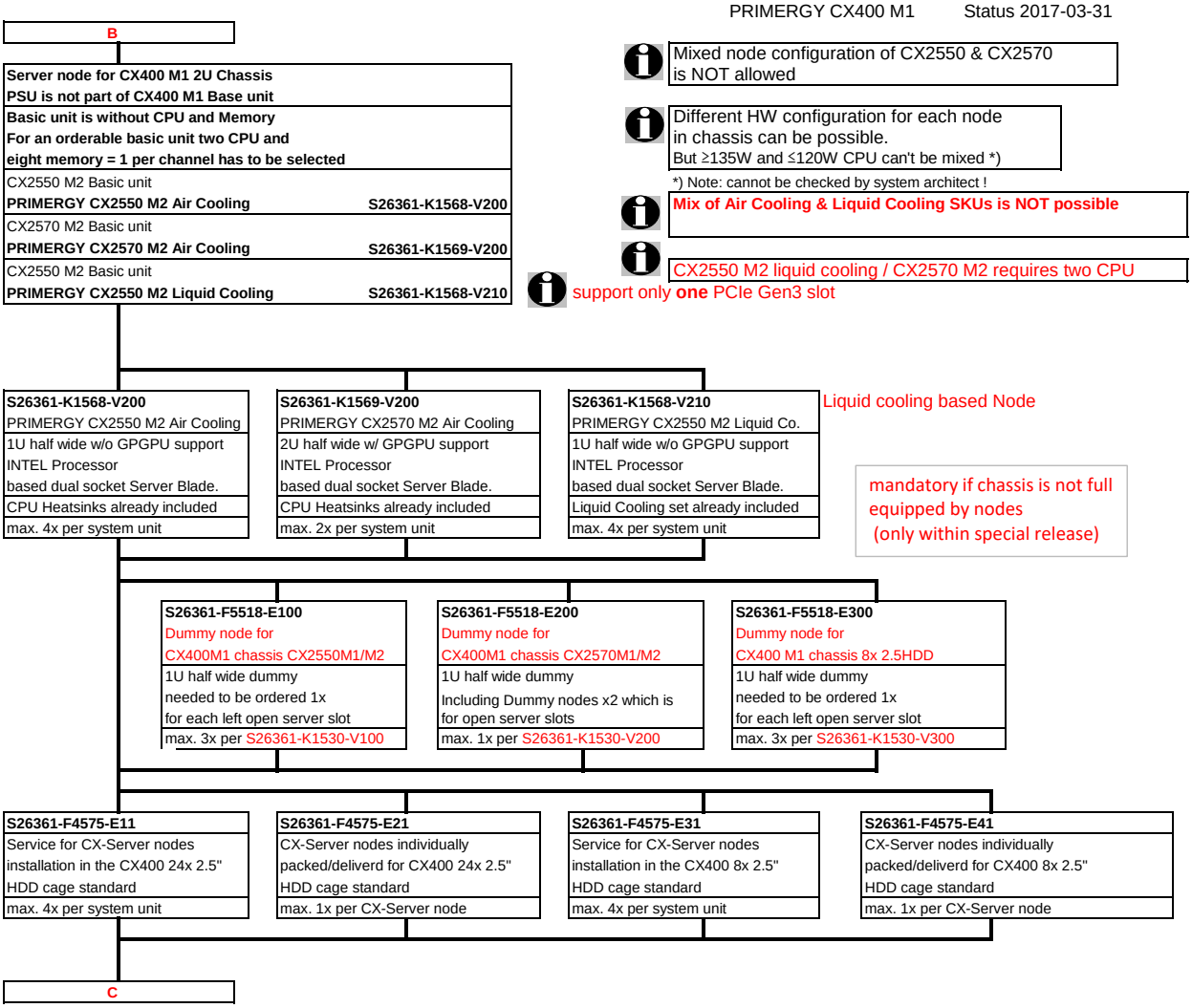
Interfaces at the rear:
* 1x VGA (15 pins)
* 2x USB 3.0 (UHCI), no USB wakeup
* 2x LAN RJ45, 1x Service-LAN RJ45

Interfaces internal:
* MiniSAS HD connector for 6 HDD & SSD
* 2x USB ports for internal USB redirection connected to BMC
* 1 port of USB 2.0 internally used for UFM

Software:
- ServerView Suite Software package incl. ServerStart, ServerBooks, Management Software and Updates
- Documentation engl. (multilingual on CD)

Note: Power Cord is not included in the basic unit and has to be configured separately

B


B
Server node for CX400 M1 2U Chassis
PSU is not part of CX400 M1 Base unit
Basic unit is without CPU and Memory
For an orderable basic unit two CPU and
eight memory = 1 per channel has to be selected
CX2550 M2 Basic unit
PRIMERGY CX2550 M2 Air Cooling S26361-K1568-V200
CX2570 M2 Basic unit
PRIMERGY CX2570 M2 Air Cooling S26361-K1569-V200
CX2550 M2 Basic unit
PRIMERGY CX2550 M2 Liquid Cooling S26361-K1568-V210
Mixed node configuration of CX2550 & CX2570 is NOT allowed
Different HW configuration for each node in chassis can be possible.
But ≥135W and ≤120W CPU can't be mixed *)
*) Note: cannot be checked by system architect !
Mix of Air Cooling & Liquid Cooling SKUs is NOT possible
CX2550 M2 liquid cooling / CX2570 M2 requires two CPU
support only one PCIe Gen3 slot
S26361-K1568-V200
PRIMERGY CX2550 M2 Air Cooling
1U half wide w/o GPGPU support
INTEL Processor
based dual socket Server Blade.
CPU Heatsinks already included
max. 4x per system unit
S26361-K1569-V200
PRIMERGY CX2570 M2 Air Cooling
2U half wide w/ GPGPU support
INTEL Processor
based dual socket Server Blade.
CPU Heatsinks already included
max. 2x per system unit
S26361-K1568-V210
PRIMERGY CX2550 M2 Liquid Co.
1U half wide w/o GPGPU support
INTEL Processor
based dual socket Server Blade.
Liquid Cooling set already included
max. 4x per system unit
Liquid cooling based Node
mandatory if chassis is not full equipped by nodes (only within special release)
S26361-F5518-E100
Dummy node for
CX400M1 chassis CX2550M1/M2
1U half wide dummy
needed to be ordered 1x
for each left open server slot
max. 3x per S26361-K1530-V100
S26361-F5518-E200
Dummy node for
CX400M1 chassis CX2570M1/M2
1U half wide dummy
Including Dummy nodes x2 which is
for open server slots
max. 1x per S26361-K1530-V200
S26361-F5518-E300
Dummy node for
CX400 M1 chassis 8x 2.5HDD
1U half wide dummy
needed to be ordered 1x
for each left open server slot
max. 3x per S26361-K1530-V300
S26361-F4575-E11
Service for CX-Server nodes
installation in the CX400 24x 2.5"
HDD cage standard
max. 4x per system unit
S26361-F4575-E21
CX-Server nodes individually
packed/deliverd for CX400 24x 2.5"
HDD cage standard
max. 1x per CX-Server node
S26361-F4575-E31
Service for CX-Server nodes
installation in the CX400 8x 2.5"
HDD cage standard
max. 4x per system unit
S26361-F4575-E41
CX-Server nodes individually
packed/deliverd for CX400 8x 2.5"
HDD cage standard
max. 1x per CX-Server node
C

C

Section II Processor

There are 2 processor sockets available.
The first socket must always be equipped with the **first CPU** which can be selected via configurator
Two processors with different clock frequencies are not possible
Liquid Cooling variant (S26361-K1568-V210) must select 2 processors. Single processor is not possible.
CX2570 M2 air cooling variant (S26361-K1569-V200) must select 2 processors.Single processor is not possible

Single CPU configuration is supported

Max. two CPU`s can be selected per basic unit
One of following CPU´s can be selected once (only as first CPU) for an orderable basic unit
Optional second CPU has to be the same type like the first CPU

Xeon E5-2600v4 (R) Basic - 1x 64-bit Intel Xeon (15MB Smart Cache) 1866 MHz DDR4 Bus; 6.4 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2603v4 6C/6T 1.70GHz 15MB 6.4GT/s 1866MHz 85W	**S26361-F3933-E103**
Xeon E5-2609v4 8C/8T 1.70GHz 20MB 6.4GT/s 1866MHz 85W	**S26361-F3933-E109**
Xeon E5-2600v4 (R) Standard - 1x 64-bit Intel Xeon (15/20MB Smart Cache); Hyper-Threading (HT); 2133 MHz DDR4 Bus; 8.0 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2620v4 8C/16T 2.10GHz 20MB 8.0GT/s 2133MHz 85W	**S26361-F3933-E120**
Xeon E5-2630v4 10C/20T 2.20GHz 25MB 8.0GT/s 2133MHz 85W	**S26361-F3933-E130**
Xeon E5-2640v4 10C/20T 2.40GHz 25MB 8.0GT/s 2133MHz 90W	**S26361-F3933-E140**
Xeon E5-2600v4 (R) Advanced - 1x 64-bit Intel Xeon (25/30MB Smart Cache); Hyper-Threading (HT); 2400 MHz DDR4 Bus; 9.6 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2650v4 12C/24T 2.20GHz 30MB 9.6GT/s 2400MHz 105W	**S26361-F3933-E150**
Xeon E5-2660v4 14C/28T 2.00GHz 35MB 9.6GT/s 2400MHz 105W	**S26361-F3933-E160**
Xeon E5-2680v4 14C/28T 2.40GHz 35MB 9.6GT/s 2400MHz 120W	**S26361-F3933-E180**
Xeon E5-2690v4 14C/28T 2.60GHz 35MB 9.6GT/s 2400MHz 135W	**S26361-F3933-E190**
Xeon E5-2600v4 (R) Frequency Optimized - 1x 64-bit Intel Xeon (10-30MB Smart Cache); Hyper-Threading (HT); 2400 MHz DDR4 Bus; 8.0 & 9.6 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2623v4 4C/8T 2.60GHz 10MB 8.0GT/s 2133MHz 85W	**S26361-F3933-E123**
Xeon E5-2637v4 4C/8T 3.50GHz 15MB 9.6GT/s 2400MHz 135W	**S26361-F3933-E137**
Xeon E5-2643v4 6C/12T 3.40GHz 20MB 9.6GT/s 2400MHz 135W	**S26361-F3933-E143**
Xeon E5-2667v4 8C/16T 3.20GHz 25MB 9.6GT/s 2400MHz 135W	**S26361-F3933-E167**
Xeon E5-2687Wv4 12C/24T 3.00GHz 30MB 9.6GT/s 2400MHz 160W	**S26361-F3933-E187** For air cooled solution on Special Release only
Xeon E5-2687Wv4 12C/24T 3.00GHz 30MB 9.6GT/s 2400MHz 160W	**S26361-F3933-E188** For liquid cooled solution only
Xeon E5-2689v4 10C/20T 3.10GHz 25MB 9.6GT/s 2400MHz 165W	**S26361-F3933-E189** For liquid cooled solution on Special Release only
Xeon E5-2600v4 (R) High Core Count - 1x 64-bit Intel Xeon (35-40MB Smart Cache); Hyper-Threading (HT); 2400 MHz DDR4 Bus; 9.6 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2683v4 16C/32T 2.10GHz 40MB 9.6GT/s 2400MHz 120W	**S26361-F3933-E183**
Xeon E5-2695v4 18C/36T 2.10GHz 45MB 9.6GT/s 2400MHz 120W	**S26361-F3933-E195**
Xeon E5-2697v4 18C/36T 2.30GHz 45MB 9.6GT/s 2400MHz 145W	**S26361-F3933-E197**
Xeon E5-2697Av4 16C/32T 2.60GHz 40MB 9.6GT/s 2400MHz 145W	**S26361-F3933-E191**
Xeon E5-2698v4 20C/40T 2.20GHz 50MB 9.6GT/s 2400MHz 135W	**S26361-F3933-E198**
Xeon E5-2699v4 22C/44T 2.20GHz 55MB 9.6GT/s 2400MHz 145W	**S26361-F3933-E199**
Xeon E5-2699Av4 22C/44T 2.40GHz 55MB 9.6GT/s 2400MHz 145W	**S26361-F3933-E192** planned to release on Nov, 2016
Xeon E5-2600v4 (R) Low Power - 1x 64-bit Intel Xeon (20/30MB Smart Cache); Hyper-Threading (HT); 2133/2400 MHz DDR4 Bus; 8.0/9.6 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2630Lv4 10C/20T 1.80GHz 25MB 8.0GT/s 2133MHz 55W	**S26361-F3933-E131**
Xeon E5-2650Lv4 14C/28T 1.70GHz 35MB 9.6GT/s 2400MHz 65W	**S26361-F3933-E151**

Max. DDR4 Bus Speed depends on:
- max. DDR4 Bus Speed from the CPU and
- max. DDR4 Memory Speed and
- max. memory modules on one memory channel

Advanced Thermal Design
refer to ATD with S26361-F3776-E240

CPU type	Ambient temp	front HDD	PCIe slots Air cooled	PCIe slots Liquid cooled
w/o ATD option				
<= 145W	35℃	6	2	1
160W	30℃	0	2	1
w/ ATD option				
135/145/160W (Liquid cooling only)	40℃	6	-	1
<=120W	40℃	6	2	1

Restrictions if special release request is required:
- Up to 30 deg-C ambient temperature is allowed
- Integration of HDD/SSD is not possible (only SATADOM)

For Air cooling
S26361-F3849-E100
Cooling Kit 2nd CPU

For Liquid cooling

D1 D2

D1

D2

One of following CPU´s has to be selected as second CPU	
Optional second CPU has to be the same type like the first CPU	
Xeon E5-2600v4 (R) Basic - 1x 64-bit Intel Xeon (15MB Smart Cache) 1866 MHz DDR4 Bus; 6.4 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2603v4 6C/6T 1.70GHz 15MB 6.4GT/s 1866MHz 85W	**S26361-F3933-E103**
Xeon E5-2609v4 8C/8T 1.70GHz 20MB 6.4GT/s 1866MHz 85W	**S26361-F3933-E109**
Xeon E5-2600v4 (R) Standard - 1x 64-bit Intel Xeon (15/20MB Smart Cache); Hyper-Threading (HT); 2133 MHz DDR4 Bus; 8.0 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2620v4 8C/16T 2.10GHz 20MB 8.0GT/s 2133MHz 85W	**S26361-F3933-E120**
Xeon E5-2630v4 10C/20T 2.20GHz 25MB 8.0GT/s 2133MHz 85W	**S26361-F3933-E130**
Xeon E5-2640v4 10C/20T 2.40GHz 25MB 8.0GT/s 2133MHz 90W	**S26361-F3933-E140**
Xeon E5-2600v4 (R) Advanced - 1x 64-bit Intel Xeon (25/30MB Smart Cache); Hyper-Threading (HT); 2400 MHz DDR4 Bus; 9.6 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2650v4 12C/24T 2.20GHz 30MB 9.6GT/s 2400MHz 105W	**S26361-F3933-E150**
Xeon E5-2660v4 14C/28T 2.00GHz 35MB 9.6GT/s 2400MHz 105W	**S26361-F3933-E160**
Xeon E5-2680v4 14C/28T 2.40GHz 35MB 9.6GT/s 2400MHz 120W	**S26361-F3933-E180**
Xeon E5-2690v4 14C/28T 2.60GHz 35MB 9.6GT/s 2400MHz 135W	**S26361-F3933-E190**
Xeon E5-2600v4 (R) Frequency Optimized - 1x 64-bit Intel Xeon (10-30MB Smart Cache); Hyper-Threading (HT); 2400 MHz DDR4 Bus; 8.0 & 9.6 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2623v4 4C/8T 2.60GHz 10MB 8.0GT/s 2133MHz 85W	**S26361-F3933-E123**
Xeon E5-2637v4 4C/8T 3.50GHz 15MB 9.6GT/s 2400MHz 135W	**S26361-F3933-E137**
Xeon E5-2643v4 6C/12T 3.40GHz 20MB 9.6GT/s 2400MHz 135W	**S26361-F3933-E143**
Xeon E5-2667v4 8C/16T 3.20GHz 25MB 9.6GT/s 2400MHz 135W	**S26361-F3933-E167**
Xeon E5-2687Wv4 12C/24T 3.00GHz 30MB 9.6GT/s 2400MHz 160W	**S26361-F3933-E187**
Xeon E5-2689v4 10C/20T 3.10GHz 25MB 9.6GT/s 2400MHz 165W	**S26361-F3933-E189**
Xeon E5-2600v4 (R) High Core Count - 1x 64-bit Intel Xeon (35-40MB Smart Cache); Hyper-Threading (HT); 2400 MHz DDR4 Bus; 9.6 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2683v4 16C/32T 2.10GHz 40MB 9.6GT/s 2400MHz 120W	**S26361-F3933-E183**
Xeon E5-2695v4 18C/36T 2.10GHz 45MB 9.6GT/s 2400MHz 120W	**S26361-F3933-E195**
Xeon E5-2697v4 18C/36T 2.30GHz 45MB 9.6GT/s 2400MHz 145W	**S26361-F3933-E197**
Xeon E5-2697Av4 16C/32T 2.60GHz 40MB 9.6GT/s 2400MHz 145W	**S26361-F3933-E191**
Xeon E5-2698v4 20C/40T 2.20GHz 50MB 9.6GT/s 2400MHz 135W	**S26361-F3933-E198**
Xeon E5-2699v4 22C/44T 2.20GHz 55MB 9.6GT/s 2400MHz 145W	**S26361-F3933-E199**
Xeon E5-2699Av4 22C/44T 2.40GHz 55MB 9.6GT/s 2400MHz 145W	**S26361-F3933-E192**
Xeon E5-2600v4 (R) Low Power - 1x 64-bit Intel Xeon (20/30MB Smart Cache); Hyper-Threading (HT); 2133/2400 MHz DDR4 Bus; 8.0/9.6 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2630Lv4 10C/20T 1.80GHz 25MB 8.0GT/s 2133MHz 55W	**S26361-F3933-E131**
Xeon E5-2650Lv4 14C/28T 1.70GHz 35MB 9.6GT/s 2400MHz 65W	**S26361-F3933-E151**

Separate orderable CPU upgrade kits	
S26361-F3933-L703	**Xeon E5-2603v4 6C/6T 1.70GHz 15MB 6.4GT/s 1866MHz 85W**
S26361-F3933-L709	**Xeon E5-2609v4 8C/8T 1.70GHz 20MB 6.4GT/s 1866MHz 85W**
S26361-F3933-L720	**Xeon E5-2620v4 8C/16T 2.10GHz 20MB 8.0GT/s 2133MHz 85W**
S26361-F3933-L730	**Xeon E5-2630v4 10C/20T 2.20GHz 25MB 8.0GT/s 2133MHz 85W**
S26361-F3933-L740	**Xeon E5-2640v4 10C/20T 2.40GHz 25MB 8.0GT/s 2133MHz 90W**
S26361-F3933-L750	**Xeon E5-2650v4 12C/24T 2.20GHz 30MB 9.6GT/s 2400MHz 105W**
S26361-F3933-L723	**Xeon E5-2623v4 4C/8T 2.60GHz 10MB 8.0GT/s 2133MHz 105W**

E

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Section IV Memory

- **There are 8 memory slots per CPU for max.**
  - 512GB LRDIMM (8x 64GB 4R)
  - 512GB RDIMM (8x 64GB 3DS)
  - CX25y0 M2: => max. 1.024GB for two CPU`s (512GB per CPU), using RDIMM or LRDIMM
- The memory area is divided into 4 channels per CPU with 2 slots per channel
- Slot 1 of each channel belongs to memory bank 1, the slot 2 belongs to memory bank 2,

Registered and Load Reduced DIMMs can be selected
No mix of registered and load reduced modules is allowed.
Memory can be operated at 1.2V.
Depending on the CPU following memory speeds will be reached:
- 1DPC & 2DPC - 2400MHz max

SDDC (Chipkill) is supported for registered / load redueced x4 organized memory modules only

1.) In the "Independent Channel Mode" is following configuration possible
Channels can be populated in any order in Independent Channel Mode. All four channels may be populated in any order and have no matching requirements. All channels must run at the same interface frequency but individual channels may run at different DIMM timings (RAS latency, CAS latency, and so forth)
No mix of registered and load reduced modules is allowed.

2.) "Performance Mode" configuration
- In this configuration, the memory module population ex factory is spread across all channels. The BIOS is set to the max. performance for memory.

Minimum configuration is four identical modules per CPU

Liquid Cooling supports Performance mode only

1x per CPU

S26361-F3694-E10 Independent Mode
Independent Channel Mode allows all channels to be populated in any order. No specific Memory RAS features are defined
Requires min 1 memory Module per CPU

S26361-F3694-E2 Performance Mode Installation
BIOS Setup factory preinstalled for max. Performance, Four identical memory modules will be equipped in one memory bank to achieve highest memory performance. All four modules are active and full capacity can be used.
Multiple of 4 identical modules to be configured per CPU

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CX25y0 M2

Minimum one memory module or order code per CPU = first memory

Note 1)

Max. DDR4 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
For real memory speed (depending on memory type / population),
please check the table "Memory speed" below

Note 2)

Mix of memory modules is only possible within the same group

up to 8x per CPU

Registered Memory (RDIMM) with SDDC (chipkill) support		
- one DDR4 registered ECC memory Module, 1.2V		
Choose up to 8 order codes per CPU		
8GB (1x8GB) 1Rx4 DDR4-2400 R ECC	S26361-F3934-E611	
16GB (1x16GB) 2Rx4 DDR4-2400 R ECC	S26361-F3934-E612	
32GB (1x32GB) 2Rx4 DDR4-2400 R ECC	S26361-F3934-E615	
Registered Memory (RDIMM 3DS) with SDDC (chipkill) support		
- one DDR4 registered 3DS ECC memory Module, 1.2V		
Choose up to 8 order codes per CPU		
64GB (1x64GB) 4Rx4 DDR4-2400 3DS ECC	S26361-F3934-E617	available from Q4/2017
Registered Memory (RDIMM) no SDDC (chipkill) support		
- one DDR4 registered ECC memory Module, 1.2V		
Choose up to 8 order codes per CPU		
8GB (1x8GB) 2Rx8 DDR4-2400 R ECC	S26361-F3934-E614	On Special Release Request only
16GB (1x16GB) 2Rx8 DDR4-2400 R ECC	S26361-F3934-E613	
Load Reduced Memory (LRDIMM) with SDDC (chipkill) support		
- one DDR4 load reduced ECC memory Module, 1.2V		
Choose up to 8 order codes per CPU		
64GB (1x64GB) 4Rx4 DDR4-2400 LR ECC	S26361-F3935-E616	

Loose delivery available for Air Cooling,
NOT available for Liquid Cooling

For Liquid Cooling, S26361-F3935-E616 *
must be handled as Special Release.

F

Memory Configuration PRIMERGY CX25y0 M2

Each CPU offers 8 **Slots** for DDR4 Memory Modules organised in **2 Banks and 4 Channels.**
Depending on the amount of memory configured you can decide between 2 basic modes of operation (see explanation below).

There are 2 different kinds of DDR4 Memory Modules available: RDIMM and LRDIMM
RDIMM / LRDIMM offer different functionality. Mix of RDIMM / LRDIMM is not alloved.

Mode	Configuration	RDIMM	RDIMM LRDIMM	Application
		x8	x4	
SDDC (chipkill) support	any	no	yes	detect multi-bit errors
Independant Channel Mode	1, 2 or 3 Modules per Bank	yes	yes	offers max. flexibility, upgradeability, capacity
Performance Mode	4 identical Modules / Bank	yes	yes	offers maximum performance and capacity

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

				CX25y0 M2		
Capacity	Configuration			RDIMM	LRDIMM	Notes
Min. Memory per CPU	1 Module / CPU			1x8GB	1x64GB	with one CPU
Max. Memory per CPU	8 Modules / CPU			8x64GB*	8x64GB	with one CPU
Max. Memory per System	16 Modules / System			1024GB*	1024GB	with two CPU
				*planned		

Memory-Speed:
Max. DDR4 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

Real maximum memory-bus speed depending on CPU type, memory configuration (DPC) and voltage setting (BIOS)

Mem. Speed provided by CPU							CX25y0 M2					
							RDIMM 2400MHz			LRDIMM 2400MHz		
Voltage setting (BIOS)							1.2V			1.2V		
							1 DPC	2 DPC	3 DPC	1 DPC	2 DPC	3 DPC
CPU with 2400MHz DDR4 Bus							2400	2400	-	2400	2400	-
CPU with 2133MHz DDR4 Bus							2133	2133	-	2133	2133	-
CPU with 1866MHz DDR4 Bus							1866	1866	-	1866	1866	-
CPU with 1600MHz DDR4 Bus							-	-	-	-	-	-

1R - Single Rank
2R - Dual Rank
4R - Quad Rank
8R - Octal Rank

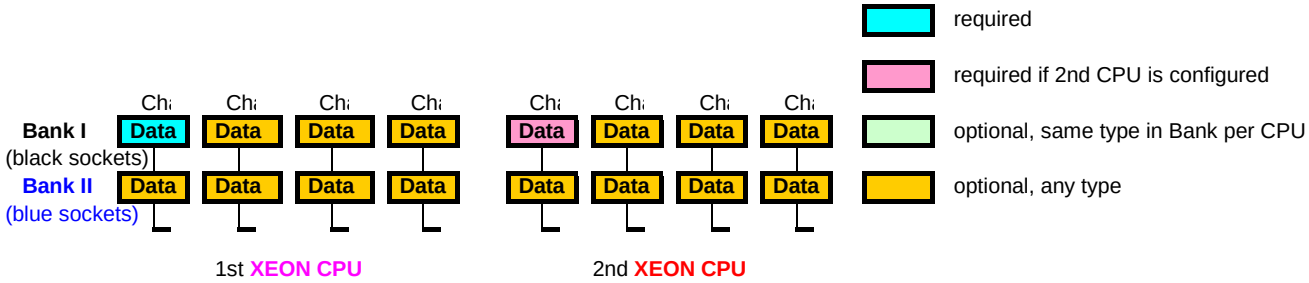
1DPC = 1 DIMM per Channel
2DPC = 2 DIMM per Channel
3DPC = 3 DIMM per Channel

Configuration hints:

- The memory sockets on the systemboard offer a color coding:
  Bank I black sockets
  Bank II blue sockets
  Bank III green sockets

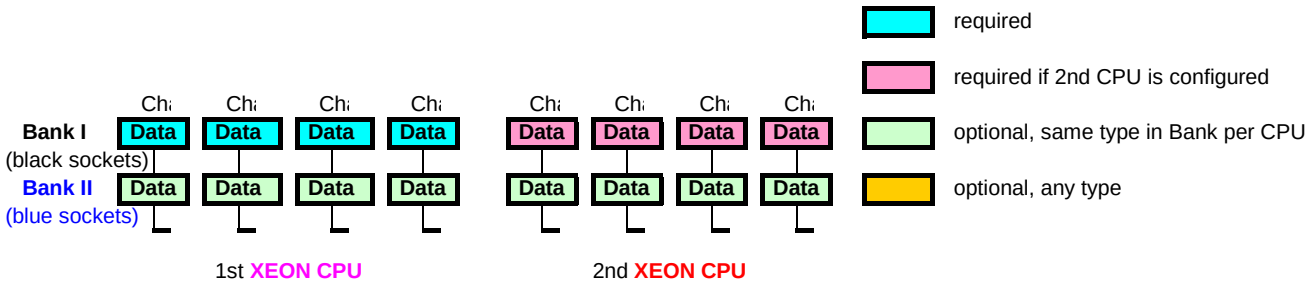
- A so called Bank consits of 1 memory module on every Channel available on one CPU (examples see below)
  Bank I on CPU 1/2 up to 4 memory modules connected to Channel A - H on the 1st/2nd CPU
  Bank II on CPU 1/2 up to 4 memory modules connected to Channel A - E on the 1st/2nd CPU
  Bank III on CPU 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.

1. Independent Channel Mode

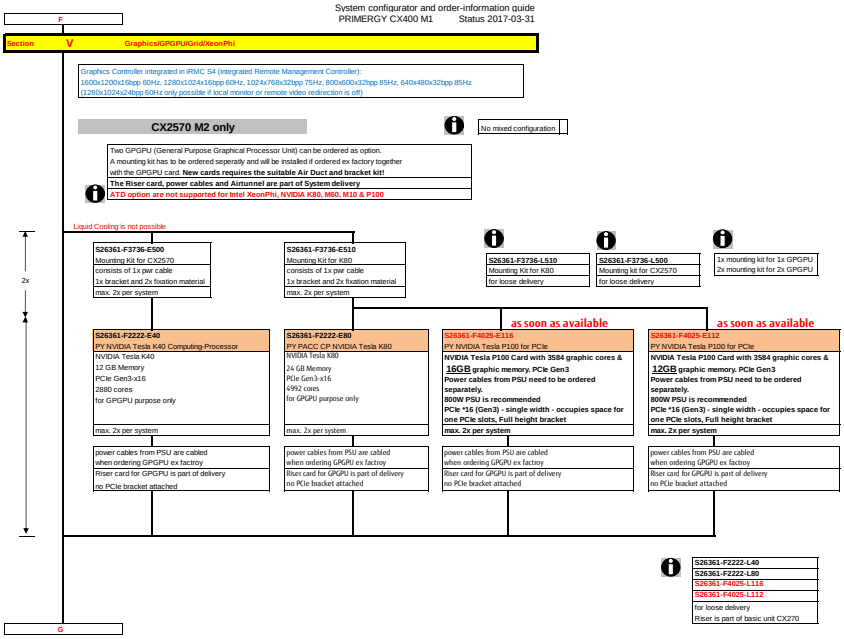


Independent Channel Mode allows all channels to be populated in any order
Can run with differently rated DIMMs and use the settings of the slowest DIMM installed in the system

3. Performance Channel Mode



Performance Channel Mode requires identical modules on all channels of each Bank per CPU.
If this mode is used, a multiple of 4 identical modules has to be ordered.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Section V Graphics/GPGPU/Grid/XeonPhi
Graphics Controller integrated in iRMC S4 (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)
CX2570 M2 only
No mixed configuration
Two GPGPU (General Purpose Graphical Processor Unit) can be ordered as option.
A mounting kit has to be ordered seperatly and will be installed if ordered ex factory together
with the GPGPU card. New cards requires the suitable Air Duct and bracket kit!
The Riser card, power cables and Airtunnel are part of System delivery
ATO option are not supported for Intel XeonPhi, NVIDIA K80, M60, M10 & P100
Liquid Cooling is not possible
2x
S26361-F3736-E500
Mounting Kit for CX2570
consists of 1x pwr cable
1x bracket and 2x fixation material
max. 2x per system
S26361-F3736-E510
Mounting Kit for K80
consists of 1x pwr cable
1x bracket and 2x fixation material
max. 2x per system
S26361-F3736-L510
Mounting Kit for K80
for loose delivery
S26361-F3736-L500
Mounting kit for CX2570
for loose delivery
1x mounting kit for 1x GPGPU
2x mounting kit for 2x GPGPU
as soon as available
as soon as available
S26361-F2222-E40
PY NVIDIA Tesla K40 Computing-Processor
NVIDIA Tesla K40
12 GB Memory
PCIe Gen3-x16
2880 cores
for GPGPU purpose only
max. 2x per system
S26361-F2222-E80
PY PACC CP NVIDIA Tesla K80
NVIDIA Tesla K80
24 GB Memory
PCIe Gen3-x16
4992 cores
for GPGPU purpose only
max. 2x per system
S26361-F4025-E116
PY NVIDIA Tesla P100 for PCIe
NVIDIA Tesla P100 Card with 3584 graphic cores & 16GB graphic memory. PCIe Gen3
Power cables from PSU need to be ordered separately.
800W PSU is recommended
PCIe *16 (Gen3) - single width - occupies space for one PCIe slots, Full height bracket
max. 2x per system
S26361-F4025-E112
PY NVIDIA Tesla P100 for PCIe
NVIDIA Tesla P100 Card with 3584 graphic cores & 12GB graphic memory. PCIe Gen3
Power cables from PSU need to be ordered separately.
800W PSU is recommended
PCIe *16 (Gen3) - single width - occupies space for one PCIe slots, Full height bracket
max. 2x per system
power cables from PSU are cabled when ordering GPGPU ex factroy
Riser card for GPGPU is part of delivery
no PCIe bracket attached
power cables from PSU are cabled when ordering GPGPU ex factroy
Riser card for GPGPU is part of delivery
no PCIe bracket attached
power cables from PSU are cabled when ordering GPGPU ex factroy
Riser card for GPGPU is part of delivery
no PCIe bracket attached
power cables from PSU are cabled when ordering GPGPU ex factroy
Riser card for GPGPU is part of delivery
no PCIe bracket attached
S26361-F2222-L40
S26361-F2222-L80
S26361-F4025-L116
S26361-F4025-L112
for loose delivery
Riser is part of basic unit CX270
G

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Supported for GPU pass through and vGPU (shared GPU) under Citrix XenServer 6.5 and XenDesktop. Workload depends on application. Ideal for virtualized GPU or shared GPU workload like "Power Users" or "Knowlegde Workers", including "Designer" as full power graphic USER (GRID K2 only).
Supported for VMware ESXi 5.5 shared (vSGA) & dedicated (vDGA) virtual graphic support and Microsoft RemoteFX under Windows Server 2012 R2.
All guests OSes are supported if listed at OS vendors HCL.
NOT certified for CAD / CAM / CAX type of applications using dedicated GPU.

Liquid Cooling is not possible

2x

S26361-F3736-E500
Mounting Kit for CX2570
consists of 1x pwr cable
1x bracket and 2x fixation material
max. 2x per system

1x mounting kit for 1x Grid
2x mounting kit for 2x Grid

S26361-F3736-L500
Mounting kit for CX2570
for loose delivery

S26361-F2222-L964
S26361-F2222-L910
for loose delivery
Riser is part of basic unit CX270

NVIDIA TESLA M60/M10 GPU pass through / vGPU

2x

S26361-F3736-E510
S26361-F3736-L510
Mounting Kit for K80
consists of 1x pwr cable
1x bracket and 2x fixation material
max. 2x per system

S26361-F3736-E500
S26361-F3736-L500
Mounting Kit for CX2570
consists of 1x pwr cable
1x bracket and 2x fixation material
max. 2x per system

2x

S26361-F2222-E964
PGRA CP NVIDIA Tesla M60
NVIDIA Tesla M60 Card with 4096 graphic cores & 16GB GDDR5 RAM. PCIe Gen3
power cables from PSU need to be ordered separately. 800W PSU is recommended
PCIe *16 (Gen3) - double width - occupies space for two PCIe slots, Full height bracket
max. 2x per system

S26361-F2222-E910
PGRA CP NVIDIA Tesla M10
NVIDIA Tesla M10 Card with 2560 graphic cores & 32GB GDDR5 RAM. PCIe Gen3
power cables from PSU need to be ordered separately. 800W PSU is recommended
PCIe *16 (Gen3) - double width - occupies space for two PCIe slots, Full height bracket
max. 2x per system

For GRID 3.0 to use the virtual graphic (GRID) funtionality, a SW activation key **and** support licence has to be purchased additionally. Please refer to additional licence oferings for Virtual Applications / Virtual PC / Virtual Workstation plus SUMs (Support, Updates & Maintenance subscriptions).
Not released as GPGPU card.

Cards personality is set to graphic card ex factory!

Perpetual Software license

~~S26361-F4024-S101~~
~~S26361-F4024-LT01~~
GRID Virtual Applications (vApps) Perpetual License, 1 CCU
32x per M60 card
64x per M10 card

as soon as available

~~S26361-F4024-S201~~
~~S26361-F4024-L201~~
NVIDIA GRID Virtual PC (vPC) Perpetual License, 1 CCU
32x per M60 card
64x per M10 card

as soon as available

~~S26361-F4024-S301~~
~~S26361-F4024-L301~~
NVIDIA Quadro Virtual Datacenter Work Station (vDWS) Perpetual License, 1 CCU
32x per M60 card
64x per M10 card

as soon as available

SUMs must be ordered in equal numbers with each SW perpetual licences. Please refer data sheet.

as soon as available

this SKU was EOL

~~S26361-F4024-S801~~
~~NVIDIA GRID vApps Prod SUMS 1st year, 1CCU~~
~~same volume with perpetual license~~

S26361-F4024-S803
L26361-F4024-L803
NVIDIA GRID vApps Prod SUMS **3 year**, 1CCU
same volume with perpetual license

S26361-F4024-S804
L26361-F4024-L804
NVIDIA GRID vApps Prod SUMS **4 year**, 1CCU
same volume with perpetual license

S26361-F4024-S805
L26361-F4024-L805
NVIDIA GRID vApps Prod SUMS **5 year**, 1CCU
same volume with perpetual license

this SKU was EOL

~~S26361-F4024-LB11~~
~~NVIDIA GRID vPC Prod SUMS 1st year, 1 CCU~~
~~same volume with perpetual license~~

S26361-F4024-SB13
L26361-F4024-LB13
NVIDIA GRID vPC Prod SUMS **3 year**, 1 CCU
same volume with perpetual license

S26361-F4024-SB14
L26361-F4024-LB14
NVIDIA GRID vPC Prod SUMS **4 year**, 1 CCU
same volume with perpetual license

S26361-F4024-SB15
L26361-F4024-LB15
NVIDIA GRID vPC Prod SUMS **5 year**, 1 CCU
same volume with perpetual license

this SKU was EOL

~~S26361-F4024-EB23~~
~~NVIDIA GRID vWS Prod SUMS 1st year, 1 CCU~~
~~same volume with perpetual license~~

S26361-F4024-SB23
L26361-F4024-LB23
NVIDIA Quadro vDWS Prod SUMS **3 year**, 1 CCU
same volume with perpetual license

S26361-F4024-SB24
L26361-F4024-LB24
NVIDIA Quadro vDWS Prod SUMS **4 year**, 1 CCU
same volume with perpetual license

S26361-F4024-SB25
L26361-F4024-LB25
NVIDIA Quadro vDWS Prod SUMS **5 year**, 1 CCU
same volume with perpetual license

as soon as available

NVIDIA SUMS License (6 months) for renewal - Loose Delivery -

S26361-F4024-L956
NVIDIA GRID vApps Prod SUMS 6 months Renew, 1CCU
NVIDIA SUMS License (6 months) for renewal. It needs if you need to continue SUMs.

S26361-F4024-L966
NVIDIA GRID vPC Prod SUMS 6 months Renew, 1 CCU
NVIDIA SUMS License (6 months) for renewal. It needs if you need to continue SUMs.

S26361-F4024-L976
NVIDIA GRID vWS Prod SUMS 6 months Renew, 1 CCU
NVIDIA SUMS License (6 months) for renewal. It needs if you need to continue SUMs.

NVIDIA SUMS License (1 year) for renewal - Loose Delivery -

S26361-F4024-L901
NVIDIA GRID vApps Prod SUMS 1yr Renew, 1CCU
NVIDIA SUMS License (1year) for renewal. It needs if you need to continue SUMs.

S26361-F4024-L911
NVIDIA GRID vPC Prod SUMS 1yr Renew, 1 CCU
NVIDIA SUMS License (1year) for renewal. It needs if you need to continue SUMs.

S26361-F4024-L921
NVIDIA GRID vWS Prod SUMS 1yr Renew, 1 CCU
NVIDIA SUMS License (1year) for renewal. It needs if you need to continue SUMs.

as soon as available

NVIDIA SUMS License (2 years) for renewal - Loose Delivery -

S26361-F4024-L952
NVIDIA GRID vApps Prod SUMS 2yrs Renew, 1CCU
NVIDIA SUMS License (2years) for renewal. It needs if you need to continue SUMs.

S26361-F4024-L962
NVIDIA GRID vPC Prod SUMS 2yrs Renew, 1 CCU
NVIDIA SUMS License (2years) for renewal. It needs if you need to continue SUMs.

S26361-F4024-L972
NVIDIA GRID vWS Prod SUMS 2yrs Renew, 1 CCU
NVIDIA SUMS License (2years) for renewal. It needs if you need to continue SUMs.

as soon as available

NVIDIA SUMS License (3 years) for renewal - Loose Delivery -

S26361-F4024-L953
NVIDIA GRID vApps Prod SUMS 3yrs Renew, 1CCU
NVIDIA SUMS License (3years) for renewal. It needs if you need to continue SUMs.

S26361-F4024-L963
NVIDIA GRID vPC Prod SUMS 3yrs Renew, 1 CCU
NVIDIA SUMS License (3years) for renewal. It needs if you need to continue SUMs.

S26361-F4024-L973
NVIDIA GRID vWS Prod SUMS 3yrs Renew, 1 CCU
NVIDIA SUMS License (3years) for renewal. It needs if you need to continue SUMs.

as soon as available

NVIDIA SUMS License (4 years) for renewal - Loose Delivery -

S26361-F4024-L954
NVIDIA GRID vApps Prod SUMS 4yrs Renew, 1CCU
NVIDIA SUMS License (4years) for renewal. It needs if you need to continue SUMs.

S26361-F4024-L964
NVIDIA GRID vPC Prod SUMS 4yrs Renew, 1 CCU
NVIDIA SUMS License (4years) for renewal. It needs if you need to continue SUMs.

S26361-F4024-L974
NVIDIA GRID vWS Prod SUMS 4yrs Renew, 1 CCU
NVIDIA SUMS License (4years) for renewal. It needs if you need to continue SUMs.

as soon as available

NVIDIA SUMS License (5 years) for renewal - Loose Delivery -

S26361-F4024-L955
NVIDIA GRID vApps Prod SUMS 5yrs Renew, 1CCU
NVIDIA SUMS License (5years) for renewal. It needs if you need to continue SUMs.

S26361-F4024-L965
NVIDIA GRID vPC Prod SUMS 5yrs Renew, 1 CCU
NVIDIA SUMS License (5years) for renewal. It needs if you need to continue SUMs.

S26361-F4024-L975
NVIDIA GRID vWS Prod SUMS 5yrs Renew, 1 CCU
NVIDIA SUMS License (5years) for renewal. It needs if you need to continue SUMs.

Subscription Software license

as soon as available

S26361-F4024-S111
S26361-F4024-L111
GRID Virtual Applications (vApps) Subscription License, **1 year**, 1 CCU
32x per M60 card
64x per M10 card

S26361-F4024-S113
S26361-F4024-L113
GRID Virtual Applications (vApps) Subscription License, **3 years**, 1 CCU
32x per M60 card
64x per M10 card

S26361-F4024-S115
S26361-F4024-L115
GRID Virtual Applications (vApps) Subscription License, **5 years**, 1 CCU
32x per M60 card
64x per M10 card

as soon as available

S26361-F4024-S211
S26361-F4024-L211
NVIDIA GRID Virtual PC (vPC) Subscription License, **1 year**, 1 CCU
32x per M60 card
64x per M10 card

S26361-F4024-S213
S26361-F4024-L213
NVIDIA GRID Virtual PC (vPC) Subscription License, **3 years**, 1 CCU
32x per M60 card
64x per M10 card

S26361-F4024-S215
S26361-F4024-L215
NVIDIA GRID Virtual PC (vPC) Subscription License, **5 years**, 1 CCU
32x per M60 card
64x per M10 card

as soon as available

S26361-F4024-S311
S26361-F4024-L311
NVIDIA Quadro Virtual Datacenter Work Station (vDWS) Subscription License, **1 year**, 1 CCU
32x per M60 card
64x per M10 card

S26361-F4024-S313
S26361-F4024-L313
NVIDIA Quadro Virtual Datacenter Work Station (vDWS) Subscription License, **3 years**, 1 CCU
32x per M60 card
64x per M10 card

S26361-F4024-S315
S26361-F4024-L315
NVIDIA Quadro Virtual Datacenter Work Station (vDWS) Subscription License, **5 years**, 1 CCU
32x per M60 card
64x per M10 card

this license model is NOT requirement for SUMS(Support license). It is including it.

as soon as available

NVIDIA Subscription License (6 months) for renewal - Loose Delivery -

S26361-F4024-L906
NVIDIA GRID vApps Subscription License 6 months Renew, 1CCU
NVIDIA Subscription License (6 months) for renewal. It needs if you need to continue Subscription.

S26361-F4024-L916
NVIDIA GRID vPC Subscription License 6 months Renew, 1 CCU
NVIDIA Subscription License (6 months) for renewal. It needs if you need to continue Subscription.

S26361-F4024-L926
NVIDIA GRID Quadro vDWS Subscription License 6 months Renew, 1 C
NVIDIA Subscription License (6 months) for renewal. It needs if you need to continue Subscription.

NVIDIA Subscription License (1year) for renewal - Loose Delivery -

S26361-F4024-L902
NVIDIA GRID vApps Subscription License 1yr Renew, 1CCU
NVIDIA Subscription License (1 year) for renewal. It needs if you need to continue Subscription.

S26361-F4024-L912
NVIDIA GRID vPC Subscription License 1yr Renew, 1 CCU
NVIDIA Subscription License (1 year) for renewal. It needs if you need to continue Subscription.

S26361-F4024-L922
NVIDIA GRID Quadro vDWS Subscription License 1yr Renew, 1 CCU
NVIDIA Subscription License (1 year) for renewal. It needs if you need to continue Subscription.

as soon as available

NVIDIA Subscription License (2years) for renewal - Loose Delivery -

S26361-F4024-L900
NVIDIA GRID vApps Subscription License 2yrs Renew, 1CCU
NVIDIA Subscription License (2 years) for renewal. It needs if you need to continue Subscription.

S26361-F4024-L910
NVIDIA GRID vPC Subscription License 2yrs Renew, 1 CCU
NVIDIA Subscription License (2 years) for renewal. It needs if you need to continue Subscription.

S26361-F4024-L920
NVIDIA GRID Quadro vDWS Subscription License 2yrs Renew, 1 CCU
NVIDIA Subscription License (2 years) for renewal. It needs if you need to continue Subscription.

as soon as available

NVIDIA Subscription License (3years) for renewal - Loose Delivery -

S26361-F4024-L903
NVIDIA GRID vApps Subscription License 3yrs Renew, 1CCU
NVIDIA Subscription License (3 years) for renewal. It needs if you need to continue Subscription.

S26361-F4024-L913
NVIDIA GRID vPC Subscription License 3yrs Renew, 1 CCU
NVIDIA Subscription License (3 years) for renewal. It needs if you need to continue Subscription.

S26361-F4024-L923
NVIDIA GRID Quadro vDWS Subscription License 3yrs Renew, 1 CCU
NVIDIA Subscription License (3 years) for renewal. It needs if you need to continue Subscription.

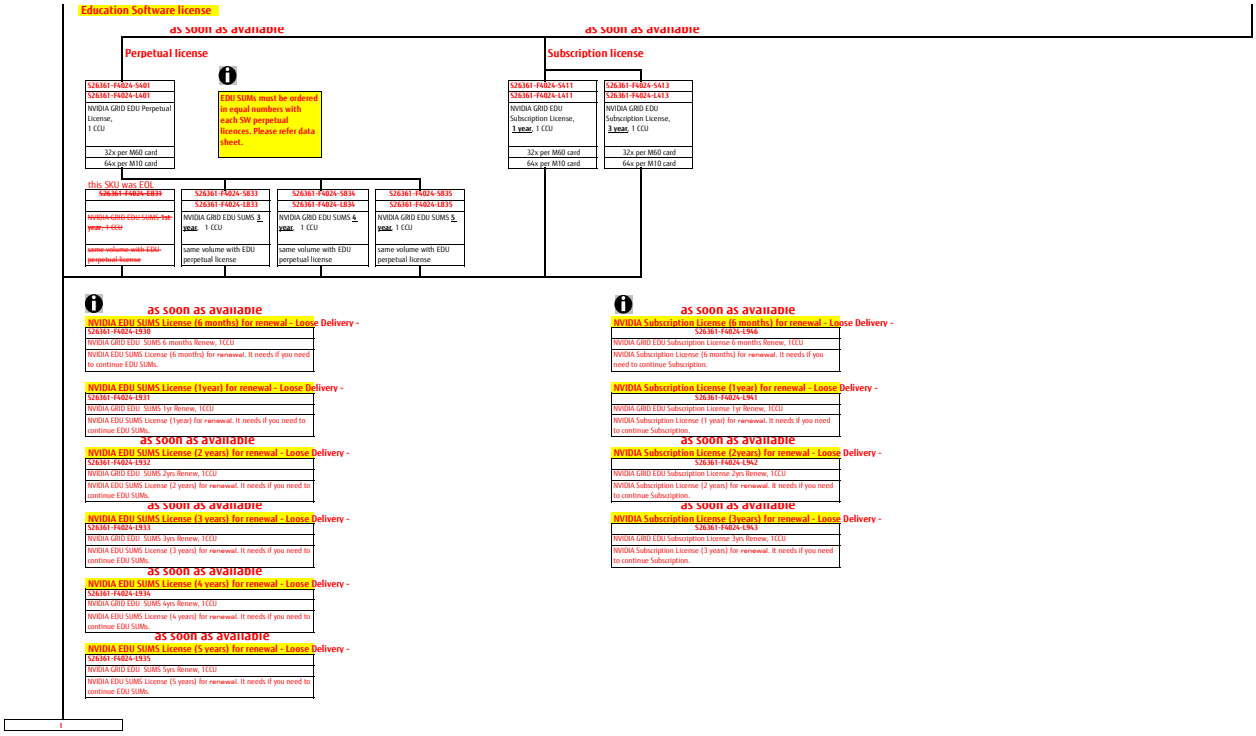
as soon as available

NVIDIA Subscription License (5years) for renewal - Loose Delivery -

S26361-F4024-L905
NVIDIA GRID vApps Subscription License 5yrs Renew, 1CCU
NVIDIA Subscription License (5 years) for renewal. It needs if you need to continue Subscription.

S26361-F4024-L915
NVIDIA GRID vPC Subscription License 5yrs Renew, 1 CCU
NVIDIA Subscription License (5 years) for renewal. It needs if you need to continue Subscription.

S26361-F4024-L925
NVIDIA GRID Quadro vDWS Subscription License 5yrs Renew, 1 CCU
NVIDIA Subscription License (5 years) for renewal. It needs if you need to continue Subscription.


Education Software license
as soon as available
as soon as available
Perpetual license
Subscription license
S26361-F4024-S401
S26361-F4024-L401
NVIDIA GRID EDU Perpetual License, 1 CCU
32x per M60 card
64x per M10 card
EDU SUMs must be ordered in equal numbers with each SW perpetual licences. Please refer data sheet.
S26361-F4024-S411
S26361-F4024-L411
NVIDIA GRID EDU Subscription License, 1 year, 1 CCU
32x per M60 card
64x per M10 card
S26361-F4024-S413
S26361-F4024-L413
NVIDIA GRID EDU Subscription License, 3 year, 1 CCU
32x per M60 card
64x per M10 card
this SKU was EOL
S26361-F4024-S833
NVIDIA GRID EDU SUMS 1st year, 1 CCU
same volume with EDU perpetual license
S26361-F4024-S833
S26361-F4024-L833
NVIDIA GRID EDU SUMS 3 year, 1 CCU
same volume with EDU perpetual license
S26361-F4024-S834
S26361-F4024-L834
NVIDIA GRID EDU SUMS 4 year, 1 CCU
same volume with EDU perpetual license
S26361-F4024-S835
S26361-F4024-L835
NVIDIA GRID EDU SUMS 5 year, 1 CCU
same volume with EDU perpetual license
as soon as available
NVIDIA EDU SUMS License (6 months) for renewal - Loose Delivery -
S26361-F4024-L930
NVIDIA GRID EDU SUMS 6 months Renew, 1CCU
NVIDIA EDU SUMS License (6 months) for renewal. It needs if you need to continue EDU SUMs.
NVIDIA EDU SUMS License (1year) for renewal - Loose Delivery -
S26361-F4024-L931
NVIDIA GRID EDU SUMS 1yr Renew, 1CCU
NVIDIA EDU SUMS License (1year) for renewal. It needs if you need to continue EDU SUMs.
as soon as available
NVIDIA EDU SUMS License (2 years) for renewal - Loose Delivery -
S26361-F4024-L932
NVIDIA GRID EDU SUMS 2yrs Renew, 1CCU
NVIDIA EDU SUMS License (2 years) for renewal. It needs if you need to continue EDU SUMs.
as soon as available
NVIDIA EDU SUMS License (3 years) for renewal - Loose Delivery -
S26361-F4024-L933
NVIDIA GRID EDU SUMS 3yrs Renew, 1CCU
NVIDIA EDU SUMS License (3 years) for renewal. It needs if you need to continue EDU SUMs.
as soon as available
NVIDIA EDU SUMS License (4 years) for renewal - Loose Delivery -
S26361-F4024-L934
NVIDIA GRID EDU SUMS 4yrs Renew, 1CCU
NVIDIA EDU SUMS License (4 years) for renewal. It needs if you need to continue EDU SUMs.
as soon as available
NVIDIA EDU SUMS License (5 years) for renewal - Loose Delivery -
S26361-F4024-L935
NVIDIA GRID EDU SUMS 5yrs Renew, 1CCU
NVIDIA EDU SUMS License (5 years) for renewal. It needs if you need to continue EDU SUMs.
as soon as available
NVIDIA Subscription License (6 months) for renewal - Loose Delivery -
S26361-F4024-L946
NVIDIA GRID EDU Subscription License 6 months Renew, 1CCU
NVIDIA Subscription License (6 months) for renewal. It needs if you need to continue Subscription.
NVIDIA Subscription License (1year) for renewal - Loose Delivery -
S26361-F4024-L941
NVIDIA GRID EDU Subscription License 1yr Renew, 1CCU
NVIDIA Subscription License (1 year) for renewal. It needs if you need to continue Subscription.
as soon as available
NVIDIA Subscription License (2years) for renewal - Loose Delivery -
S26361-F4024-L942
NVIDIA GRID EDU Subscription License 2yrs Renew, 1CCU
NVIDIA Subscription License (2 years) for renewal. It needs if you need to continue Subscription.
as soon as available
NVIDIA Subscription License (3years) for renewal - Loose Delivery -
S26361-F4024-L943
NVIDIA GRID EDU Subscription License 3yrs Renew, 1CCU
NVIDIA Subscription License (3 years) for renewal. It needs if you need to continue Subscription.

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Section V Accessible drives

Setup by ServerStart is supported with following configurations:
no DVD, no CD:
remote installation only (PXE service & DHCP server required)
built in DVD or USB DVD:
UNC Network share reachable or USB Floppy or MemoryBird connected

If installation is done locally, make sure you have USB stick available for driver installation.

Following USB Components are available		
1) USB DVD SM / Blu-Ray		
External SuperMulti Drive	S26341-F103-L126	as long as available
External Blu-Ray Drive	S26341-F103-L127	as long as available
2) USB Memorybird:		
MyUSBS A910 8GB, MLC Flash	S26391-F6048-L208	as long as available
MyUSBS A910 16GB, MLC Flash	S26391-F6048-L216	as long as available

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Section Va Chassis Selection

S26361-K1530-V300 — see Sheet "2.5" HDD"

S26361-K1530-V100
S26361-K1530-V200

Section VI Drive Bay for 6x HDD/SSDs

Type A

S26361-F5519-E10
6x 2.5" HDD/SSD
SAS / SATA only
max. 1x per CX25y0

Type B

S26361-F5519-E20
6x 2.5" HDD/SSD
SAS / SATA / PCIe
max. 1x per CX25y0

S26361-F5519-E50
Dummy HDD cage
(no front HDD/SSD usage)
max. 1x per CX25y0

No loose delivery available (only special release)
Therefore above three types must be selected
for dummy node by special release

Section VII Modular Raid 0/1, Raid5 for 4x / 8x 2.5" SAS or SATA HD`s. On-board Controller for 4x 2.5" SATA or SAS HD`s

On board SATA Controller with 6 Gb/s and up to 6x 2.5" SATA HDDs (no additional controller required)
For SAS HDD/SSD a modular RAID-controllers is required
For Read-Intensive SATA SSDs (*F5525*) a modular RAID-controllers is required
For PCIe SSD, no additional controller required

For SAS / SATA HDD and SSD

Modular Raid 0/1 controller with IME support for SAS/SATA
This RAID controller supports 8 ports on the **4 + 4** internal SAS ports

Onb. SATA Controller
Selectable on BIOS setting
AHCI mode (default) or RAID
(0 / 1)

S26361-F5552-E330
SATA Cable
needed to be ordered 1x
SATA drives <= 4pcs
needed to be ordered 2x
SATA drives > 4pcs
max. 2x per system

Modular Raid 5 controller for SAS/SATA
RAID levels 0, 1, 10, 5, 50, 6 and 60 are supported.
This RAID controller supports 8 HDDs on the **4 + 4** internal SAS ports

1x

Solid State Disk, Boot Drive, SATA DOM (SATADOM Port, AHCI)

SSD SATA 6Gb/s DOM, Boot Device, non "hot plug/hot replace"
64GB, 0.14 DWPD over 5y — S26361-F5619-E64
128GB, 0.13 DWPD over 5y — S26361-F5619-E128
SATADOM is designed for use as a boot drive with the Endurance Spec. above.
Vmware not supported.
max. 1x per system

Solid State Disk, Boot Drive, SATA DOM SLC (SATADOM Port, AHCI)

SSD SATA 6Gb/s DOM SLC, Boot Device, non "hot plug/hot replace"
64GB, SATA DOM SLC — S26361-F5621-E64
SATADOM SLC is designed for use as a Virtual SAN boot drive.
VMware ESXi 6.0 U2 or later is supported.
max. 1x per system

Liquid Cooling is not possible

S26361-F3842-E1
PRAID CP400i
Based on chip LSISAS3008
LSI MegaRAID
no Cache, no BBU
RAID 0, 1m 10, 10E, 5, 50
Support for 3Gb/s, 6Gb/s and 12Gb/s SATA and SAS hard drives
PCIe 3.0 x8
Low profile ex factory
max. 1x per system

S26361-F5243-E1
PRAID EP400i
Based on chip LSISAS3108
LSI MegaRAID
1GB Cache with ECC
RAID 0, 1, 10, 5, 50, 6, 60
No optional FBU
Support for 3Gb/s, 6Gb/s and 12Gb/s SATA and SAS hard drives
PCIe 3.0 x8
Low / High profile ex factory
max. 1x per system

S26361-F5243-E2*
PRAID EP420i
Based on chip LSISAS3108
LSI MegaRAID
2GB Cache with ECC
RAID 0, 1, 10, 5, 50, 6, 60
No optional FBU
Support for 3Gb/s, 6Gb/s and 12Gb/s SATA and SAS hard drives
PCIe 3.0 x8
Low / High profile ex factory
max. 1x per system

S26361-F5243-E4/L4*
PRAID EP420i for SafeStore
supports HDD Encryption
available on special release

**It is strongly recommended to order SafeStore (SED) RAID controller with SED HDD or SSD devices for SafeStore (SED) functionality

Controller supports OOB-RAID including HDD monitoring. No OOB-HDD cable needed

S26361-F5243-E660
RAID Advanced Software Options
License Activation Key
for CacheCade 2.0 and FastPath
for 1 Controller

Loose delivery
S26361-F3842-L501
S26361-F5243-L1 / L2
S26361-F5243-L660
S26361-F5552-L330
S26361-F5552-L350
(2x cables are required in case of >=4HDDs are installed per node)

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CX25y0 M2

Section VIII 2.5" SAS / SATA / PCIe Hard disk drives / SATADOM

Advanced Thermal Design
refer to ATD with S26361-F3776-E240

CPU type	Ambient temp	front HDD	PCIe slots Air cooled	PCIe slots Liquid cooled
w/o ATD option				
<= 145W	35°C	6	2	1
160W	30°C	0	2	1
w/ ATD option				
135/145/160W (Liquid cooling only)	40°C	6	-	1
135W	40°C	2	2	1
<=120W	40°C	6	2	1

ATD refer to S26361-F3776-E240
(Advanced Thermal Design)

Warranty:
SSD and SATA DOM have a built-in Wear-Out indicator.
In this case the warranty for such a component,
as an exception to the system warranty, is restricted to
the time period until the indicator reaches the exhaust level.

SATA Disk Drive 2.5"

HDD SATA 6Gb/s 2.5" with hot plug/hot replace tray	
1TB 7.2krpm,64MB Cache, 512n	S26361-F3895-E100
1TB 7.2krpm, 128MB Cache, 512e	S26361-F3936-E100
2TB 7.2krpm,128MB Cache, 512e	S26361-F3936-E200
max. 2/6x per server node	

Enterprise Solid State Disk, 3DWPD over 5 years

SSD SATA 6Gb/s 2.5" with hot plug/hot replace tray	
240GB, for read/write workload (mixed-use)	S26361-F5588-E240
480GB for read/write workload (mixed-use)	S26361-F5588-E480
240GB, for read/write workload (mixed-use)	S26361-F5675-E240
480GB for read/write workload (mixed-use)	S26361-F5675-E480
960GB, for read/write workload (mixed-use)	S26361-F5588-E960
1.92TB, for read/write workload (mixed-use)	S26361-F5588-E192
max. 2/6 per server node	

CX25y0 M2
Endurance
3DWPD over 5y

SATA

Enterprise Solid State Disk, 1DWPD over 5 years

SSD SATA 6Gb/s 2.5" with hot plug/hot replace tray	
240GB, Enterprise (EP), Read-Intensive (1DWPD/5y)	S26361-F5632-E240
480GB, Enterprise (EP), Read-Intensive (1DWPD/5y)	S26361-F5632-E480
800GB, Enterprise (EP), Read-Intensive (1DWPD/5y)	S26361-F5632-E800
960GB, Enterprise (EP), Read-Intensive (1DWPD/5y)	S26361-F5632-E960
1.2TB, Enterprise (EP), Read-Intensive (1DWPD/5y)	S26361-F5632-E120
1.6TB, Enterprise (EP), Read-Intensive (1DWPD/5y)	S26361-F5632-E160
max. 2/6 per server node	

CX25y0 M2
Endurance
1DWPD over 5y

SATA

SSD SATA 6Gb/s 2.5" with hot plug/hot replace tray		CX25y0 M2
240GB, Enterprise (EP), Read-Intensive (1.4DWPD/5y)	S26361-F5701-E240	as soon as available
480GB, Enterprise (EP), Read-Intensive (0.9DWPD/5y)	S26361-F5701-E480	as soon as available
960GB, Enterprise (EP), Read-Intensive (0.9DWPD/5y)	S26361-F5701-E960	as soon as available
1.92TB, Enterprise (EP), Read-Intensive (0.9DWPD/5y)	S26361-F5701-E192	as soon as available
3.84TB, Enterprise (EP), Read-Intensive (1.0DWPD/5y)	S26361-F5701-E384	as soon as available
7.68TB, Enterprise (EP), Read-Intensive (0.5DWPD/5y)	S26361-F5701-E768	as soon as available
max. 2/6 per server node		

SATA

SAS Disk Drive 2.5" Liquid Cooling is not possible

SAS Disk Drive 2.5"

HDD SAS 12Gb/s 2.5" with hot plug/hot replace tray	
1TB 7.2krpm, 512n Sektor Size, 128MB Cache	S26361-F5600-E100
2TB 7.2krpm, 512n Sektor Size, 128MB Cache	S26361-F5600-E200
300GB 10krpm, 512n Sektor Size, 128MB Cache	S26361-F5550-E130
600GB 10krpm, 512n Sektor Size, 128MB Cache	S26361-F5550-E160
900GB 10krpm, 512n Sektor Size, 128MB Cache	S26361-F5550-E190
1.2TB 10krpm, 512n Sektor Size, 128MB Cache	S26361-F5550-E112
300GB, 10krpm, 128MB Cache, 512n, SED*	S26361-F5581-E130
600GB, 10krpm, 128MB Cache, 512n, SED*	S26361-F5581-E160
1.2TB, 10krpm, 128MB Cache, 512n, SED*	S26361-F5581-E112
600GB 10krpm, 512e Sektor Size, 128MB Cache	S26361-F5543-E160
900GB 10krpm, 512e Sektor Size, 128MB Cache	S26361-F5543-E190
1.2TB 10krpm, 512e Sektor Size, 128MB Cache	S26361-F5543-E112
1.8TB 10krpm, 512e Sektor Size, 128MB Cache	S26361-F5543-E118
1.8TB, 10krpm, 128MB Cache, 512e, SED*	S26361-F5582-E118
300GB 15krpm, 512n Sektor Size, 128MB Cache	S26361-F5531-E530
450GB 15krpm, 512n Sektor Size, 128MB Cache	S26361-F5531-E545
600GB 15krpm, 512n Sektor Size, 128MB Cache	S26361-F5531-E560
max. 2 / 6 per server node	

SAS

SED (=Self Encrypting Drives) require either a RAID controller with *SafeStore (SED) support or an HBA and in addition a software instance, supporting SED Key Management.
It is strongly recommended to order SafeStore (SED) RAID controller with SED HDD or SSD devices for SafeStore (SED) functionality.

Liquid Cooling is not possible

Enterprise Solid State Disk, Mainstream Endurance*

*) SSD Mainstream Endurance
10DWPD over 5y

SSD SAS 12Gb/s 2.5" with hot plug/hot replace tray	
400GB, Enterprise Performance	S26361-F5608-E400
800GB, Enterprise Performance	S26361-F5608-E800
1.6TB, Enterprise Performance	S26361-F5608-E160
400GB, Enterprise (EP), 10DWPD (5y), SED*	S26361-F5611-E400
800GB, Enterprise (EP), 10DWPD (5y), SED*	S26361-F5611-E800
1.6TB, Enterprise (EP), 10DWPD (5y), SED*	S26361-F5611-E160
max. 2/6x per server node	

SSD Interface: SAS12Gb/s and SAS 6Gb/s.
For 12G support is an SAS 12G controller required

SSD SAS 12Gb/s 2.5" with hot plug/hot replace tray	
480GB, for read/write workload (mixed-use)	S26361-F5614-E480
960GB, for read/write workload (mixed-use)	S26361-F5614-E960
1.92TB, for read/write workload (mixed-use)	S26361-F5614-E192
3.84TB, for read/write workload (mixed-use)	S26361-F5614-E384
400GB, for read/write workload (mixed-use)	S26361-F5666-E400
800GB, for read/write workload (mixed-use)	S26361-F5666-E800
1.6TB, for read/write workload (mixed-use)	S26361-F5666-E160
3.2TB, for read/write workload (mixed-use), 2.3DWPD (5y)	S26361-F5666-E320
max. 2/6x per server node	

Endurance
3DWPD over 5y

SSD SAS 12Gb/s 2.5" with hot plug/hot replace tray	
480GB, read intensive	S26361-F5617-E480
960GB, read intensive	S26361-F5617-E960
1.92TB, read intensive	S26361-F5617-E192
3.84TB, read intensive	S26361-F5617-E384
480GB, read intensive	S26361-F5670-E480
960GB, read intensive	S26361-F5670-E960
1.92TB, read intensive	S26361-F5670-E192
3.84TB, read intensive	S26361-F5670-E384
max. 2/6x per server node	

Endurance
1DWPD over 5y

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Section VI Drive Bay for 2x HDD/SSDs

CX400 M1 - S26361-K1530-V300 only

as soon as available

S26361-F5519-E300
Dummy HDD kit
max. 1x per CX25y0

Section VII On-board Controller and SATA DOM

On board SATA Controller with 6 Gb/s and up to 6x 2.5" SATA HDDs (no additional controller required)

Warranty:
SSD and SATA DOM (except for SLC) have a built-in Wear-Out indicator. In this case the warranty for such a component, as an exception to the system warranty, is restricted to the time period until the indicator reaches the exhaust level.

Onb. SATA Controller
Selectable on BIOS setting
AHCI mode (default) or RAID (0 / 1)

S26361-F5552-E330
SATA Cable
needed to be ordered 1x SATA drives <= 2pcs
max. 1x per system

Solid State Disk, Boot Drive, SATA DOM (SATADOM Port, AHCI)

1x

SSD SATA 6Gb/s DOM, Boot Device, non "hot plug/hot replace"	
64GB, 0.14 DWPD over 5y	S26361-F5619-E64
128GB, 0.13 DWPD over 5y	S26361-F5619-E128
SATADOM is designed for use as a boot drive with the Endurance Spec. above.	
Vmware not supported.	
max. 1x per system	

Solid State Disk, Boot Drive, SATA DOM SLC (SATADOM Port, AHCI)

SSD SATA 6Gb/s DOM SLC, Boot Device, non "hot plug/hot replace"	
64GB, SATA DOM SLC	S26361-F5621-E64
SATADOM SLC is designed for use as a Virtual SAN boot drive.	
VMware ESXi 6.0 U2 or later is supported.	
max. 1x per system	

Section VIII 2.5" SATA HDD / SSD

SATA Disk Drive 2.5"

SATA

HDD SATA 6Gb/s 2.5" with hot plug/hot replace tray	
1TB 7.2krpm,<9,5ms, 64MB Cache, 512n	S26361-F3895-E100
1TB 7.2krpm,<9,5ms, 128MB Cache, 512e	S26361-F3936-E100
2TB 7.2krpm,<9,5ms, 128MB Cache, 512e	S26361-F3936-E200
max. 2 per server node	

Mixed configuration with SAS HDD not supported

Enterprise Solid State Disk, 3DWPD over 5 years

CX25y0 M2
Endurance
3DWPD over 5y

SSD SATA 6Gb/s 2.5" with hot plug/hot replace tray	
240GB, for read/write workload (mixed-use)	S26361-F5588-E240
480GB, for read/write workload (mixed-use)	S26361-F5588-E480
240GB, for read/write workload (mixed-use)	S26361-F5675-E240
480GB, for read/write workload (mixed-use)	S26361-F5675-E480
960GB, for read/write workload (mixed-use)	S26361-F5588-E960
1.92TB, for read/write workload (mixed-use)	S26361-F5588-E192
max. 2 per server node	

SATA

Enterprise Solid State Disk, 1DWPD over 5 years

CX25y0 M2
Endurance
1DWPD over 5y

SSD SATA 6Gb/s 2.5" with hot plug/hot replace tray	
240GB, Enterprise (EP), Read-Intensive (1DWPD/5y)	S26361-F5632-E240
480GB, Enterprise (EP), Read-Intensive (1DWPD/5y)	S26361-F5632-E480
800GB, Enterprise (EP), Read-Intensive (1DWPD/5y)	S26361-F5632-E800
960GB, Enterprise (EP), Read-Intensive (1DWPD/5y)	S26361-F5632-E960
1.2TB, Enterprise (EP), Read-Intensive (1DWPD/5y)	S26361-F5632-E120
1.6TB, Enterprise (EP), Read-Intensive (1DWPD/5y)	S26361-F5632-E160
max. 2 per server node	

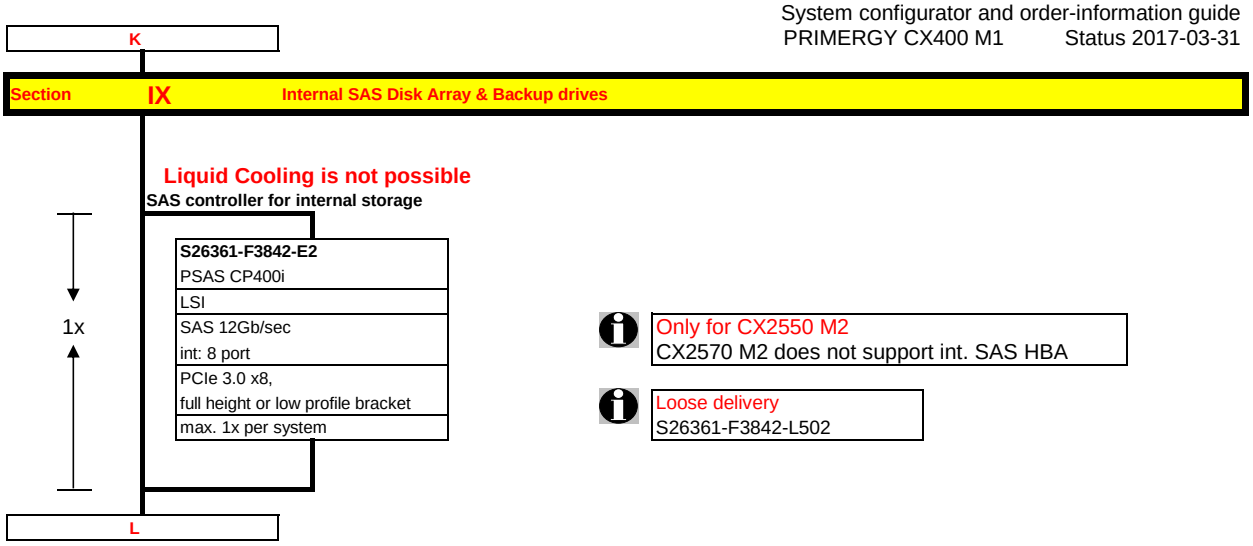
SATA

CX25y0 M2

SSD SATA 6Gb/s 2.5" with hot plug/hot replace tray		
240GB, Enterprise (EP), Read-Intensive (1.4DWPD/5y)	S26361-F5701-E240	as soon as available
480GB, Enterprise (EP), Read-Intensive (0.9DWPD/5y)	S26361-F5701-E480	as soon as available
960GB, Enterprise (EP), Read-Intensive (0.9DWPD/5y)	S26361-F5701-E960	as soon as available
1.92TB, Enterprise (EP), Read-Intensive (0.9DWPD/5y)	S26361-F5701-E192	as soon as available
3.84TB, Enterprise (EP), Read-Intensive (1.0DWPD/5y)	S26361-F5701-E384	as soon as available
7.68TB, Enterprise (EP), Read-Intensive (0.5DWPD/5y)	S26361-F5701-E768	as soon as available
max. 2/6 per server node		

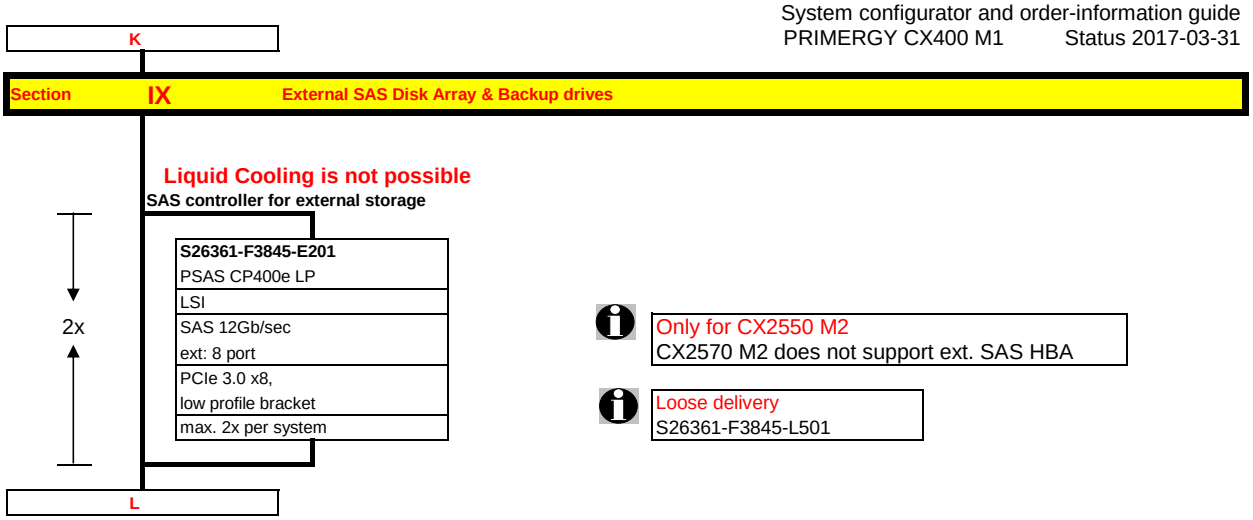
SATA

K



Only for CX2550 M2
CX2570 M2 does not support int. SAS HBA

Loose delivery
S26361-F3842-L502



Only for CX2550 M2
CX2570 M2 does not support ext. SAS HBA

Loose delivery
S26361-F3845-L501

L

No FC card support for Liquid Cooling

Section X Fibre Channel

No mix and match of different FC Controllers possible.

All controllers for the connection of external storage system are delivered without cables. For the configuration of external cabling see the configurator for external storage system.

Fibre Channel Controller for external storage systems

Liquid cooling is not possible

S26361-F3961-E201
8GBit/s FC Controller
Emulex
LPe1250, low profile bracket
1 channel 8GBit/sec FC Controller
LC Interface for 50µm Fiber
PCIe x4, 170mm
max. 2x per system

S26361-F3961-E202
8GBit/s FC Controller
Emulex
LPe12002, low profile bracket
2 channel 8GBit/sec FC Controller
LC Interface for 50µm Fiber
PCIe x4, 170mm
max. 2x per system

loose delivery:
Single channel S26361-F3961-L201
Dual Channel S26361-F3961-L202
with mounted LP bracket
FH bracket is not included

2x

Liquid cooling is not possible

S26361-F4994-E202
16GBit/s FC Controller
Emulex
LPe16002, low profile bracket
2 channel 16GBit/sec FC Contr.
LC Interface for 50µm Fiber
PCIe x8, 170mm
max. 2x per system

S26361-F5313-E202
16GBit/s FC Controller
Qlogic
QLE2672, low profile bracket
2 channel 16GBit/sec FC Contr.
LC Interface for 50µm Fiber
PCIe x8, 170mm
max. 1x per system

S26361-F5580-E202
16GBit/s FC Controller
Qlogic
QLE2692, low profile bracket
2 channel 16GBit/sec FC Contr.
LC Interface for 50µm Fiber
PCIe x8, 170mm
max. 2x per system

loose delivery:
Dual Channel S26361-F4994-L502
Dual Channel S26361-F5313-L502
Dual Channel S26361-F5580-L502
contains LP and FH brackets.

32Gb Fibre Channel controller generation 6 with LC interface for 50µm optical cables (OM3 or OM4)				
Triple speed support - supports 32Gb, 16Gb, and 8Gb				
PFC EP LPe32002 2x 32Gb	2x	2 port, full height, Broadcom/Emulex	**S26361-F4044-E2**	**S26361-F4044-L502**
PFC EP LPe32002 2x 32Gb LP	2x	2 port, low profile, Broadcom/Emulex	**S26361-F4044-E202**	**S26361-F4044-L502**
16Gb Fibre Channel controller generation 6 with LC interface for 50µm optical cables (OM3 or OM4)				
Triple speed support - supports 16Gb, 8Gb, and 4Gb				
PFC EP LPe31002 2x 16Gb	2x	2 port, full height, Broadcom/Emulex	**S26361-F5596-E2**	**S26361-F5596-L502**
PFC EP LPe31002 2x 16Gb LP	2x	2 port, low profile, Broadcom/Emulex	**S26361-F5596-E202**	**S26361-F5596-L502**

M

M

Chapter 11 - Communication / Network

2x Gigabit (Dualport) Ethernet Contr. onboard
Intel LAN I350 (Powerville)
ext: 2x RJ 45 connector

1Gb Ethernet network components

Liquid cooling is not possible

1Gb Ethernet controller with RJ45 interface (1000BASE-T)				
PLAN CP 2x1Gbit Cu Intel I350-T2 LP	2x	2 port, Intel	S26361-F4610-E202	S26361-F4610-L502
PLAN CP 2x1Gbit Cu Intel I350-T4 LP	2x	4 port, Intel	S26361-F4610-E204	S26361-F4610-L504
max. 2 Controller per system				

10Gb Ethernet network components

Liquid cooling is not possible

10Gb Ethernet controller with RJ45 interface (10GBASE-T)				
Eth Ctrl 2x10GBase-T PCIe x8 X540-T2 LP	2x	2 port NIC, Intel	S26361-F3752-E202	S26361-F3752-L502
PLAN EP X550-T2 2x10GBASE-T LP	2x	2 port NIC, Intel	S26361-F3948-E202	S26361-F3948-L502
PLAN EP OCe14102 2x 10GBase-T LP	2x	2 port NIC with RDMA, Emulex	S26361-F5557-E201	S26361-F5557-L501
10Gb Ethernet controller with SFP+ interface (for SFP+ modules or twinax cables, Fujitsu / Intel based)				
Eth Ctrl 2x10Gbit PCIe x8 D2755 SFP+	2x	2 port NIC, Intel 82599 based	S26361-F3629-E202	S26361-F3629-L502
optional 10Gb SFP+ module with LC connector for Fujitsu / Intel based controller				
SFP+ Module MMF 10GbE LC	2x	MMF / SR SFP+ module, up to 400m	S26361-F3986-E3	S26361-F3986-L3
SFP+ Module SMF 10GbE LC	2x	SMF / LR SFP+ module, up to 10km	S26361-F3986-E4	S26361-F3986-L4
Twinax Anschlussplatz Primergy	2x	virtual connector for twinax cables	V:TWX CONNECTOR-PY	
SFP+ active Twinax Cable Fujitsu	2x	customized cable length (best fitting cable length is defined during rack installation at the factory)	S26361-F3989-E600	see table at the botton of this page
SFP+ active Twinax Cable Brocade	2x		S26361-F3873-E500	
SFP+ passive Twinax Cable Cisco	2x		S26361-F4571-E500	
max. 2x SFP+ or Twinax Cable per controller				
10Gb Ethernet controller with SFP+ interface (for SFP+ modules or twinax cables, Emulex)				
PLAN EP OCe14102 2x10Gb LP	2x	2 port NIC with RDMA, Emulex	S26361-F5536-E202	S26361-F5536-L502
PCNA EP OCe14102 2x 10Gb LP	2x	2 port CNA with FCoE & RDMA, Emulex	S26361-F5250-E201	S26361-F5250-L501
PCNA EP OCe14102 2x 10Gb DMF LP	1x	2 port CNA with DMF for PAN, Emulex	S26361-F5250-E210	S26361-F5250-L510
optional 10Gb SFP+ module with LC connector for Emulex controller				
PCNA SFP+ MMF Modul OCe14102	2x	MMF / SR SFP+ module, up to 400m	S26361-F5250-E110	S26361-F5250-E110
Twinax Anschlussplatz Primergy	2x	virtual connector for twinax cables	V:TWX CONNECTOR-PY	
SFP+ active Twinax Cable Fujitsu	2x	customized cable length (best fitting cable length is defined during rack installation at the factory)	S26361-F3989-E600	see table at the botton of this page
SFP+ active Twinax Cable Brocade	2x		S26361-F3873-E500	
SFP+ passive Twinax Cable Cisco	2x		S26361-F4571-E500	
max. 2x SFP+ or Twinax Cable per controller				
max. 2 Controller per system				

special release only; max 1 controller

Liquid cooling is not possible

40Gb Ethernet controller with QSFP+ interface (for QSFP+ modules or twinax cables, Emulex)				
PCNA EP OCe14401 1x 40Gb LP	1x	1x QSFP+ plugs for twinax or modules	S26361-F5539-E201	S26361-F5539-L501
optional 40Gb QSFP+ module with MTO connector for Emulex controller				
SFP+ Module MMF 10GbE LC	1x	MMF / SR SFP+ module, up to 400m	S26361-F5539-E140	S26361-F5539-L140
Twinax Anschlussplatz Primergy	1x	virtual connector for twinax cables	V:TWX CONNECTOR-40	
QSFP+ active Twinax Cable	1x	customized cable length (best fitting cable length is defined during rack installation at the factory)	S26361-F3986-E400	see table at the botton of this page
QSFP+ aktives Twinax Kabel Brocade	1x		S26361-F5317-E40	
rmax. 1x QSFP+ or Twinax Cable per controller				
max. 1 Controller per system				

Network cables for later upgrade

Fujitsu active SFP+ Twinax 10Gb cable	
SFP+ active Twinax Cable Fujitsu 2m	S26361-F3989-L102
SFP+ active Twinax Cable Fujitsu 5m	S26361-F3989-L105
SFP+ active Twinax Cable Fujitsu 10m	S26361-F3989-L110

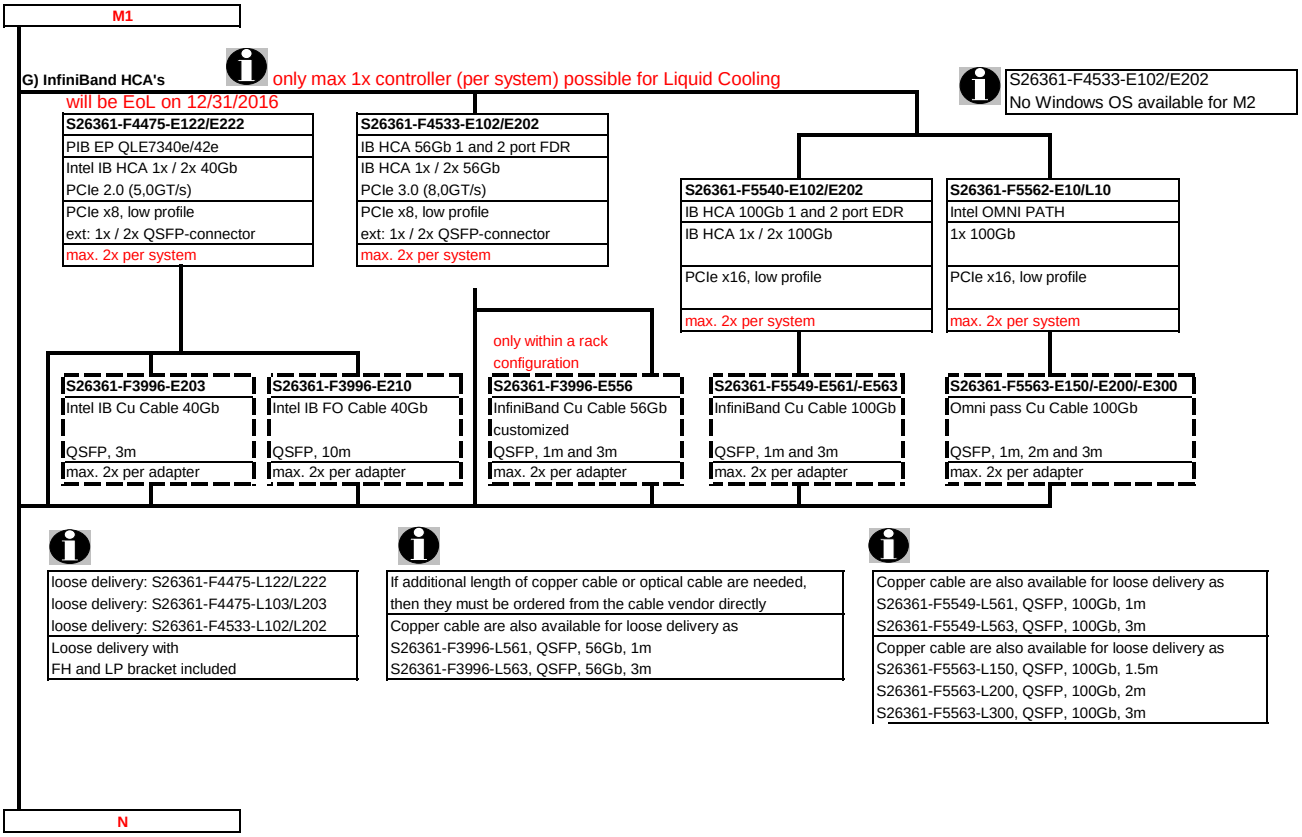
Brocade active SFP+ Twinax 10Gb cable	
SFP+ active Twinax Cable Brocade 1m	S26361-F3873-L501
SFP+ active Twinax Cable Brocade 3m	S26361-F3873-L503
SFP+ active Twinax Cable Brocade 5m	S26361-F3873-L505

Cisco passive SFP+ Twinax 10Gb Ethernet	
SFP+ passive Twinax Cable Cisco 1m	S26361-F4571-L101
SFP+ passive Twinax Cable Cisco 3m	S26361-F4571-L103
SFP+ passive Twinax Cable Cisco 5m	S26361-F4571-L105
SFP+ active Twinax Cable Cisco 7m	S26361-F4571-L107
SFP+ active Twinax Cable Cisco 10m	S26361-F4571-L110

Fujitsu QSFP+ / QSFP+ Twinax 40Gb cable	
QSFP+ passive Twinax Cable Fujitsu 2m	S26361-F3986-L402
QSFP+ passive Twinax Cable Fujitsu 5m	S26361-F3986-L405
QSFP+ active Twinax Cable Fujitsu 10m	S26361-F3986-L410

Brocade active QSFP+ / QSFP+ Twinax 40Gb cable	
QSFP+ active Twinax Cable Brocade 1m	S26361-F5317-L41
QSFP+ active Twinax Cable Brocade 3m	S26361-F5317-L43
QSFP+ active Twinax Cable Brocade 5m	S26361-F5317-L45
40GE Direct Attached QSFP-QSFP,10m,1pack	D:QSFP-QSFP-AOC10L
Brocade active QSFP+ / 4xSFP+ Twinax 40Gb cable	
QSFP+/4xSFP+ Breakout Cable Brocade 1m	S26361-F5317-L401
QSFP+/4xSFP+ Breakout Cable Brocade 3m	S26361-F5317-L403
QSFP+/4xSFP+ Breakout Cable Brocade 5m	S26361-F5317-L405
4x10GE Direct QSFP-4SFP Cable,10m,1-pack	D:QSFP-4SFP-AOC10L

M1


M1
G) InfiniBand HCA's
only max 1x controller (per system) possible for Liquid Cooling
will be EoL on 12/31/2016
S26361-F4533-E102/E202
No Windows OS available for M2
S26361-F4475-E122/E222
PIB EP QLE7340e/42e
Intel IB HCA 1x / 2x 40Gb
PCIe 2.0 (5,0GT/s)
PCIe x8, low profile
ext: 1x / 2x QSFP-connector
max. 2x per system
S26361-F4533-E102/E202
IB HCA 56Gb 1 and 2 port FDR
IB HCA 1x / 2x 56Gb
PCIe 3.0 (8,0GT/s)
PCIe x8, low profile
ext: 1x / 2x QSFP-connector
max. 2x per system
S26361-F5540-E102/E202
IB HCA 100Gb 1 and 2 port EDR
IB HCA 1x / 2x 100Gb
PCIe x16, low profile
max. 2x per system
S26361-F5562-E10/L10
Intel OMNI PATH
1x 100Gb
PCIe x16, low profile
max. 2x per system
only within a rack configuration
S26361-F3996-E203
Intel IB Cu Cable 40Gb
QSFP, 3m
max. 2x per adapter
S26361-F3996-E210
Intel IB FO Cable 40Gb
QSFP, 10m
max. 2x per adapter
S26361-F3996-E556
InfiniBand Cu Cable 56Gb
customized
QSFP, 1m and 3m
max. 2x per adapter
S26361-F5549-E561/-E563
InfiniBand Cu Cable 100Gb
QSFP, 1m and 3m
max. 2x per adapter
S26361-F5563-E150/-E200/-E300
Omni pass Cu Cable 100Gb
QSFP, 1m, 2m and 3m
max. 2x per adapter
loose delivery: S26361-F4475-L122/L222
loose delivery: S26361-F4475-L103/L203
loose delivery: S26361-F4533-L102/L202
Loose delivery with
FH and LP bracket included
If additional length of copper cable or optical cable are needed,
then they must be ordered from the cable vendor directly
Copper cable are also available for loose delivery as
S26361-F3996-L561, QSFP, 56Gb, 1m
S26361-F3996-L563, QSFP, 56Gb, 3m
Copper cable are also available for loose delivery as
S26361-F5549-L561, QSFP, 100Gb, 1m
S26361-F5549-L563, QSFP, 100Gb, 3m
Copper cable are also available for loose delivery as
S26361-F5563-L150, QSFP, 100Gb, 1.5m
S26361-F5563-L200, QSFP, 100Gb, 2m
S26361-F5563-L300, QSFP, 100Gb, 3m
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Section XII System Management Products (RemoteView)

iRMC S4 (integrated Remote Management Controller) onboard server management Controller with dedicated 10/100/1000 Service LAN-port and integrated graphics.
Optional 10/100 Service LAN-port on front panel.
The Service LAN-port can be switched alternatively on standard Gbit LAN port

S26361-F1790-E243
iRMC S4 advanced pack
integrated remote management controller activation key for graphical console redirection and remote media redirection
max. 1x per system

Executing system updates, controlling the hardware setup or running diagnostic tests on components are frequent tasks of IT administrators to ensure a continuous 24x7 server operation. ServerView embedded Lifecycle Management (eLCM) for Fujitsu PRIMERGY servers greatly supports such routine tasks by consolidating and enhancing management functions directly available ("embedded") within the server.

S26361-F1790-E310
embedded Lifecycle Management (eLCM)
Server Online Update OS driver Update Hardware firmware update
Server Offline Update Hardware update via Update Manager Express
PrimeCollect Autonomous creation of Primecollect archives Creation and use of PrimeCollect archives over AIS connect
Custom Image (Jukebox function) Automatic and manual download of CD and DVD Images Automatic and manual start of CD and DVD Images
max. 1x per system

Loose delivery
eLCM Activation Pack (Node Locked License) **BDL:ELCM-PACK**
options contains: **- 16GB micro SD card** **- Paper with TAN for Licensekey**

Section XIII Miscellaneous

Only for M1

S26361-F3776-E101
Advanced Thermal Design
Restricts configuration to make 5-40° possible
Feature is enabled and fixed ex factory
max. 1x per system

Restriction for ATD option with air cooling (M1 node)

CPU	#HDD	#PCIe	
120W	2	1	Special Release

Only for M2

S26361-F3776-E240
Advanced Thermal Design
Restricts configuration to make 5-40° possible
Feature is enabled and fixed ex factory
max. 1x per system

Below components may not be use on M1/M2 Cool-safe ATD
1. CPUs bigger than 120W
2. Xeon Phi, NVIDIA K80 and M60

Advanced Thermal Design
refer to ATD with S26361-F3776-E240

CPU type	Ambient temp	front HDD	PCIe slots	
			Air cooled	Liquid cooled
w/o ATD option				
<= 145W	35°C	6	2	1
160W	30°C	0	2	1
w/ ATD option				
135/145/160W (Liquid cooling only)	40°C	6	-	1
<=120W	40°C	6	2	1

Q

Change Report

Date	Order number	Changes
2018-10-22	Graphics	Add and modify NVIDIA GRID license SKU.
2018-09-05	Graphics	Delete NVIDIA GRID license SKU due to Vender EOL.
2018-03-02	Storage	S26361-F5701-* added
2017-10-19	Storage	S26361-F5523/F5592/F5298-* removed (EOL)
2017-09-05	S26361-F5534-*	removed (EOL)
2017-07-31	S26361-F4024-*	added some licenses
2017-07-24	S26361-F5675-*	added
2017-06-06	Storage	S26361-F5666/F5670-* added, S26361-F5588-E120 removed
2017-04-12	SATA DOM SLC	comment updated
2017-03-29	S26361-F5243-E4/L4	comment changed
2017-03-22	Storage	S26361-F3895-E500 / S26361-F5583-* removed, S26361-F5619-* Endurance updated
2017-03-14	S26361-F3934-E617	comment added
2017-03-08	S26361-F3948-E202/L502	added
2017-02-20	S26361-F5518-E200/E300	NEW dummy nodes added
2017-02-09	S26361-F5243-E4/L4	comment added
2017-02-07	S26361-F5619-*	added
2017-01-18		Modify(Added/Remoced) Graphics tab
2016-12-26	SED	added
2016-12-22	S26361-F5632-*	added
2016-12-19		Change FTS order number from S26361-F2222-E100 to S26361-F4025-E116/L116, and E112/L112
2016-11-23	Fibre Channel	New Fibre Channel added
2016-11-01	S26361-F5621-E64	added
2016-10-17		Modify(Added/Remoced) Graphics tab
2016-10-17	S26361-F3933-E192	Added E5-2699A
2016-10-17		Added remark CX2570 M2 air cooling variant must select two CPU.
2016-10-17		CX25x0 M1 deleted
2016-09-13	S26361-F5600-*	now available
2016-09-13	S26361-F5614/F5617-*	added
2016-08-17		Single CPU config and ATD optition for M2 is released
2016-07-26		Memory page updated / reworked
2016-07-22	S26361-F3935-E616	For Liquid Cooling, S26361-F3935-E616 *, it is handled by special release.
2016-07-21	S26361-F5600/F5608-*	added
2016-06-24	S26361-F5592-E*	removed "as soon as available"
2016-06-02	S26361-F5580-E202/L502	PFC EP QLE2692 2x 16G released
2016-06-02	S26361-F5588-E*	Enterprise Solid State Disk, 3DWPD released
2016-06-02	S26361-F3933-E191/E131	E5-2697A/2630L v4 released
2016-06-02	S26361-K1568-V210	CX2550 M2 Liquid Cooling released
2016-05-19	S26361-F5525-E*	2.5" SATA Read-Intensive SSDs removed.
2016-05-19	S26361-F3821-E*	2.5" SATA Mainstream SSDs removed.
2016-05-19	S26361-F3895-E250	2.5" 250GB SATA HDD removed.
2016-05-09	S26361-F4475-E103/E203	Added comment "for M1 only"
2016-04-05	S26361-F2222-E964	as soon as available
2016-04-01		ATD option for CX25x0 M2 will be available in 04/2016.
2016-04-01		First Release - configurator with CX25y0 M2
2016-06-02	S26361-F5243-E4/L4	added