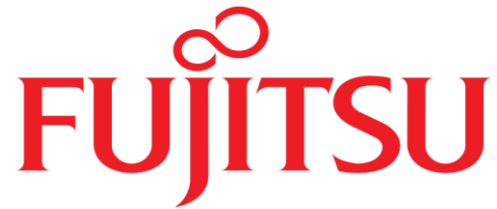


PRIMERGY CX400 M4
Multi Node Server



Chapter	Folder	Content
	Cover	List of content, Instructions for usage of this configurator, abbreviations
	Description	System Description for easier understanding
1	Base	describes base unit of CX400 M4
2		describes rack mount kits and services
3		Power supply units, power cables, country specific opt.
4	CPU	Order code and Infos of E5-26xxv5 series processors
5	RAM	DDR4 System memory (RAM) and memory modes
6	GFX	Graphics-, Grid-cards, GPU and Xeon Co processors and other graphics options
7	HD_cage	Drive cage and PCIe riser options
8	RAID	SAS / RAID Controller and components
9	ODD	optical disk drives (DVD, DVD-rw, Blu ray)
10	Backup	LTO drives & RDX drive
11	HD_SSD	Storage drives - PCIe SSD - SAS/SATA SSD & HDD
12	LAN_FC_IB	LAN Components
13		Fibre Channel Controller
14		Infiniband Controller
15	USB_devices	Keyboards, Mice, USB devices
16	others	System Management, ATD, RS232 port, TPM module

Instructions

This document contains basic product and configuration information supporting you in more complicated configurations.

In any case we recommend to use the PC-/SystemArchitect to make sure, that you configure a valid system.

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

Please follow this document step by step from the top to the bottom.

Chapter xx - description of chapter

Text fields with grey color offer extra information for related topics (e.g prerequisites, technical back ground, configuration rules, limitations, ...)

S26361-F4610-E2
S26361-F4610-L3
PLAN 2x1Gb Ethern. Controller
i350-T2 chip (based on Intel Powerville) offers 2x1Gb RJ45 connectors
PCIe Gen2 x4 full height card
max. 6x per system

<-- order code E-part (bold) --

<-- order code L-part (bold)

<-- "name" of this part

<--description of this part, in some cases as well description of content

<--requires a free PCIe slot --> means total amount of PCIe slots reduced

<--indicates how often this part can be configured in the related Server

For further information see:

http://ts.fujitsu.com/products/standard_servers/index.html

(internet)

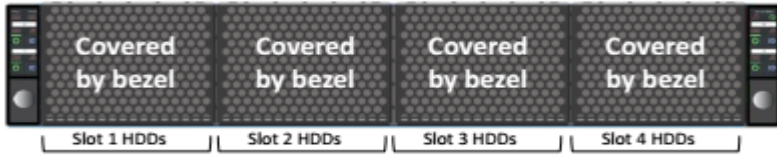
https://partners.ts.fujitsu.com/com/order-supply/configurators/primergy_config/Pages/default.aspx

(extranet)

Fujitsu is providing the content of this document with very high accuracy. In case you identify a mistake, we would kindly encourage you to inform us. We kindly ask for understanding, that errors still may occur and that Fujitsu may change this document without notice.

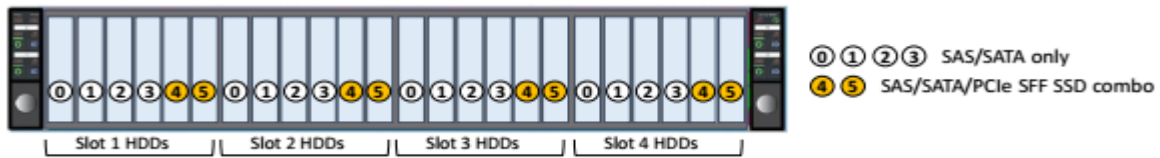
CX400 M4 Front view

HDD less configuration for Node CX2550/CX2560/CX2570 M4



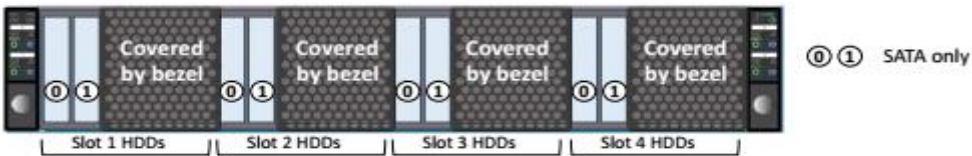
Front HDD bay option enabled configuration for Node CX2560 M4

Each CX2560 M4 use up to 6 drives (respective Slot 1-4)



Front HDD bay option enabled configuration for Node CX2550 M4

Each CX2550 M4 use up to 2 drives (respective Slot 1-4)



Front HDD bay option enabled configuration for Node CX2570 M4

Each CX2570 M4 use up to 6 drives (respective Slot 1, Slot 3)



CX400 M4 Rear View

Node CX2550 / CX2560 M4

PSU	Slot 4	Slot 2
PSU	Slot 3	Slot 1

CX2570 M4

PSU	(GPU tray)	(GPU tray)
PSU	Slot 3	Slot 1

No mixture with different type of server nodes are not supported.

Installing condition* by configuration of Power Supply Unit

*PSU redundancy (1+1) support depends on the configuration of server, please check the total power consumption in SystemArchtect for making PSU redundant configuration

Power Supply Unit	Number of PSU	Input Voltage	CX2550 M4		CX2560 M4
			Air Cooling	Liquid Cooling	
1600W PSU	2	AC 100V	Up to two nodes with below 150W CPU	Up to two nodes with below 150W CPU	Up to two nodes with below 130W CPU
	2	AC 200V	No configuration limitation	Up to 165W CPU	Up to 130W CPU
2400W PSU	1	AC 200V	Up to three nodes with below 150W CPU	Up to three nodes with below 150W CPU	Up to three nodes with below 130W CPU
	2	AC 200V	No configuration limitation	No configuration limitation	No configuration limitation

Power Supply Unit	Number of PSU	Input Voltage	CX2570 M4	
			PCIe card / Air Cooling	SXM2 / Liquid Cooling
1600W PSU	2	AC 100V	Up to 1 node	No support
	2	AC 200V	No configuration limitation	Up to 1 node
2400W PSU	1	AC 200V	Up to 1 node	No support
	2	AC 200V	No configuration limitation	No configuration limitation

** No mixture of CX2550 M4 Air Cooling / CX2550 M4 Liquid Cooling / CX2560 M4 /CX2570 M4 Air Cooling / CX2570 M4 Liquid Cooling in one chassis must not be allowed.

Chapter 1 - Base unit

Start

Power supply units & cooling

The PRIMERGY CX400 M4 offers bays for 1x or 2x direct attached hot plug (opt. redundant) power supply units of 1,600W, 2400W with up to 94% efficiency. The PRIMERGY CX400 M4 supports high performance hot plug fans (N+1 redundant).

Server Management

iRMC S5 (integrated Remote Management Controller) on-board with dedicated (or shared) 10/100/1000 Service LAN-port and integrated graphics controller. With the integrated onboard indicators and controls you can easily highlight failed components via LEDs. The LEDs can be displayed during service even without mains connection by simply pressing the "indicate CSS" button.

Platform

* ServerView Suite Software incl. ServerStart, ServerBooks, Management Software and Updates

item	CX2560 M4	CX2550 M4	CX2570 M4	
Use Case	Allround (cloud)	HPC	HPC / VDI	
Form Factor (Height x Width)	Single x Half (4N)	Single x Half (4N)	Double x Half (2N)	
# of CPU/Node	2	2	2	
# of UPI	3	3	3	
Liquid Cooling	-	Yes (option)	Yes (option)	
CPU (W)	150W	165W (205W: liquid cooling)	150W (205W: liquid cooling)	
# of DIMM	16	16	16	
# of 2.5"/3.5" HDDs (/ chassis)	24/0	8/0	12/0	
# of 2.5" HDDs (/ Node)	6/6/6/6	2/2/2/2	6/6	
# of HDD / Type (included)	6x SAS/SATA (2x PCIe4)	2x SATA	6x SAS/SATA (2x PCIe4)	
# of 3.5" HDDs (/ Node)	-	-	-	
PCIe slot (type)	2 (Gen3 x16, 25W)	2 (Gen3 x16, 25W)	1 (Gen3 x16, 25W)	
GPU slot	-	-	2x (Gen3 x16)	
TPM slot / MicroSD for BMC	1 / 1	1/1	1 / 1	
Internal boot device	USB mirrored device	1	1	
	# of M.2 slot	2	2	
Form Factor	2242	2242	2242	
	M.2 I/F type	SAS / PCIe(Gen3)x2	SAS/PCIe(Gen3)x2	SAS / PCIe(Gen3)x2
BMC (IPMI) LAN	1x 1000 Base-T	1x 1000 Base-T	1x 1000 Base-T	
Onboard NIC	1x 1000 Base-T	1x 1000 Base-T	1x 1000 Base-T	
1x OCP Mezz slot	PHY (selectable NIC option)	4x 1000Base-T 2x 10G Base-T 2x 10G SFP+ 4x 10G SFP+	4x 1000Base-T 2x 10G Base-T 2x 10G SFP+ 4x 10G SFP+	
	PCIe	PCIe_Gen3 x16	PCIe_Gen3 x16	PCIe_Gen3 x16

Note:Node popuration rules

CX25y0M5 node popuration rules is defined by TPS(Technical Product Specification).

CX25y0M5 must be installed by bellow order.

Chassis cofniguration				
PSU2	4 2			
PSU1	3 1			
(Rear View)				
Server Nodes				
	Slot 1	Slot 2	Slot 3	Slot 4
#CX2550				
#CX2560				
1	1			
2	1		2	
3	1	3	2	
4	1	3	2	4

Chassis cofniguration				
PSU2	4 2			
PSU1	3 1			
(Rear View)				
Server Nodes				
	Slot 1	Slot 2	Slot 3	Slot 4
#CX2570				
1	1	1		
2	1	1	2	2

Empty Slots must be filled with Dummy Nodes

Rack version for 19" racks with 2 height units	
No PSU included in base unit	
Basic unit is without node	
Basic units for CX2550/CX2560/CX2570 M4 LC	
0-24x 2.5" HDD bays	
For EMEA market	S26361-K1614-V100
For APAC/US market	S26361-K1614-V300
Up tp 4 x CX2550/CX2560 M4, Up to 2x CX2570 M4 LC	
Basic units for CX2570 M4 AC	
0-24x 2.5" HDD bays	S26361-K1614-V200
Up to 2x CX2570 M4 AC	



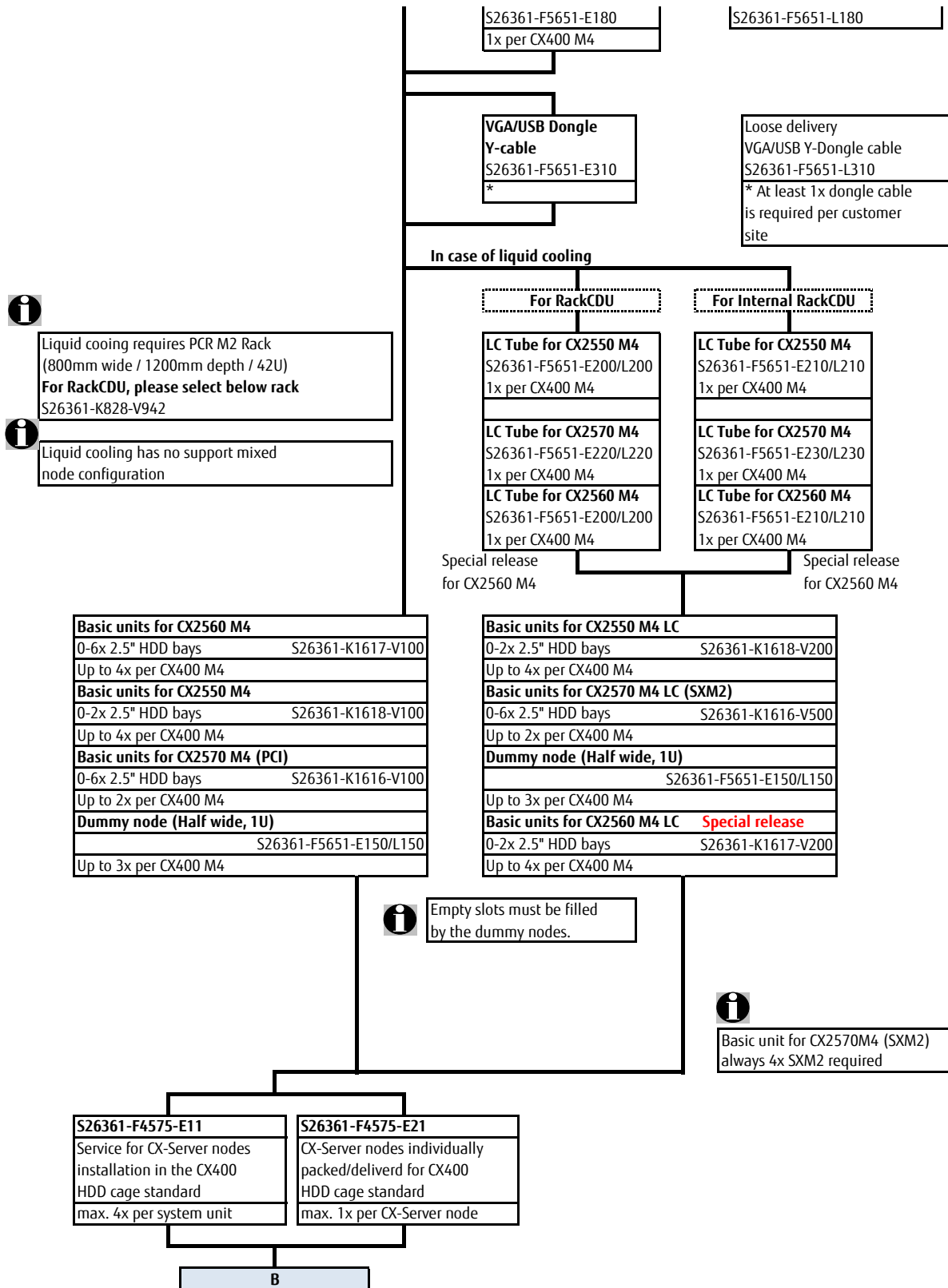
Front HDD cage kit must be ordered under node config
Please refer to "HD_cage" sheet

In case of front HDD is used

Bridge board for HDD configuration

Loose delivery
Bridge board for HDD

In case of HDD less



Chapter 2 - Rack architecture

PRIMECENTER Rack

as soon as available

Rack Architecture		Remark			
Rack Cable Arm 2U	1x	Cable mgmt. arm for 2U	S26361-F5651-E100	S26361-F5651-L100	Required in case of hotplug FAN operaiton

Chapter 3 - Power supply unit, power cable, country specific options

S26113-F617-E50 S26113-F617-L50 1600W platinum power supply unit 1600W PSU module platinum 1st or 2nd PSU for redundancy. 94% efficiency 100-240V, 50-60Hz occupies hot plug PSU slot min. 2 / max. 2x per system	S26113-F620-E30 S26113-F620-L30 2400W platinum power supply unit 2400W PSU module platinum 1st or 2nd PSU for redundancy. 94% efficiency 100-240V, 50-60Hz occupies hot plug PSU slot min. 1 / max. 2x per system
---	---

Please refer to "Installing condition by configuration of Power Supply Unit on "Description" page

S26361-F5651-E190 S26361-F5651-L190 Dummy module instead PSU Dummy module for closing the 2nd PSU hole, in case only 1 PSU is equipped closes hot plug PSU slot max. 1x per system

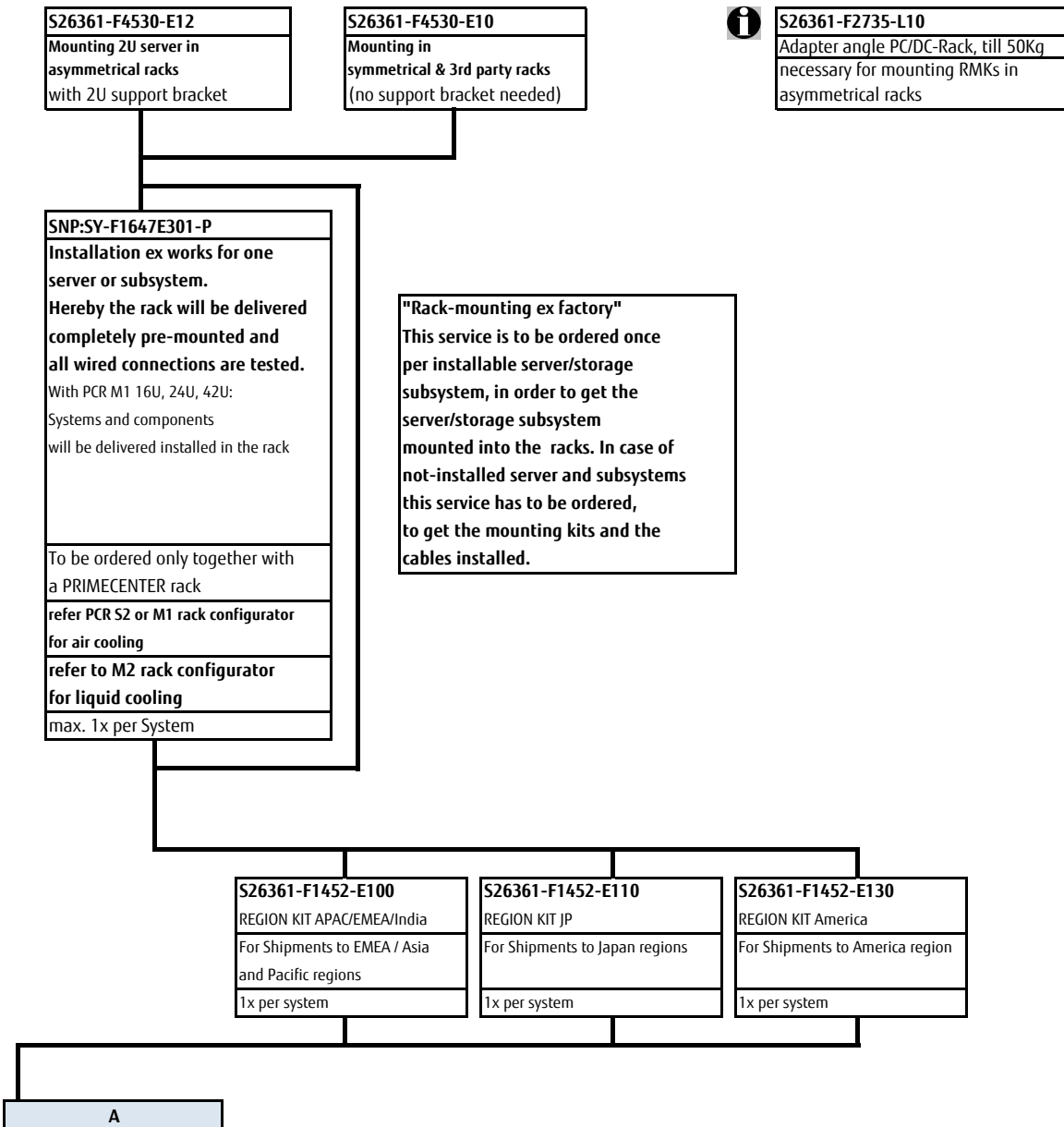
i 2.400W (S26113-F620-E30) must use Power Cord 16A (S26361-F3151-E301)

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

for CX400 M4 within rack
please choose only 1 of this 2 cables

S26361-F3151-E351 Power Cord 10A IEC 320 C19 -> C14 default within rack 1x per PSU	S26361-F3151-E301 Power Cord 16A IEC 320 C19 -> C20 for 100V-115V only*) 1x per PSU	S26361-F3151-E500 Power Cord IEC320 C19 -> US NEMA L6-20p without rack only 1x per PSU	T26139-Y3850-E10 No Power Cord without rack only 1x per PSU
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i*) in System architect please change the default 16A connection to a 10A connection for all PSU



Chapter 3 - CPU (CX2560 M4)

B

There are 2 processor sockets available. Please configure 1 or 2 Processors.
 >> All processors have to be the same type.
 >> With one processor LOM, iRMC and 8x DIMM slots are available
 >> With two processors all 16x DIMM slots are available.
 >> If 128GB memory modules are required CPU "M" SKU is necessary
 >> To configure 2nd CPU an additional cooler kit is required.
 >> Empty CPU slot have to be filled up with a CPU Dummy! * HT = Hyper Threading

Restriction for CPUs above 150W TDP:
 Ambient temperature requirement for CPUs between 150W and 165W TDP is 30°C
 CPUs above 165W TDP require a liquid cooled base unit

Liquid cooling base unit requires always 2 CPUs

Base Unit

Standard (S26361-K1617-V100)
 Special release (Liquid Cooled) (S26361-K1617-V200)

Xeon Bronze 3100 - Basic (Shelf 1)					
64-bit Intel Xeon processor supporting DDR4 @ 2133MHz & QPI Bus @ 9.6 GT/s					
Xeon Bronze 3104 6C nHT 1.7GHz 85W	S26361-F4051-E104	S26361-F4051-L104	X	X	
Xeon Bronze 3106 8C nHT 1.7GHz 85W	S26361-F4051-E106	S26361-F4051-L106	X	X	
Xeon Silver 4100 - Standard (Shelf 2)					
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2400 MHz & QPI Bus 9.6 GT/s					
Xeon Silver 4108 8C 1.8GHz 85W	S26361-F4051-E108	S26361-F4051-L108	X	X	
Xeon Silver 4110 8C 2.1GHz 85W	S26361-F4051-E110	S26361-F4051-L110	X	X	
Xeon Silver 4114 10C 2.2GHz 85W	S26361-F4051-E114	S26361-F4051-L114	X	X	
Xeon Silver 4116 12C 2.1GHz 85W	S26361-F4051-E116	S26361-F4051-L116	X	X	
Xeon Silver 4100 - Frequency Optimized (Shelf 2)					
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2400 MHz & QPI Bus @ 9.6 GT/s					
Xeon Silver 4112 4C 2.6GHz 85W	S26361-F4051-E212	S26361-F4051-L212	X	X	
Xeon Gold 5100 - Advanced (Shelf 3)					
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2400 MHz & QPI Bus @ 10.4 GT/s					
Xeon Gold 5115 10C 2.4GHz 85W	S26361-F4051-E115	S26361-F4051-L115	X	X	
Xeon Gold 5118 12C 2.3GHz 105W	S26361-F4051-E118	S26361-F4051-L118	X	X	
Xeon Gold 5120 14C 2.2GHz 105W	S26361-F4051-E120	S26361-F4051-L120	X	X	
Xeon Gold 5100 - Frequency Optimized (Shelf 3)					
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s					
Xeon Gold 5122 4C 3.6GHz 105W	S26361-F4051-E222	S26361-F4051-L222	X	X	
Xeon Gold 6100 - Advanced (Shelf 4)					
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s					
Xeon Gold 6130 16C 2.1GHz 125W	S26361-F4051-E130	S26361-F4051-L130	X	X	
Xeon Gold 6140 18C 2.3GHz 140W	S26361-F4051-E140	S26361-F4051-L140	X	X	
Xeon Gold 6138 20C 2.0GHz 125W	S26361-F4051-E138	S26361-F4051-L138	X	X	
Xeon Gold 6148 20C 2.4GHz 150W	S26361-F4051-E148	S26361-F4051-L148	X	X	
Xeon Gold 6152 22C 2.1GHz 140W	S26361-F4051-E152	S26361-F4051-L152	X	X	
Xeon Gold 6100 - Frequency Optimized (Shelf 4)					
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s					
Xeon Gold 6128 6C 3.4GHz 115W	S26361-F4051-E228	S26361-F4051-L228	X	X	
Xeon Gold 6134 8C 3.2GHz 130W	S26361-F4051-E234	S26361-F4051-L234	X	X	
Xeon Gold 6126 12C 2.6GHz 125W	S26361-F4051-E226	S26361-F4051-L226	X	X	
Xeon Gold 6136 12C 3.0GHz 150W	S26361-F4051-E236	S26361-F4051-L236	X	X	
Xeon Gold 6132 14C 2.6GHz 140W	S26361-F4051-E232	S26361-F4051-L232	X	X	
Xeon Gold 6142 16C 2.6GHz 150W	S26361-F4051-E242	S26361-F4051-L242	X	X	
Xeon Platinum 8100 Advanced (Shelf 4)					
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s					
Xeon Platinum 8153 16C 2.0GHz 125W	S26361-F4051-E153	S26361-F4051-L153	X	X	
Xeon Platinum 8160 24C 2.1GHz 150W	S26361-F4051-E160	S26361-F4051-L160	X	X	
Xeon Platinum 8164 26C 2.0GHz 150W	S26361-F4051-E164	S26361-F4051-L164	X	X	
Xeon Gold 6100M - Advanced (Shelf 4; 1.5TB p. Socket)					
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s					
Xeon Gold 6134M 8C 3.2GHz 130W	S26361-F4051-E334	S26361-F4051-L334	X	X	
Xeon Gold 6140M 18C 2.3GHz 140W	S26361-F4051-E340	S26361-F4051-L340	X	X	
Xeon Gold 6142M 16C 2.6GHz 150W	S26361-F4051-E342	S26361-F4051-L342	X	X	
Xeon Platinum 8100M - Advanced (1.5TB p. Socket)					
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s					
Xeon Platinum 8160M 24C 2.1GHz 150W	S26361-F4051-E360	S26361-F4051-L360	X	X	

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Xeon Silver 4100 - Embedded (Shelf 2)			
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2400 MHz & QPI Bus @ 9.6 GT/s			
Xeon Silver 4114T 10C 2.2GHz 85W (only Special Release)	S26361-F4051-E414	S26361-F4051-L414	X X
Xeon Gold 5100 - Embedded (Shelf 3)			
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2400 MHz & QPI Bus @ 10.4 GT/s			
Xeon Gold 5119T 14C 1.9GHz 85W	S26361-F4051-E419	S26361-F4051-L419	X X
Cooler Kit (see comment above; for upgrade please use according kit to the selected CPU)			
Cooling Kit 2nd CPU	S26361-F3849-E100		X
Cooling Kit for 2nd CPU (upgrade option for Standard BU)		S26361-F4051-L950	X

C

Chapter 3 - CPU (CX2550 M4)

B

There are 2 processor sockets available. Please configure 1 or 2 Processors.
 >> All processors have to be the same type.
 >> Exception: If only one CPU "F" SKU is required, second CPU can be without "F" extension
 >> With one processor LOM, iRMC and 8x DIMM slots are available
 >> With two processors all 16x DIMM slots are available.
 >> If 128GB memory modules are required CPU "M" SKU is necessary
 >> To configure 2nd CPU an additional cooler kit is required.
 >> Empty CPU slot have to be filled up with a CPU Dummy!

* HT = Hyper Threading

Restriction for CPUs above 150W TDP:
 Ambient temperature requirement for CPUs between 150W and 165W TDP is 30°C
 CPUs above 165W TDP require a liquid cooled base unit

Liquid cooling base unit requires always 2 CPUs

Base Unit
 Standard (S26361-K1618-V100)
 Liquid Cooled (S26361-K1618-V200)

Xeon Gold 5100 - Advanced (Shelf 3)			
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2400 MHz & QPI Bus @ 10.4 GT/s			
Xeon Gold 5115 10C 2.4GHz 85W	S26361-F4051-E115	S26361-F4051-L115	X X
Xeon Gold 5118 12C 2.3GHz 105W	S26361-F4051-E118	S26361-F4051-L118	X X
Xeon Gold 5120 14C 2.2GHz 105W	S26361-F4051-E120	S26361-F4051-L120	X X
Xeon Gold 6100 - Advanced (Shelf 4)			
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s			
Xeon Gold 6130 16C 2.1GHz 125W	S26361-F4051-E130	S26361-F4051-L130	X X
Xeon Gold 6140 18C 2.3GHz 140W	S26361-F4051-E140	S26361-F4051-L140	X X
Xeon Gold 6138 20C 2.0GHz 125W	S26361-F4051-E138	S26361-F4051-L138	X X
Xeon Gold 6148 20C 2.4GHz 150W	S26361-F4051-E148	S26361-F4051-L148	X X
Xeon Gold 6152 22C 2.1GHz 140W	S26361-F4051-E152	S26361-F4051-L152	X X
Xeon Gold 6100 - Frequency Optimized (Shelf 4)			
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s			
Xeon Gold 6128 6C 3.4GHz 115W	S26361-F4051-E228	S26361-F4051-L228	X X
Xeon Gold 6134 8C 3.2GHz 130W	S26361-F4051-E234	S26361-F4051-L234	X X
Xeon Gold 6126 12C 2.6GHz 125W	S26361-F4051-E226	S26361-F4051-L226	X X
Xeon Gold 6136 12C 3.0GHz 150W	S26361-F4051-E236	S26361-F4051-L236	X X
Xeon Gold 6132 14C 2.6GHz 140W	S26361-F4051-E232	S26361-F4051-L232	X X
Xeon Gold 6142 16C 2.6GHz 150W	S26361-F4051-E242	S26361-F4051-L242	X X
Xeon Gold 6144 8C 3.5GHz 150W	S26361-F4051-E244	S26361-F4051-L244	X
Xeon Gold 6146 12C 3.2GHz 165W	S26361-F4051-E246	S26361-F4051-L246	X X
Xeon Gold 6150 18C 2.7GHz 165W	S26361-F4051-E250	S26361-F4051-L250	X X
Xeon Gold 6154 18C 3.0GHz 200W	S26361-F4051-E254	S26361-F4051-L254	X
Xeon Platinum 8100 Advanced (Shelf 4)			
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s			
Xeon Platinum 8153 16C 2.0GHz 125W	S26361-F4051-E153	S26361-F4051-L153	X X
Xeon Platinum 8160 24C 2.1GHz 150W	S26361-F4051-E160	S26361-F4051-L160	X X
Xeon Platinum 8164 26C 2.0GHz 150W	S26361-F4051-E164	S26361-F4051-L164	X X
Xeon Platinum 8170 26C 2.1GHz 165W	S26361-F4051-E170	S26361-F4051-L170	X X
Xeon Platinum 8176 28C 2.1GHz 165W	S26361-F4051-E176	S26361-F4051-L176	X X
Xeon Platinum 8180 28C 2.5GHz 205W	S26361-F4051-E180	S26361-F4051-L180	X
Xeon Platinum 8100 - Frequency Optimized			
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s			
Xeon Platinum 8168 24C 2.7GHz 205W	S26361-F4051-E268	S26361-F4051-L268	X
Xeon Gold 6100M - Advanced (Shelf 4; 1.5TB p. Socket)			
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s			
Xeon Gold 6134M 8C 3.2GHz 130W	S26361-F4051-E334	S26361-F4051-L334	X X
Xeon Gold 6140M 18C 2.3GHz 140W	S26361-F4051-E340	S26361-F4051-L340	X X
Xeon Gold 6142M 16C 2.6GHz 150W	S26361-F4051-E342	S26361-F4051-L342	X X

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Xeon Platinum 8100M - Advanced (1.5TB p. Socket)				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s				
Xeon Platinum 8160M 24C 2.1GHz 150W	S26361-F4051-E360	S26361-F4051-L360	X	X
Xeon Platinum 8170M 26C 2.1GHz 165W	S26361-F4051-E370	S26361-F4051-L370	X	X
Xeon Platinum 8176M 28C 2.1GHz 165W	S26361-F4051-E376	S26361-F4051-L376	X	X
Xeon Platinum 8180M 28C 2.5GHz 205W	S26361-F4051-E380	S26361-F4051-L380		X



Remark: Only one OMNI Path / Storm Lake CPU can be installed. If second CPU is required please use same type without "F" at the end of the SKU number

Cooler Kit (see comment above; for upgrade please use according kit to the selected CPU)				
Cooling Kit 2nd CPU	S26361-F3849-E100		X	
Cooling Kit for 2nd CPU (upgrade option for Standard BU)		S26361-F4051-L950	X	

C

Chapter 3 - CPU (CX2570 M4)

B

There are 2 processor sockets available. Please configure 1 or 2 Processors.
 >> All processors have to be the same type.
 >> With one processor LOM, iRMC and 8x DIMM slots are available
 >> With two processors all 16x DIMM slots are available.
 >> If 128GB memory modules are required CPU "M" SKU is necessary
 >> To configure 2nd CPU an additional cooler kit is required.
 >> Empty CPU slot have to be filled up with a CPU Dummy! * HT = Hyper Threading

Restriction for CPUs above 150W TDP:
Ambient temperature requirement for CPUs between 150W and 165W TDP is 30°C
CPUs above 165W TDP require a liquid cooled base unit

Liquid cooling base unit requires always 2 CPUs

Base Unit

Standard (S26361-K1616-V100)
 Liquid Cooled (S26361-K1616-V500)

Xeon Bronze 3100 - Basic (Shelf 1)			
64-bit Intel Xeon processor supporting DDR4 @ 2133MHz & QPI Bus @ 9.6 GT/s			
Xeon Bronze 3104 6C nHT 1.7GHz 85W	S26361-F4051-E104	S26361-F4051-L104	X X
Xeon Bronze 3106 8C nHT 1.7GHz 85W	S26361-F4051-E106	S26361-F4051-L106	X X
Xeon Silver 4100 - Standard (Shelf 2)			
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2400 MHz & QPI Bus 9.6 GT/s			
Xeon Silver 4108 8C 1.8GHz 85W	S26361-F4051-E108	S26361-F4051-L108	X X
Xeon Silver 4110 8C 2.1GHz 85W	S26361-F4051-E110	S26361-F4051-L110	X X
Xeon Silver 4114 10C 2.2GHz 85W	S26361-F4051-E114	S26361-F4051-L114	X X
Xeon Silver 4116 12C 2.1GHz 85W	S26361-F4051-E116	S26361-F4051-L116	X X
Xeon Silver 4100 - Frequency Optimized (Shelf 2)			
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2400 MHz & QPI Bus @ 9.6 GT/s			
Xeon Silver 4112 4C 2.6GHz 85W	S26361-F4051-E212	S26361-F4051-L212	X X
Xeon Gold 5100 - Advanced (Shelf 3)			
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2400 MHz & QPI Bus @ 10.4 GT/s			
Xeon Gold 5115 10C 2.4GHz 85W	S26361-F4051-E115	S26361-F4051-L115	X X
Xeon Gold 5118 12C 2.3GHz 105W	S26361-F4051-E118	S26361-F4051-L118	X X
Xeon Gold 5120 14C 2.2GHz 105W	S26361-F4051-E120	S26361-F4051-L120	X X
Xeon Gold 5100 - Frequency Optimized (Shelf 3)			
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s			
Xeon Gold 5122 4C 3.6GHz 105W	S26361-F4051-E222	S26361-F4051-L222	X X
Xeon Gold 6100 - Advanced (Shelf 4)			
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s			
Xeon Gold 6130 16C 2.1GHz 125W	S26361-F4051-E130	S26361-F4051-L130	X X
Xeon Gold 6140 18C 2.3GHz 140W	S26361-F4051-E140	S26361-F4051-L140	X X
Xeon Gold 6138 20C 2.0GHz 125W	S26361-F4051-E138	S26361-F4051-L138	X X
Xeon Gold 6148 20C 2.4GHz 150W	S26361-F4051-E148	S26361-F4051-L148	X X
Xeon Gold 6152 22C 1.1GHz 140W	S26361-F4051-E152	S26361-F4051-L152	X X
Xeon Gold 6100 - Frequency Optimized (Shelf 4)			
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s			
Xeon Gold 6128 6C 3.4GHz 115W	S26361-F4051-E228	S26361-F4051-L228	X X
Xeon Gold 6134 8C 3.2GHz 130W	S26361-F4051-E234	S26361-F4051-L234	X X
Xeon Gold 6126 12C 2.6GHz 125W	S26361-F4051-E226	S26361-F4051-L226	X X
Xeon Gold 6136 12C 3.0GHz 150W	S26361-F4051-E236	S26361-F4051-L236	X X
Xeon Gold 6132 14C 2.6GHz 140W	S26361-F4051-E232	S26361-F4051-L232	X X
Xeon Gold 6142 16C 2.6GHz 150W	S26361-F4051-E242	S26361-F4051-L242	X X
Xeon Gold 6144 8C 3.5GHz 150W	S26361-F4051-E244	S26361-F4051-L244	X
Xeon Gold 6146 12C 3.2GHz 165W	S26361-F4051-E246	S26361-F4051-L246	X
Xeon Gold 6150 18C 2.7GHz 165W	S26361-F4051-E250	S26361-F4051-L250	X
Xeon Gold 6154 18C 3.0GHz 200W	S26361-F4051-E254	S26361-F4051-L254	X
Xeon Platinum 8100 Advanced (Shelf 4)			
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s			
Xeon Platinum 8153 16C 2.0GHz 125W	S26361-F4051-E153	S26361-F4051-L153	X X
Xeon Platinum 8160 24C 2.1GHz 150W	S26361-F4051-E160	S26361-F4051-L160	X X
Xeon Platinum 8164 26C 2.0GHz 150W	S26361-F4051-E164	S26361-F4051-L164	X X
Xeon Platinum 8170 26C 2.1GHz 165W	S26361-F4051-E170	S26361-F4051-L170	X
Xeon Platinum 8176 28C 2.1GHz 165W	S26361-F4051-E176	S26361-F4051-L176	X
Xeon Platinum 8180 28C 2.5GHz 205W	S26361-F4051-E180	S26361-F4051-L180	X
Xeon Platinum 8100 - Frequency Optimized			
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s			
Xeon Platinum 8168 24C 2.7GHz 205W	S26361-F4051-E268	S26361-F4051-L268	X
Xeon Gold 6100M - Advanced (Shelf 4; 1.5TB p. Socket)			
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s			
Xeon Gold 6134M 8C 3.2GHz 130W	S26361-F4051-E334	S26361-F4051-L334	X X
Xeon Gold 6140M 18C 2.3GHz 140W	S26361-F4051-E340	S26361-F4051-L340	X X
Xeon Gold 6142M 16C 2.6GHz 150W	S26361-F4051-E342	S26361-F4051-L342	X X

B1

B1

Xeon Platinum 8100M - Advanced (1.5TB p. Socket)			
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s			
Xeon Platinum 8160M 24C 2.1GHz 150W	S26361-F4051-E360	S26361-F4051-L360	X X
Xeon Platinum 8170M 26C 2.1GHz 165W	S26361-F4051-E370	S26361-F4051-L370	X X
Xeon Platinum 8176M 28C 2.1GHz 165W	S26361-F4051-E376	S26361-F4051-L376	X X
Xeon Platinum 8180M 28C 2.5GHz 205W	S26361-F4051-E380	S26361-F4051-L380	X X
Xeon Silver 4100 - Embedded (Shelf 2)			
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2400 MHz & QPI Bus @ 9.6 GT/s			
Xeon Silver 4114T 10C 2.2GHz 85W (only Special Release)	S26361-F4051-E414	S26361-F4051-L414	X X
Xeon Gold 5100 - Embedded (Shelf 3)			
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2400 MHz & QPI Bus @ 10.4 GT/s			
Xeon Gold 5119T 14C 1.9GHz 85W	S26361-F4051-E419	S26361-F4051-L419	X X
Cooler Kit (see comment above; for upgrade please use according kit to the selected CPU)			
Cooling Kit 2nd CPU	S26361-F3849-E100		X
Cooling Kit for 2nd CPU (upgrade option for Standard BU)		S26361-F4051-L950	X

C

Chapter 4 - DDR4 System memory

C

Node CX2550 / CX2560 / CX2570 M4
 16x DIMM configuraiton (Mix configuration for 1DPC / 2DPC)

There are 2 different kinds of DDR4 Memory Modules available: RDIMM and RDIMM 3DS (also known as TSV)
 Mix of RDIMM and RDIMM 3DS is under investigation.

The memory speed is independent from the configuration (1DPC or 2DPC) but restricted by the CPU SKU (max. 2.666 MT/s).
 DDR4 memory is operated at 1.2V

Max memory capacity is 768GB/CPU. If >768GB/CPU is required, please take 6100M or 8100M CPU SKU

Preview on NVDIMM support in 2018 (not POR for release in 2017)
 Up to 12 NVDIMMs are supported per System (6 per CPU)

This leads to the following maximum memory capacity per System:
 7.680 GB DDR4 with 12x 512GB NVDIMM (6.144GB) + 12x 128GB RDIMM 3DS (1.536GB)



CX2550 M4/CX2550 M4 LC does not support Rank Sparing Mode / Mirrored Channel Mode

S26361-F3694-E10	Independent Mode Installation
Independent Channel Mode allows all channels to be populated in any order. No specific Memory RAS features are defined	
Requires minimum 1 memory Module per CPU	
S26361-F3694-E1	Rank Sparing Mode Installation
BIOS Setup factory preinstalled to this mode. One Rank is spare of other ranks on the same channel. Spare Rank is not shown in System Memory.	
For effective capacity within a channel, please have a look below.	
Requires minimum 2x 1R/2R or 1x 4R/8R modules per CPU	
S26361-F3694-E2	Performance Mode Installation
BIOS Setup factory preinstalled for maximum Performance, six identical memory modules will be equipped in one memory bank to achieve highest memory performance. All six modules are active and full capacity can be used.	
Multiple of 6 identical modules to be configured per CPU	
S26361-F3694-E3	Mirrored Channel Mode Installation
BIOS Setup factory preinstalled to this mode. Six identical memory modules are always equipped in one memory bank to use the Mirrored channel Mode. Only three modules contain active data, the remain three modules contain mirrored data.	
Multiple of 6 identical modules to be configured per CPU	



Resulting memory capacity / Rank Sparing Mode, 1 Channel populated										
	RDIMM						LRDIMM			
	16GB	1R	16GB	2R	32GB	2R	64GB	4R	128GB	8R
1DPC	8GB		16GB		48GB		112GB			
2DPC	16GB		24GB		48GB		112GB		240GB	

DDR4 rg x8 2666			
16GB (1x16GB) 2Rx8 DDR4-2666 R ECC	S26361-F4026-E516	S26361-F4026-L516	
DDR4 rg x4 2666			
8GB (1x8GB) 1Rx4 DDR4-2666 R ECC	S26361-F4026-E608	S26361-F4026-L608	
16GB (1x16GB) 1Rx4 DDR4-2666 R ECC	S26361-F4026-E616	S26361-F4026-L616	
32GB (1x32GB) 2Rx4 DDR4-2666 R ECC	S26361-F4026-E632	S26361-F4026-L632	
DDR4 rg 2666 3DS			
64GB (1x64GB) 4Rx4 DDR4-2666 3DS ECC	S26361-F4026-E764	S26361-F4026-L764	
128GB (1x128GB) 8Rx4 DDR4-2666 3DS ECC	S26361-F4026-E728	S26361-F4026-L728	
DDR4 lr 2666			
64GB (1x64GB) 4Rx4 DDR4-2666 LR ECC	S26361-F4026-E864	S26361-F4026-L864	

D

Detailed information

Mode	Configuration	RDIMM	RDIMM	Use case, advantage
		x8	LRDIMM x4	
SDDC (chipkill) support	any	no	yes	supports detecting multi-bit errors
Independant channel mode	1 or 2 Modules per Bank	yes	yes	offers max. flexibility, upgradeability, capacity
Mirrored channel mode *)	6 identical Modules / Bank	no	yes	offers maximum security
Performance mode	6 identical Modules / Bank	yes	yes	offers maximum performance and capacity
Rank sparing mode *)	min. 2 Ranks / Channel	no	yes	balances performance and capacity

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

For CX2550 M4 / CX2550 M4 LC / CX2560 M4 / CX2570 M4 / CX2570 M4 LC

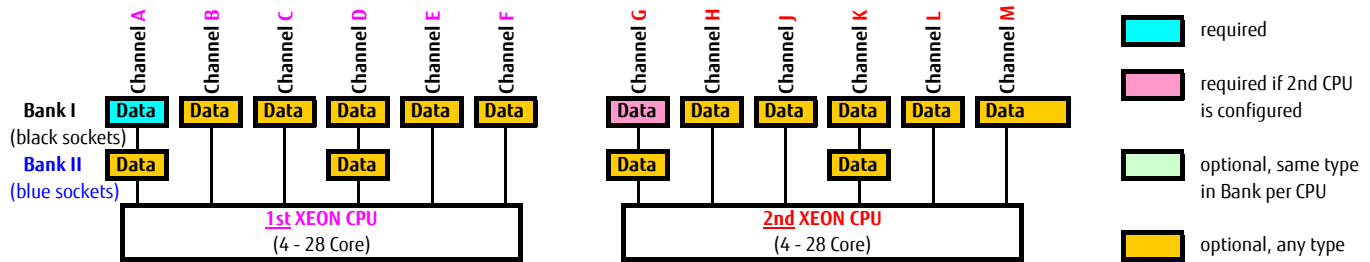
Capacity	Configuration	RDIMM	RDIMM 3DS	Notes
Min. Memory per CPU	1 Module / CPU	1x8GB	1x64GB	with one CPU
Max. Memory per CPU	8 Modules / CPU	8x32GB	8x128GB	with one CPU
Max. Memory per System	16 Modules / System	512GB	2,048GB	if second CPU is configured

The memory sockets on the Systemboards are color coded

Bank I	black sockets	Bank II	blue sockets
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Independant channel mode

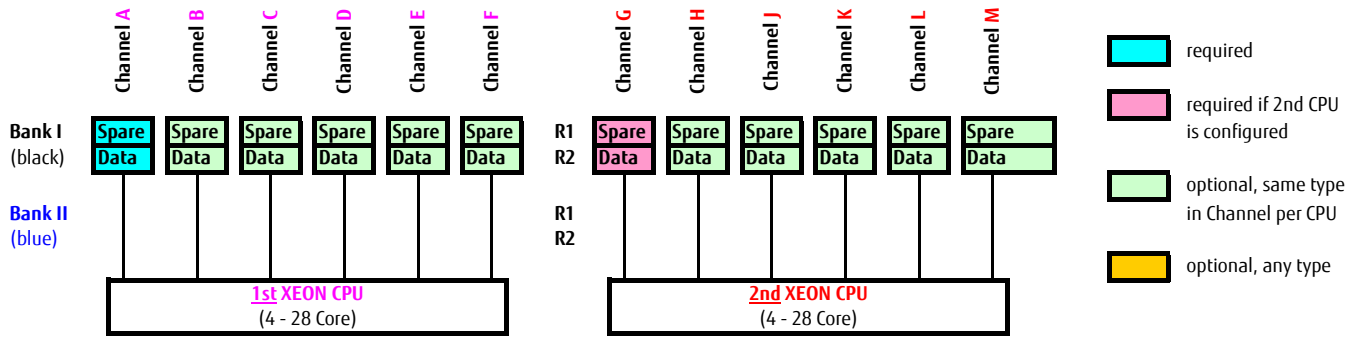
For Node CX2550/CX2560/CX2570 M4



Rank sparing mode --- 1-Rank Memory modules (RDIMM)

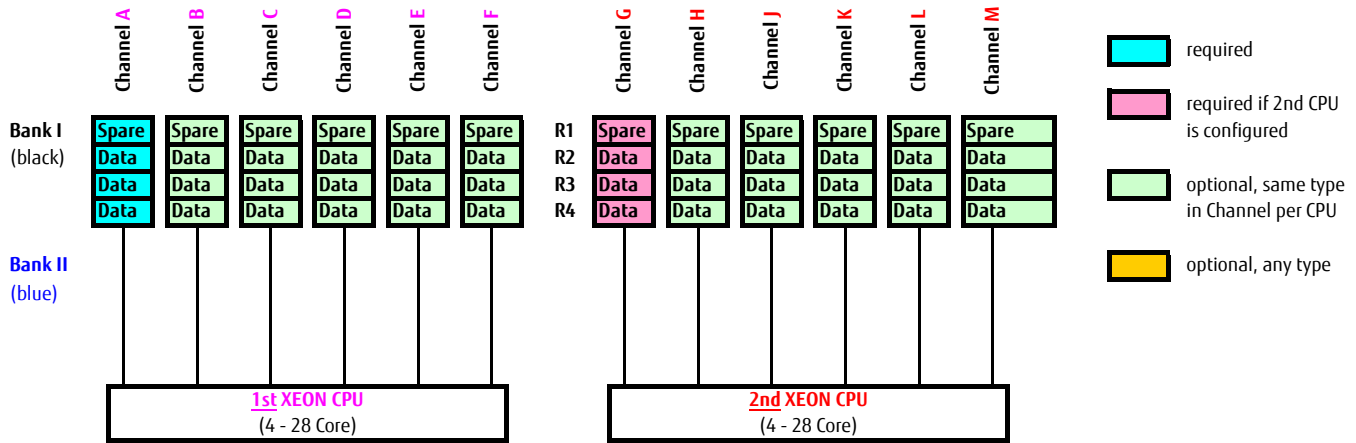
No support for 1 RANK Memory module

For Node CX2560/CX2570 M4 (only supported on 1DPC)



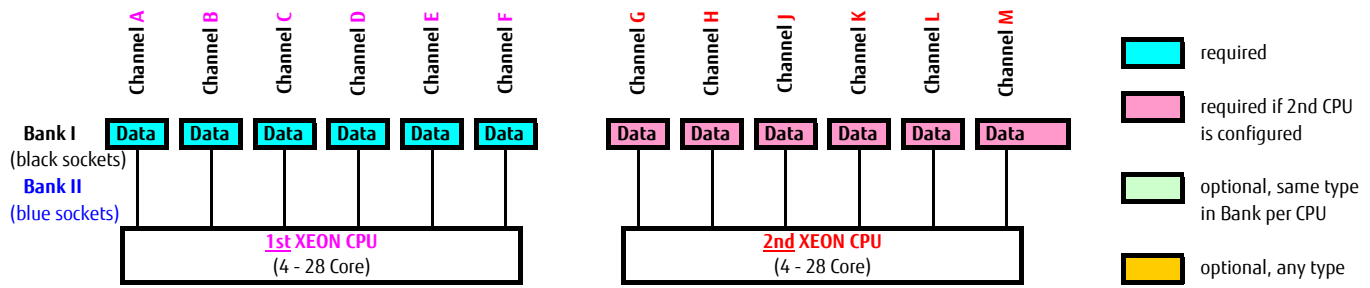
Rank sparing mode --- 4-Rank Memory modules (RDIMM 3DS)

For Node CX2560/CX2570 M4 (only supported on 1DPC)

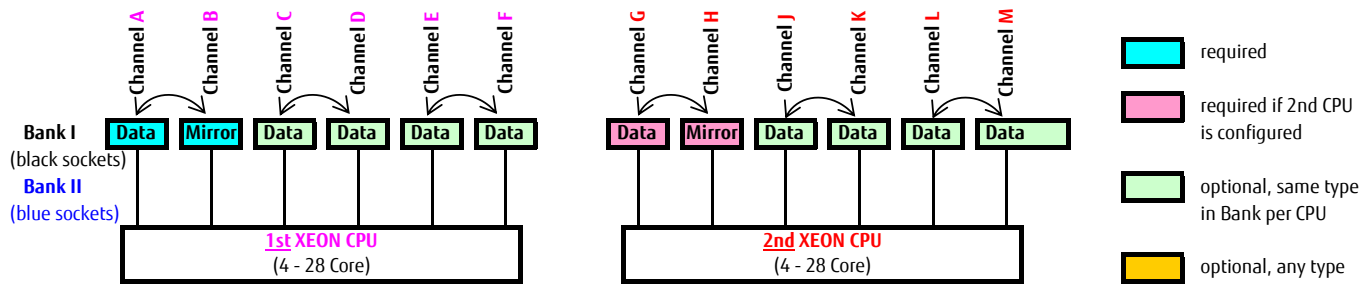


Performance Channel Mode

For Node CX2550/CX2560/CX2570 M4

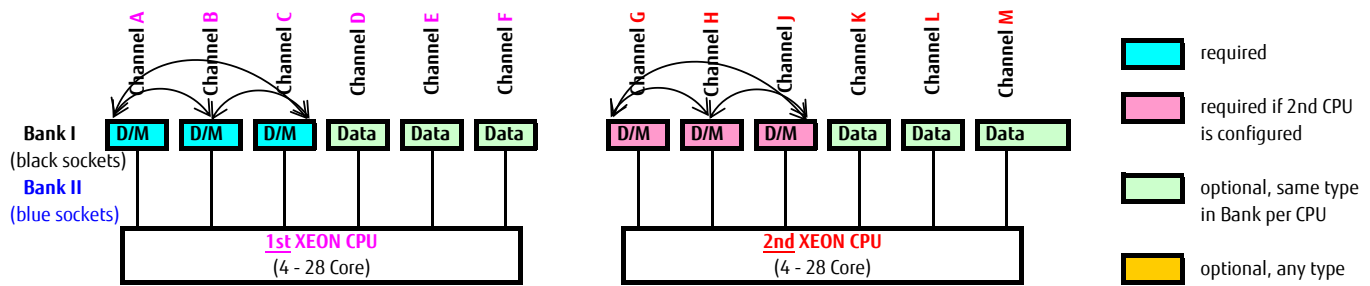


Mirror Channel Mode (2 DIMMS per CPU) For Node CX2560/CX2570 M4 (only supported on 1DPC)



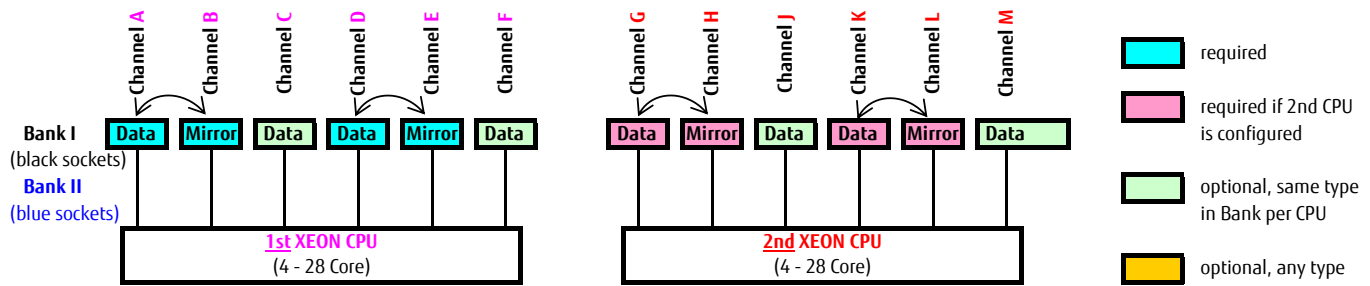
Mirrored Channel Mode (2 DIMMS per CPU) requires identical modules on channel A & B (1st CPU) or channel G & H (2nd CPU) 50% of the capacity is used for the mirror => the available memory for applications is only half of the installed memory. If this mode is used, a multiple of 2 identical modules has to be ordered.

Mirror Channel Mode (3 DIMMS per CPU) For Node CX2560/CX2570 M4 (only supported on 1DPC)



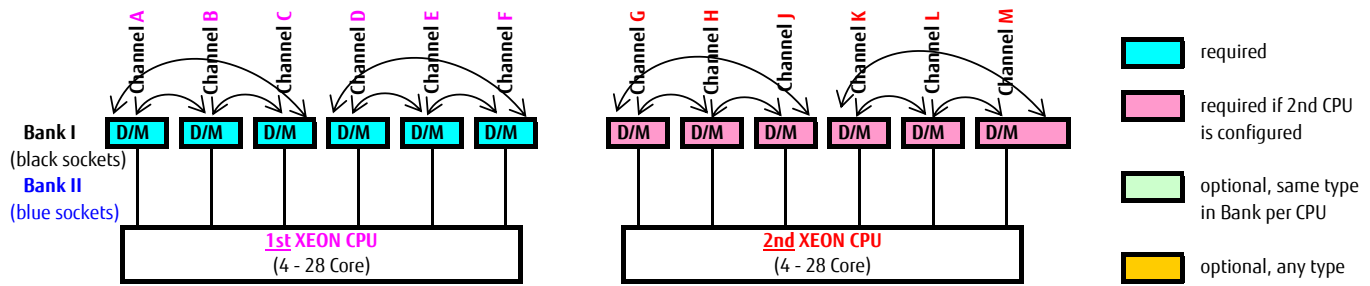
Mirrored Channel Mode (3 DIMMS per CPU) requires identical modules on channel A, B & C (1st CPU) or channel G, H & J (2nd CPU) 50% of the capacity is used for the mirror => the available memory for applications is only half of the installed memory. If this mode is used, a multiple of 3 identical modules has to be ordered.

Mirror Channel Mode (4 DIMMS per CPU) For Node CX2560/CX2570 M4 (only supported on 1DPC)



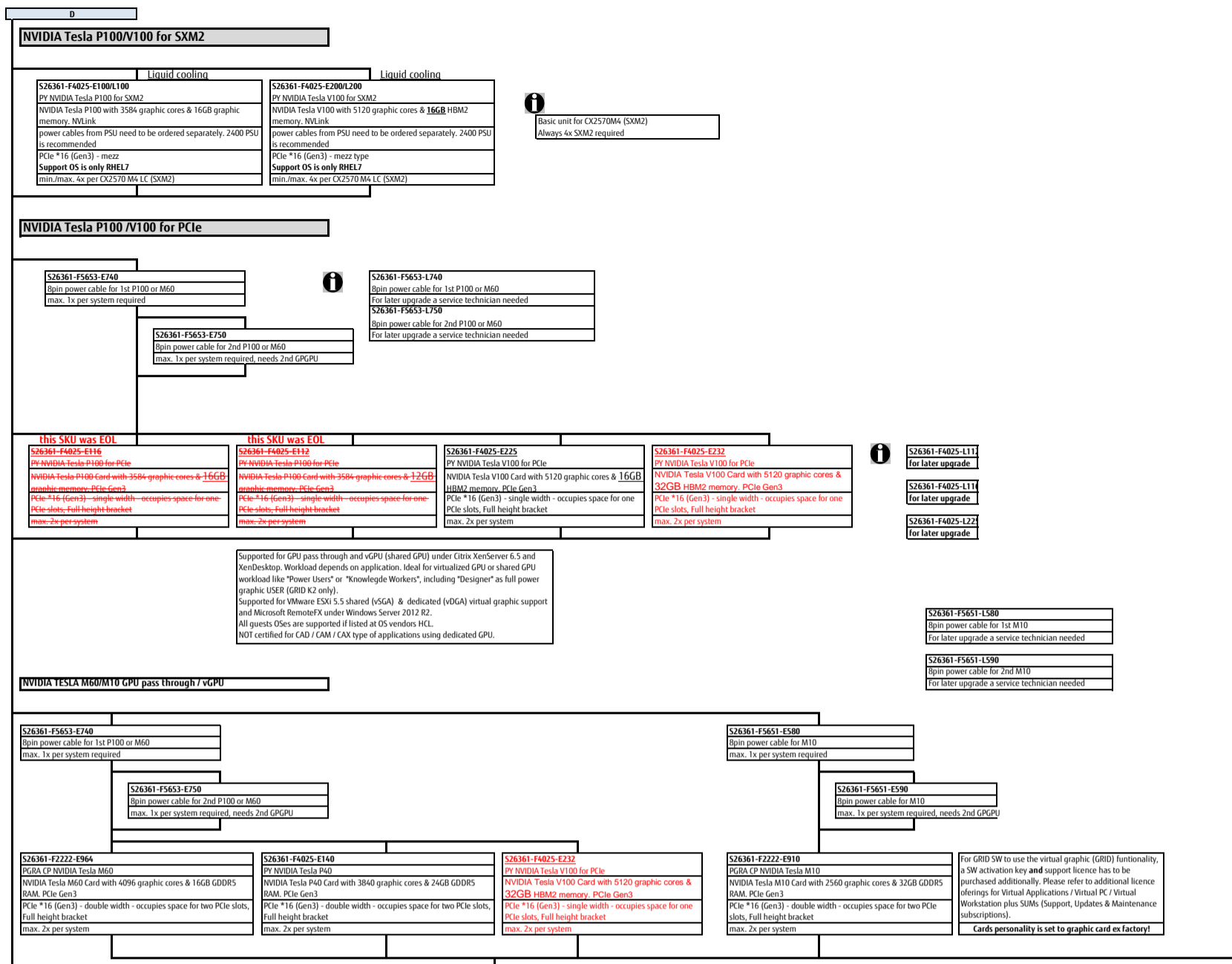
Mirrored Channel Mode (4 DIMMS per CPU) requires identical modules on channel A, B, D & E (1st CPU) or channel G, H, K & L (2nd CPU) 50% of the capacity is used for the mirror => the available memory for applications is only half of the installed memory. If this mode is used, a multiple of 4 identical modules has to be ordered.

Mirror Channel Mode (6 DIMMS per CPU) For Node CX2560/CX2570 M4 (only supported on 1DPC)



Mirrored Channel Mode requires identical modules on channel A, B, C, D, E, F (1st CPU) or channel G, H, J, K, L and M (2nd CPU) 50% of the capacity is used for the mirror => the available memory for applications is only half of the installed memory. If this mode is used, a multiple of 6 identical modules has to be ordered.

Chapter 5 - Graphics options



Perpetual Software license

Table listing Perpetual Software licenses for various SKUs, including part numbers like S26361-F4024-S101 and S26361-F4024-L101, and pricing details.

SUMS must be ordered in equal numbers with each SW perpetual licenses. Please refer data sheet.

Table listing various NVIDIA SUMS License renewals (6 months to 5 years) for different SKUs, including part numbers like S26361-F4024-L956 and S26361-F4024-L966.

Subscription Software license

Table listing Subscription Software licenses for various SKUs, including part numbers like S26361-F4024-S111 and S26361-F4024-L111, and pricing details.

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

Table listing various NVIDIA Subscription License renewals (6 months to 5 years) for different SKUs, including part numbers like S26361-F4024-L906 and S26361-F4024-L916.

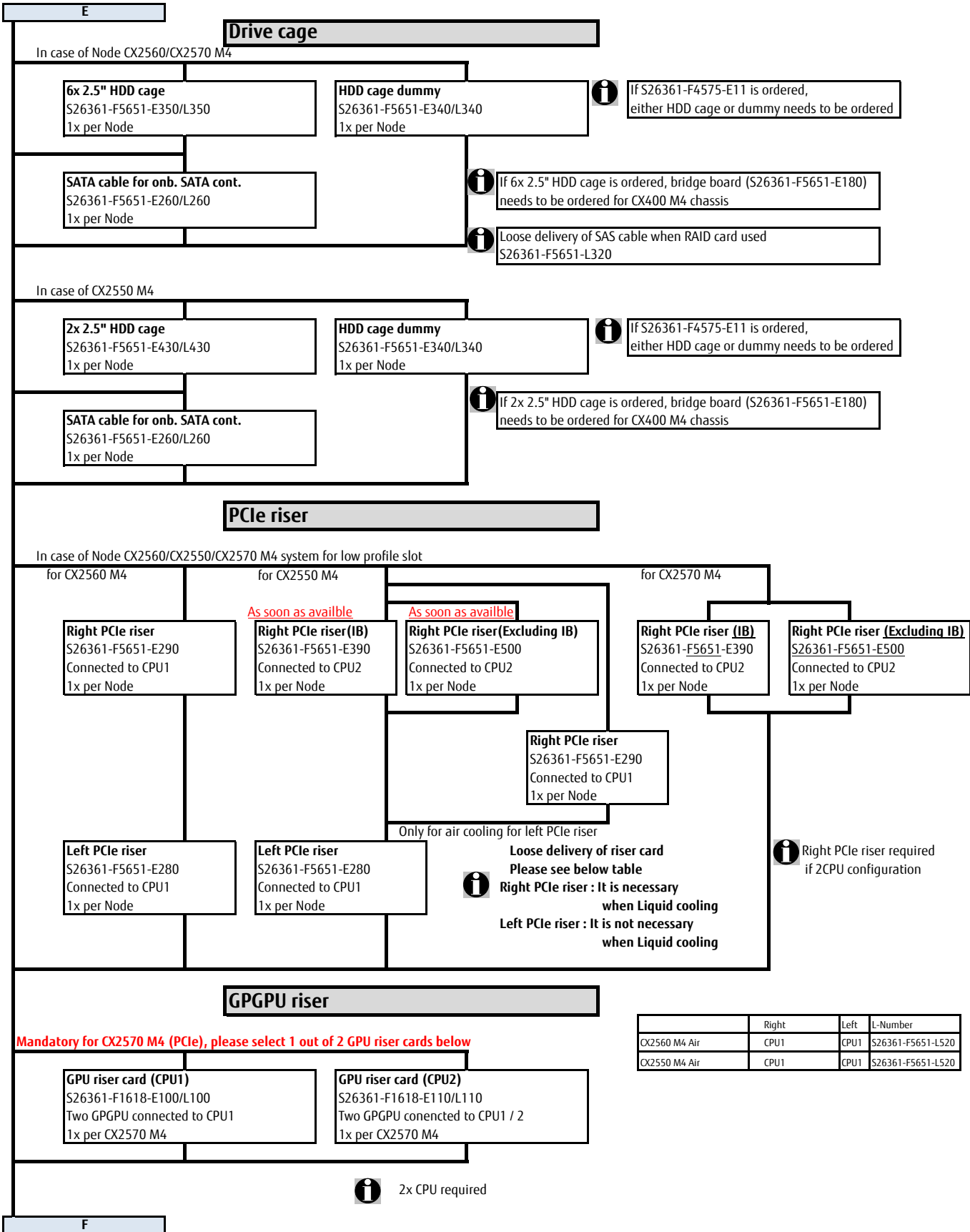
Education Software license

Table listing Education Software licenses, divided into Perpetual license and Subscription license, for various SKUs, including part numbers like S26361-F4024-S401 and S26361-F4024-L401.

EDU SUMS must be ordered in equal numbers with each SW perpetual licenses. Please refer data sheet.

Table listing various NVIDIA EDU SUMS License renewals (6 months to 5 years) for different SKUs, including part numbers like S26361-F4024-L930 and S26361-F4024-L931.

Chapter 6 - Drive cage and PCIe riser options



Chapter 7 - SAS / RAID Controller

G

onboard SATA controller with SW-RAID [for all CX2550 / CX2560 / CX2570 M4](#)

onboard controller for SATA HDD or SSD drives				
6Gb/s SATA HDD/SSD	based on Intel chipset	No Cache	SW-RAID 0, 1	1x onboard, included

internal HBA and RAID controller, no 2nd Level cache [Support for CX2550 / CX2560 / CX2570 Air cooling](#)

internal drive RAID / HBA controllers for SAS, SATA HDD or SSD drives					
PRAID CP400i RAID Contr.	No Cache	RAID 0, 1, 1E, 10, 5, 50	1x	S26361-F3842-E1	S26361-F3842-L501
PSAS CP400i HBA SAS Contr.	No Cache	HBA + RAID 0, 1	1x	S26361-F3842-E2	S26361-F3842-L502
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, supports up to 8 devices without expander requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3008					

internal RAID controller with 2nd Level cache 1GB, 2GB [Support for CX2550 / CX2560 / CX2570 Air cooling](#)
Note: Not possible to connect SATA Device [FBU is supported only for CX2560 / CX2570 Air cooling](#)

internal drive RAID / SAS, SATA controllers with Cache and opt. TFM module + Flash Backup Unit and opt. Advanced SW Options					
PRAID EP400i RAID Contr.	1GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F5243-E11	S26361-F5243-L11
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, supports up to 8 devices without expander requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3108					
optional Licence Activation Key, a free of charge test licence is available at PRIMERGY-PM, FastPath is included in Controller FW					
RAID Advanced SW Option CacheCade ©Broadcom: SSD-cache-based HDD acceleration			1x	S26361-F5243-E670	S26361-F5243-L670
optional Transportable Flash module (TFM) and Flash Backup Unit (FBU), both components required					
TFM module for 1GB Cache	NV-RAM & FBU control logic		1x	S26361-F5243-E100	S26361-F5243-L100
FBU Option for PRAID EP4xx: Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm length			1x	S26361-F5243-E156	S26361-F5243-L112
PRAID EP420i RAID Contr.	2GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F5243-E12	S26361-F5243-L12
PRAID EP420i for SafeStore R. Contr.	2GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F5243-E14**	S26361-F5243-L14**
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, supports up to 8 devices without expander requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3108					
optional Licence Activation Key, a free of charge test licence is available at PRIMERGY-PM, FastPath is included in Controller FW					
RAID Advanced SW Option CacheCade ©Broadcom: SSD-cache-based HDD acceleration			1x	S26361-F5243-E670	S26361-F5243-L670
optional TFM module and Flash Backup Unit (FBU), both components required					
TFM module for 2GB Cache	NV-RAM & FBU control logic		1x	S26361-F5243-E200	S26361-F5243-L200
FBU Option for PRAID EP4xx: Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm length			1x	S26361-F5243-E156	S26361-F5243-L112

G

external SAS controller

****It is strongly recommended to order SafeStore (SED) RAID controller with SED HDD or SSD devices for SafeStore (SED) functionality**
Support for CX2550 / CX2560 / CX2570 Air cooling

HBA controller for ext. drives SAS, SATA HDD or SSD drives

PSAS CP400e HBA SAS Contr. LP	No Cache	HBA, no RAID	2x	S26361-F3845-E201	S26361-F3845-L501
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, 2x SFF8644 (external Mini-SAS HD) requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3008					

external SAS, RAID controller with 2nd Level cache 2GB

Support for CX2550 / CX2560 / CX2570 Air cooling
FBU is supported only for CX2560 / CX2570 Air cooling

RAID / SAS, SATA controllers for external drives with Cache and opt. TFM module + Flash Backup Unit and opt. Advanced SW Options

PRAID EP420e RAID Contr. LP	2GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F3847-E202	S26361-F3847-L502
PRAID EP420e for SafeStore LP	2GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F3847-E204	S26361-F3847-L504
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, 2x SFF8644 (external Mini-SAS HD) requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3108					
optional Licence Activation Key, a free of charge test licence is available at PRIMERGY-PM, FastPath is included in Controller FW					
RAID Advanced SW Option CacheCade ®Broadcom: SSD-cache-based HDD acceleration			1x	S26361-F5243-E670	S26361-F5243-L670
optional TFM module and Flash Backup Unit (FBU), both components required					
TFM module for 2GB Cache	NV-RAM & FBU control logic		1x	S26361-F5243-E200	S26361-F5243-L200
FBU Option for PRAID EP4xx	for base : Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm lenght		1x	S26361-F5243-E156	S26361-F5243-L112

H

Chapter 8 - ODD optical disk drives

No internal ODD support

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Chapter 9 - backup drives

No internal backup drive support

L

Chapter 10 - storage drives

H

SAS drives and SATA drives can be mixed, but cannot be used in one logical RAID volume.
 SATA drives can be connected to the onboard Controller (max. 8x).
 SAS drives require a dedicated SAS / RAID Controller
 Hard Disk Sector Format Information:
 512n HDD: 512 byte sectors on the drive media.
 512e (e=emulation) HDD: 4K physical sectors on the drive media with 512 byte logical configuration.
 512e HDD Disk Drives: VMware is not supported.
 512n & 512e HDDs can be mixed, but cannot be used in one logical RAID volume.
 When using SSDs with VMware ESXi, select the SSDs that meet the endurance requirement described in KB2145210 below.
<https://kb.vmware.com/kb/2145210>
 DWPD (5y): Drive Writes Per Day over 5 years.
 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.
HDD Classes:
 Business-Critical (BC) -SATA=Nearline SATA Enterprise Drives / 7.2Krpm, SATA 6G.
 Business-Critical (BC) -SAS=Nearline SAS Enterprise Drives / 7.2Krpm, SAS 6G or SAS 12G.
 Mission-Critical (MC)=SAS 10K and SAS 15K Enterprise Drives with max. performance and reliability.
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.

2.5" (SFF) SAS and SATA

SSD SAS 2.5" Write Intensive (SFF) Enterprise with hot plug/hot replace tray							Toshiba Phoenix-M3 / M4	
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part	
400GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		S26361-F5608-E400	S26361-F5608-L400	
800GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		S26361-F5608-E800	S26361-F5608-L800	
1.6TB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		S26361-F5608-E160	S26361-F5608-L160	
400GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	S26361-F5611-E400	S26361-F5611-L400	
800GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	S26361-F5611-E800	S26361-F5611-L800	
1.6TB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	S26361-F5611-E160	S26361-F5611-L160	

max. 6x - CX2560 M4 / CX2570 M4 with air cooling

SSD SAS 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray							SanDisk Odyssey	
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part	
400GB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		S26361-F5666-E400	S26361-F5666-L400	
800GB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		S26361-F5666-E800	S26361-F5666-L800	
1.6TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		S26361-F5666-E160	S26361-F5666-L160	
3.2TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	2.3		S26361-F5666-E320	S26361-F5666-L320	

max. 6x - CX2560 M4 / CX2570 M4 with air cooling

SSD SAS 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray							SanDisk Odyssey	
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part	
480GB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		S26361-F5670-E480	S26361-F5670-L480	
960GB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		S26361-F5670-E960	S26361-F5670-L960	
1.92TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		S26361-F5670-E192	S26361-F5670-L192	
3.84TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		S26361-F5670-E384	S26361-F5670-L384	
7.68TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	0.9		S26361-F5670-E768	S26361-F5670-L768	

max. 6x - CX2560 M4 / CX2570 M4 with air cooling

SSD SATA 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray							Samsung SM863 / SM863a / SM883	
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part	
240GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3.6		S26361-F5675-E240	S26361-F5675-L240	
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3.6		S26361-F5675-E480	S26361-F5675-L480	
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3		S26361-F5588-E960	S26361-F5588-L960	
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3		S26361-F5588-E192	S26361-F5588-L192	

max. 6x - CX2560 M4 / CX2570 M4, max. 2x - CX2550 M4

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2.5" (SFF) Hard drives

Note: If HDD selected, CPU must be below 140W and Ambient temperature is below 30 deg-C.

HDD SAS 2.5" 15K (SFF) Enterprise Mission Critical with hot plug/hot replace tray

Capacity	RPM	Interface	Sector	order code E-part	order code L-part
300GB	15 000	SAS 12Gb/s	512n	S26361-F5531-E530	S26361-F5531-L530
450GB	15 000	SAS 12Gb/s	512n	S26361-F5531-E545	S26361-F5531-L545
600GB	15 000	SAS 12Gb/s	512n	S26361-F5531-E560	S26361-F5531-L560
900GB	15 000	SAS 12Gb/s	512n	S26361-F5531-E590	S26361-F5531-L590

max. 6x - CX2560 M4 / CX2570 M4 with air cooling

Note: If HDD selected, CPU must be below 140W and Ambient temperature is below 30 deg-C.

HDD SAS 2.5" 10K 512n (SFF) Enterprise Mission Critical with hot plug/hot replace tray

Capacity	RPM	Interface	Sector	order code E-part	order code L-part
900GB	10 000	SAS 12Gb/s	512n	S26361-F5550-E190	S26361-F5550-L190
1.2TB	10 000	SAS 12Gb/s	512n	S26361-F5550-E112	S26361-F5550-L112
300GB	10 000	SAS 12Gb/s	512n	S26361-F5581-E130	S26361-F5581-L130

max. 6x - CX2560 M4 / CX2570 M4 with air cooling

Note: If HDD selected, CPU must be below 140W and Ambient temperature is below 30 deg-C.

HDD SAS 2.5" 10K 512e (SFF) Enterprise Mission Critical with hot plug/hot replace tray

Capacity	RPM	Interface	Sector	order code E-part	order code L-part
900GB	10 000	SAS 12Gb/s	512e	S26361-F5543-E190	S26361-F5543-L190
1.2TB	10 000	SAS 12Gb/s	512e	S26361-F5543-E112	S26361-F5543-L112

max. 6x - CX2560 M4 / CX2570 M4 with air cooling

Note: If HDD selected, CPU must be below 140W and Ambient temperature is below 30 deg-C.

HDD SAS 2.5" 7.2K 512n (SFF) Enterprise Business Critical with hot plug/hot replace tray

Capacity	RPM	Interface	Sector	order code E-part	order code L-part
1TB	7 200	SAS 12Gb/s	512n	S26361-F5600-E100	S26361-F5600-L100

max. 6x - CX2560 M4 / CX2570 M4 with air cooling

Note: If HDD selected, CPU must be below 140W and Ambient temperature is below 30 deg-C.

HDD SATA 2.5" 7.2K 512n (SFF) Enterprise Business Critical with hot plug/hot replace tray

Capacity	RPM	Interface	Sector	order code E-part	order code L-part
1TB	7 200	SATA 6Gb/s	512n	S26361-F3956-E100	S26361-F3956-L100
2TB	7 200	SATA 6Gb/s	512n	S26361-F3956-E200	S26361-F3956-L200

max. 6x - CX2560 M4 / CX2570 M4, max. 2x - CX2550 M4

Note: If HDD selected, CPU must be below 140W and Ambient temperature is below 30 deg-C.

HDD SATA 2.5" 7.2K 512e (SFF) Enterprise Business Critical with hot plug/hot replace tray

Capacity	RPM	Interface	Sector	order code E-part	order code L-part
1TB	7 200	SATA 6Gb/s	512e	S26361-F3907-E100	S26361-F3907-L100
2TB	7 200	SATA 6Gb/s	512e	S26361-F3907-E200	S26361-F3907-L200

max. 6x - CX2560 M4 / CX2570 M4, max. 2x - CX2550 M4

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M.2 SATA SSD

SSD SATA M.2 drive for booting, non hot-plug, for VMware ESXi							
Capacity	Formfactor	Interface	DWPD	Category		order code E-part	order code L-part
32GB	M.2	SATA 6Gb/s		Boot		S26361-F5657-E32	S26361-F5657-L32

M.2 drive is designed for use as a VMware ESXi boot drive.
 2x M.2 drive for any Hypervisor by the onboard chipset Software RAID is not supported.
 max. 1x - CX2560 M4 / CX2570 M4; connector located on Motherboard. VMware ESXi is only supported.
[S26361-F5634-E152](#) VMware vSphere Embed. M.2 32GB

M.2 drive for VMware ESXi and for other OSs cannot be mixed

SSD SATA M.2 drive for booting, non hot-plug							
Capacity	Formfactor	Interface	DWPD	Category		order code E-part	order code L-part
128GB	M.2	SATA 6Gb/s	0.13	Boot		S26361-F5658-E128	S26361-F5658-L128

M.2 drive is designed for use as a boot drive with the Endurance Spec. above.
 2x M.2 drive for any Hypervisor by the onboard chipset Software RAID is not supported.
 max. 2x - CX2550 M4 / CX2560 M4 / CX2570 M4; connector located on Motherboard. VMware is not supported.

SSD SATA M.2 drive for booting, non hot-plug							
Capacity	Formfactor	Interface	DWPD	Category		order code E-part	order code L-part
256GB	M.2	SATA 6Gb/s	0.13	Boot		S26361-F5658-E256	S26361-F5658-L256

M.2 drive is designed for use as a boot drive with the Endurance Spec. above.
 2x M.2 drive for any Hypervisor by the onboard chipset Software RAID is not supported.
 max. 2x - CX2550 M4 / CX2560 M4 / CX2570 M4; connector located on Motherboard. VMware is not supported.

2.5" (SFF) PCIe-SSD

PCIe-SSD 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
1.6TB	2.5" (SFF)	PCIe3.0 x4	Mixed Use	3.0		S26361-F5648-E160	S26361-F5648-L160
3.2TB	2.5" (SFF)	PCIe3.0 x4	Mixed Use	3.1		S26361-F5648-E320	S26361-F5648-L320
6.4TB	2.5" (SFF)	PCIe3.0 x4	Mixed Use	3.2		S26361-F5648-E640	S26361-F5648-L640

max. 2x - CX2560 M4 / CX2570 M4 with air and liquid cooling

PCIe-SSD Low Power 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
500GB	2.5" (SFF)	PCIe3.0 x4	Read Intensive	0.7		S26361-F5649-E50	S26361-F5649-L50
1TB	2.5" (SFF)	PCIe3.0 x4	Read Intensive	1.0		S26361-F5649-E100	S26361-F5649-L100
2TB	2.5" (SFF)	PCIe3.0 x4	Read Intensive	0.6		S26361-F5649-E200	S26361-F5649-L200
4TB	2.5" (SFF)	PCIe3.0 x4	Read Intensive	0.6		S26361-F5649-E400	S26361-F5649-L400

max. 2x - CX2560 M4 / CX2570 M4 with air and liquid cooling

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Chapter 11 - LAN Components

Default: **1x** RJ45 1GbE ports on systemboard

x1 Dynamic LoM OCP PHY/PCIe interface cards

For CX2560/CX2570

Interface card to provide the external connectors for on-board LAN				
PLAN EM 4x 1Gb T OCP interface Intel	4x RJ45 plug for 1000BASE-T	S26361-F5651-E530	S26361-F5651-L530	
PLAN EM 2x 10Gb T OCP interface Intel	2x RJ45 plug for 10GBASE-T	S26361-F5651-E540	S26361-F5651-L540	
PLAN EM 2x 10GB SFP+ OCP interface Intel	2x SFP+ cages for SFP+ optical transceivers or twinax cables	S26361-F5651-E510	S26361-F5651-L510	
PLAN EM 4x 10GB SFP+ OCP interface Intel	4x SFP+ cages for SFP+ optical transceivers or twinax cables	S26361-F5651-E550	S26361-F5651-L550	
PLAN EP XXV710-DA2 2x 25GB SFP28 OCP Intel XXV710-DA2	2x SFP28 cages for 25G optical transceivers or 25G DAC cables	S26361-F4055-E302	S26361-F4055-L302	
PLAN EP MCX4-LX 2x 25GB SFP28 OCP Mellanox ConnectX4-LX	2x SFP28 cages for 25G optical transceivers or 25G DAC cables	S26361-F4054-E302	S26361-F4054-L302	
Optional for products with SFP+ cages: SFP+ optical transceiver modules or twinax cables				
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x .. 4x	LC, MMF / SR SFP+ module, up to 400m, Intel	S26361-F3986-E5	S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x .. 4x	LC, SMF / LR SFP+ module, up to 10km, Intel	S26361-F3986-E6	S26361-F3986-L6
SFP+ Optical Transceiver 10G Single Rate SR	2x .. 4x	LC, MMF / SR SFP+ module, up to 400m, Finisar	S26361-F3986-E3	S26361-F3986-L3
SFP+ Optical Transceiver 10G Single Rate LR	2x .. 4x	LC, SMF / LR SFP+ module, up to 10km, Finisar	S26361-F3986-E4	S26361-F3986-L4
Twinax Anschlussplatz Primergy	2x .. 4x	virtual connector for twinax cables	V:TWX CONNECTOR-PY	
SFP+ active Twinax Cable Fujitsu	2x .. 4x	customized cable length	S26361-F3989-E600	see table at the
SFP+ active Twinax Cable Brocade	2x .. 4x	(best fitting cable length is defined	S26361-F3873-E500	bottom of this page
Optional, 25Gb SFP28 Optical Transceiver module with LC connector for PLAN EP XXV710-DA2 and MCX4-LX				
SFP28 Optical Transceiver 25G SR E25GSFP28SR LC	2x	MMF / SR SFP28 module, Intel. Max reach supported 30m	S26361-F4055-E701	S26361-F4055-L701
SFP28 Optical Transceiver 25G SR MMA2P00-AS LC	2x	MMF / SR SFP28 module, Mellanox. Max reach supported 100m	S26361-F4054-E701	S26361-F4054-L701
"Virtual Connector" for DAC/AOC cables	2x	Enablement for System Architect	V:DAC/AOC-CONNECTOR-25	
25G DAC - Brocade	2x	DAC are not in Fujitsu's portfolio yet.		
25G DAC - Cisco	2x	Thus, test only and purchase from switch vendors.		
25G DAC - Intel	2x	Thus, test only and purchase from switch vendors.		
25G AOC - Brocade	2x	AOC are not in Fujitsu's portfolio yet.		
25G AOC - Cisco	2x	Thus, test only and purchase from switch vendors.		
25G AOC - Intel	2x	Thus, test only and purchase from switch vendors.		
<i>max. 1x per cage</i>				

1Gb Ethernet network components

1Gb Ethernet controller with RJ45 interface (1000BASE-T)				
PLAN CP 2x1Gbit Cu Intel I350-T2 LP	Up to 2	2 port, Intel	S26361-F4610-E202	S26361-F4610-L502
PLAN CP 4x1Gbit Cu Intel I350-T4 LP	Up to 2	4 port, Intel	S26361-F4610-E204	S26361-F4610-L504
*max. 1 for CX2570 M4, max. 2 for CX2550/CX2560 M4				

10Gb Ethernet network components

10Gb Ethernet controller with RJ45 interface (10GBASE-T)				
PLAN EP X550-T2 2x10GBASE-T LP	*	2 port 10 Gbit Intel X550-T2 (Sageville)	S26361-F3948-E202	S26361-F3948-L502
PLAN EP X710-T4 4x10GBASE-T LP	*	4 port 10 Gbit Intel X710-T4 (Fortville)	S26361-F3948-E204	S26361-F3948-L504
PLAN EP OCe14102 2x 10GBase-T LP	*	2 port NIC with RDMA, Emulex	S26361-F5557-E201	S26361-F5557-L501

10/1Gb Ethernet controller with SFP+ cage requires SFP+ modules or twinax cables, Fujitsu / Intel based)				
Dual rate 10G/1G support requires 10G/1G Dual Rate SFP+ Optical Transceiver Modules				
PLAN EP X710-DA2 2x10Gb SFP+ LP	*	2 port NIC, Intel X710-DA2 (Fortville)	S26361-F3640-E202	S26361-F3640-L502
PLAN EP X710-DA4 4x10Gb SFP+ LP	*	4 port NIC, Intel X710-DA4 (Fortville)	S26361-F3640-E204	S26361-F3640-L504

as soon as available

optional 10Gb SFP+ module with LC connector for Fujitsu / Intel based controller				
SFP+ Optical Transceiver 10G/1G Dual Rate SR	**	LC, MMF / SR SFP+ module, up to 400m, Intel	S26361-F3986-E5	S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate LR	**	LC, SMF / LR SFP+ module, up to 10km, Intel	S26361-F3986-E6	S26361-F3986-L6
SFP+ Optical Transceiver 10G Single Rate SR	**	LC, MMF / SR SFP+ module, up to 400m, Finisar	S26361-F3986-E3	S26361-F3986-L3
SFP+ Optical Transceiver 10G Single Rate LR	**	LC, SMF / LR SFP+ module, up to 10km, Finisar	S26361-F3986-E4	S26361-F3986-L4
Twinax Anschlussplatz Primergy	**	virtual connector for twinax cables	V:TWX CONNECTOR-PY	
SFP+ active Twinax Cable Fujitsu	**	customized cable length	S26361-F3989-E600	see table at the
SFP+ active Twinax Cable Brocade	**	(best fitting cable length is defined	S26361-F3873-E500	bottom of this page

**max. 4x (OCP PHY, DA4), and 2x SFP+ or Twinax Cable per controller
*max. 1 for CX2570 M4, max. 2 for CX2550/CX2560 M4

10Gb Ethernet controller with SFP+ interface (for SFP+ modules or twinax cables, Emulex)				
PLAN EP OCe14102 2x10Gb LP	*	2 port NIC with RDMA, Emulex	S26361-F5536-E202	S26361-F5536-L502
PCNA EP OCe14102 2x 10Gb LP (*1)	*	2 port CNA with FCoE & RDMA, Emulex	S26361-F5250-E201	S26361-F5250-L501
optional 10Gb SFP+ module with LC connector for Emulex controller				
PCNA SFP+ MMF Modul OCe14102	***	MMF / SR SFP+ module, up to 400m, Emulex	S26361-F5250-E110	S26361-F5250-L110
Twinax Anschlussplatz Primergy	***	virtual connector for twinax cables	V:TWX CONNECTOR-PY	
SFP+ active Twinax Cable Fujitsu	***	customized cable length (best fitting cable length is defined during rack installation at the factory)	S26361-F3989-E600	see table at the bottom of this page
SFP+ active Twinax Cable Brocade	***		S26361-F3873-E500	
***max. 2x SFP+ or Twinax Cable per controller				
*max. 1 for CX2570 M4, max. 2 for node CX2550 / CX2560 M4				

(*1) Only linux support

25/10Gb Ethernet network components

25/10Gb Ethernet controller with 2x SFP28 cages (requires twinax cables or optical transceiver SFP28 or SFP+ modules)				
Dual speed support, auto-sense - supports 25Gbps and 10Gbps line rate per-port				
PLAN EP QL41212 25Gb 2p SFP28 LP	*)	Dual Port NIC, iWARP & RoCE RDMA, Cavium	S26361-F4056-E202	S26361-F4056-L502
Optional, 25Gb SFP28 Optical Transceiver module with LC connector for PLAN EP QL41212 25Gb 2p SFP28				
SFP28 Optical Transceiver 25G SR		MMF / SR SFP28 module, Mellanox.	S26361-F4054-E701	S26361-F4054-L701
MMA2P00-AS LC	2x	Max reach supported 100m	V:DAC/AOC-CONNECTOR-25	
"Virtual Connector" for DAC/AOC cables	2x	Enablement for System Architect		
25G DAC - Cisco	2x	DAC are not in Fujitsu's portfolio yet.		
25G DAC - Mellanox	2x	Thus, test only and purchase from switch vendors.		
25G AOC - Cisco	2x	AOC are not in Fujitsu's portfolio yet.		
25G AOC - Mellanox	2x	Thus, test only and purchase from switch vendors.		
Max. 2x SFP28 or DAC/AOC Cable per PLAN EP QL41212 25Gb 2p SFP28				
Optional, 10Gb SFP+ Optical Transceiver module with LC connector for PLAN EP QL41212 25Gb 2p SFP28				
SFP+ Optical Transceiver 10G Single Rate	2x	LC, MMF / SR SFP+ module, up to 400m	S26361-F3986-E3	S26361-F3986-L3
SFP+ Optical Transceiver 10G Single Rate	2x	LC, SMF / LR SFP+ module, up to 10km	S26361-F3986-E4	S26361-F3986-L4
"Virtual Connector" for Twinax cables	2x	Enablement for System Architect	V:TWX CONNECTOR-10	
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 bottom of this page
SFP+ active Twinax Cable - Brocade	2x		S26361-F3873-E500	
SFP+ active Twinax Cable Brocade	2x			
max. 2x SFP+ or Twinax Cable per PLAN EP QL41212 25Gb 2p SFP28				
*) max. 2x PLAN EP QL41212 25Gb 2p SFP28 for CX2550 M4, max 2x for CX2560 M4, max 1x for CX2570 M4.				

25/10Gb Ethernet controller with 2x SFP28 cages (requires twinax cables or optical transceiver SFP28 or SFP+ modules)						
Multiple speed support, auto-sense - supports 25Gbps, 10Gbps and 1Gbps line rate per-port						
PLAN EP XXV710-DA2 2x25Gb LP	*)	Dual Port NIC, Intel	S26361-F4055-E202	S26361-F4055-L502		
Optional, 25Gb SFP28 Optical Transceiver module with LC connector for PLAN EP XXV710-DA2						
SFP28 Optical Transceiver 25G SR		MMF / SR SFP28 module, Intel.	S26361-F4055-E701	S26361-F4055-L701		
E25GSFP28SR LC	2x	Max reach supported 30m	V:DAC/AOC-CONNECTOR-25			
SFP28 Optical Transceiver 25G SR		MMF / SR SFP28 module, Mellanox.			S26361-F4054-E701	S26361-F4054-L701
MMA2P00-AS LC	2x	Max reach supported 100m				
"Virtual Connector" for DAC/AOC cables	2x	Enablement for System Architect				
25G DAC - Brocade	2x	DAC are not in Fujitsu's portfolio yet.				
25G DAC - Cisco	2x	Thus, test only and purchase from switch vendors.				
25G DAC - Intel	2x					
25G AOC - Brocade	2x	AOC are not in Fujitsu's portfolio yet.				
25G AOC - Cisco	2x	Thus, test only and purchase from switch vendors.				
25G AOC - Intel	2x					
Max. 2x SFP28 or DAC/AOC Cable per PLAN EP XXV710-DA2. No SFP28 for OCP Type 1 allowed.						
Optional, 10Gb SFP+ Optical Transceiver module with LC connector for PLAN EP XXV710-DA2						
SFP+ Optical Transceiver 10G/1G Dual Rate	2x	LC, MMF / SR SFP+ module, up to 400m	S26361-F3986-E5	S26361-F3986-L5		
SFP+ Optical Transceiver 10G/1G Dual Rate	2x	LC, SMF / LR SFP+ module, up to 10km	S26361-F3986-E6	S26361-F3986-L6		
SFP+ Optical Transceiver 10G Single Rate	2x	LC, MMF / SR SFP+ module, up to 400m	S26361-F3986-E3	S26361-F3986-L3		
SFP+ Optical Transceiver 10G Single Rate	2x	LC, SMF / LR SFP+ module, up to 10km	S26361-F3986-E4	S26361-F3986-L4		
"Virtual Connector" for Twinax cables	2x	Enablement for System Architect	V:TWX CONNECTOR-10			
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 bottom of this page		
SFP+ active Twinax Cable - Brocade	2x		S26361-F3873-E500			
SFP+ active Twinax Cable Brocade	2x					
max. 2x SFP+ or Twinax Cable per controller						
*) max. 2 controllers per CX2550 M4; max. 2 controllers per CX2560 M4; max. 1 controller for CX2570 M4.						

25/10Gb Ethernet controller with 2x SFP28 cages (requires twinax cables or optical transceiver SFP28 or SFP+ modules)				
Dual speed support, auto-sense - supports 25Gbps and 10Gbps line rate per-port				
PLAN EP MCX4-LX 25Gb 2p SFP28 LP	*)	Dual Port NIC, RoCE RDMA, Mellanox	S26361-F4054-E202	S26361-F4054-L502
Optional, 25Gb SFP28 Optical Transceiver module with LC connector for PLAN EP MCX4-LX 25Gb 2p SFP28				
SFP28 Optical Transceiver 25G SR MMA2P00-AS LC	2x	MMF / SR SFP28 module, Mellanox. Max reach supported 100m	S26361-F4054-E701	S26361-F4054-L701
"Virtual Connector" for DAC/AOC cables	2x	Enablement for System Architect	V:DAC/AOC-CONNECTOR-25	
25G DAC - Cisco	2x	DAC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors		
25G DAC - Mellanox	2x			
25G AOC - Cisco	2x	AOC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors		
25G AOC - Mellanox	2x			
Max. 2x SFP28 or DAC/AOC Cable per PLAN EP MCX4-LX 25Gb 2p SFP28				
Optional, 10Gb SFP+ Optical Transceiver module with LC connector for PLAN EP MCX4-LX 25Gb 2p SFP28				
SFP+ Optical Transceiver 10G/1G Dual Rate LC	2x	LC, MMF / SR SFP+ module, up to 400m	S26361-F3986-E5	S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate SMF	2x	LC, SMF / LR SFP+ module, up to 10km	S26361-F3986-E6	S26361-F3986-L6
SFP+ Optical Transceiver 10G Single Rate LC	2x	LC, MMF / SR SFP+ module, up to 400m	S26361-F3986-E3	S26361-F3986-L3
SFP+ Optical Transceiver 10G Single Rate SMF	2x	LC, SMF / LR SFP+ module, up to 10km	S26361-F3986-E4	S26361-F3986-L4
"Virtual Connector" for Twinax cables	2x	Enablement for System Architect	V:TWX CONNECTOR-10	
SFP+ active Twinax Cable - Fujitsu	2x	customized cable length	S26361-F3989-E600	see table at the bottom of this page
SFP+ active Twinax Cable - Brocade	2x	(best fitting cable length is defined during rack installation at the factory)	S26361-F3873-E500	
SFP+ active Twinax Cable Brocade	2x			
max. 2x SFP+ or Twinax Cable per controller				
*) max. 2x PLAN EP MCX4-LX 25Gb 2p SFP28 for CX2550 M4, max 2x for CX2560 M4, max 1x for CX2570 M4.				

40Gb Ethernet network components

40Gb Ethernet controller with QSFP cage (requires DAC, AOC cables or optical transceiver QSFP modules)				
Supports 40Gbps line rate per-port				
PLAN EP MCX4-EN 40Gb 2p QSFP LP	*)	Dual Port NIC, RoCE RDMA, Mellanox	S26361-F4053-E202	S26361-F4053-L502
Optional, 40Gb QSFP Optical Transceiver module with MPO connector for PLAN EP MCX4-EN 40Gb 2p QSFP				
QSFP 40G SR4L MPO 850nm 30m MC2210411-SR4L	2x	MMF / SR4L QSFP module, Mellanox. Max reach supported 30m	S26361-F4053-E701	S26361-F4053-L701
QSFP 40G SR4 MPO 850nm 150m MC2210411-SR4	2x	MMF / SR4 QSFP module, Mellanox. Max reach supported 150m	S26361-F4053-E702	S26361-F4053-L702
"Virtual Connector" for DAC/AOC cables	2x	Enablement for System Architect	V:DAC/AOC-CONNECTOR-40	
40G DAC - Cisco	2x	DAC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors		
40G DAC - Mellanox	2x			
40G AOC - Cisco	2x	AOC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors		
40G AOC - Mellanox	2x			
max. 2x QSFP or DAC, AOC per PLAN EP MCX4-EN 40Gb 2p QSFP				
*) max. 2x PLAN EP MCX4 EN 40Gb 2p QSFP for CX2550 M4, max 2x for CX2560 M4, max 1x for CX2570 M4.				

100Gb Ethernet network components

100Gb Ethernet controller with 1x QSFP28 cage (requires twinax cables or optical transceiver QSFP28 modules)				
Supports 100Gbps line rate				
PLAN EP QL45611 100Gb 1p QSFP28 LP	*)	Single Port NIC, RoCE RDMA, Cavium	S26361-F4057-E201	S26361-F4057-L501
Optional, 100Gb QSFP28 Optical Transceiver module with MPO connector for PLAN EP QL45611 100Gb 1p QSFP28				
QSFP28 100G SR4 MPO 850nm 100m MMA1B00-C100D	1x	MMF / SR4 QSFP28 module, Mellanox. Max reach supported 100m	S26361-F4052-E701	S26361-F4052-L701
QSFP28 100G PSM4 1310nm 500m MMS1C10-CM	1x	MMF / SR QSFP28 module, Mellanox. Max reach supported 500m	S26361-F4052-E801	S26361-F4052-L801
"Virtual Connector" for DAC/AOC cables	1x	Enablement for System Architect	V:DAC/AOC-CONNECTOR-100	
100G DAC - Cisco	1x	DAC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors		
100G DAC - Mellanox	1x			
100G AOC - Cisco	1x	AOC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors		
100G AOC - Mellanox	1x			
Max. 1x QSFP28 or DAC/AOC Cable per PLAN EP QL45611 100Gb 1p QSFP28				

*) max. 2x PLAN EP QL45611 100Gb 1p QSFP28 for CX2550 M4, max 2x for CX2560 M4, max 1x for CX2570 M4.

100Gb Ethernet controller with 1x QSFP28 cage (requires twinax cables or optical transceiver QSFP28 modules)				
Supports 100Gbps line rate				
PLAN EP MCX4-EN 100Gb 1p QSFP28 LP	*)	Single Port NIC, RoCE RDMA, Mellanox	S26361-F4052-E201	S26361-F4052-L501
Optional, 100Gb QSFP28 Optical Transceiver module with MPO connector for PLAN EP MCX4-EN 100Gb 1p QSFP28				
QSFP28 100G SR4 MPO 850nm 100m MMA1B00-C100D	1x	MMF / SR4 QSFP28 module, Mellanox. Max reach supported 100m	S26361-F4052-E701	S26361-F4052-L701
QSFP28 100G PSM4 1310nm 500m MMS1C10-CM	1x	MMF / SR QSFP28 module, Mellanox. Max reach supported 500m	S26361-F4052-E801	S26361-F4052-L801
"Virtual Connector" for DAC/AOC cables	1x	Enablement for System Architect	V:DAC/AOC-CONNECTOR-100	
100G DAC - Cisco	1x	DAC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors		
100G DAC - Mellanox	1x	Thus, test only and purchase from switch vendors		
100G AOC - Cisco	1x	AOC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors		
100G AOC - Mellanox	1x	Thus, test only and purchase from switch vendors		
Max. 1x QSFP28 or DAC/AOC Cable per PLAN EP MCX4-EN 100Gb 1p QSFP28				
*) max. 2x PLAN EP MCX4 EN 100Gb 1p QSFP28 for CX2550 M4, max 2x for CX2560 M4, max 1x for CX2570 M4.				

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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

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Chapter 12 - Fibre Channel Controller

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 **Liquid cooling base unit / CX2550 M4 does not support FC controller**

32Gb Fibre Channel controller generation 6 with LC interface for 50µm optical cables (OM3 or OM4)				
Dual speed support - supports 32Gb and 16Gb				
PFC EP LPe32000 1x 32Gb LP	*****	1 port, low profile, Broadcom/Emulex	S26361-F4044-E201	S26361-F4044-L501
PFC EP LPe32002 2x 32Gb LP	*****	2 port, low profile, Broadcom/Emulex	S26361-F4044-E202	S26361-F4044-L502
PFC EP QLE2740 1x 32Gb LP	*****	1 port, low profile, Cavium/Qlogic	S26361-F4043-E201	S26361-F4043-L501
PFC EP QLE2742 2x 32Gb LP	*****	2 port, low profile, Cavium/Qlogic	S26361-F4043-E202	S26361-F4043-L502
16Gb Fibre Channel controller generation 6 with LC interface for 50µm optical cables (OM3 or OM4)				
Dual speed support - supports 16Gb and 8Gb				
PFC EP LPe31000 1x 16Gb LP	*****	1 port, low profile, Broadcom/Emulex	S26361-F5596-E201	S26361-F5596-L501
PFC EP LPe31002 2x 16Gb LP	*****	2 port, low profile, Broadcom/Emulex	S26361-F5596-E202	S26361-F5596-L502
PFC EP QLE2690 1x 16Gb LP	*****	1 port, low profile, Cavium/Qlogic	S26361-F5580-E201	S26361-F5580-L501
PFC EP QLE2692 2x 16Gb LP	*****	2 port, low profile, Cavium/Qlogic	S26361-F5580-E202	S26361-F5580-L502
*****max. 1 for CX2570 M4, max. 2 for CX2560 M4 (No FC card support for CX2550 M4)				

Chapter 13 - Infiniband Controllers

S26361-F4533-E102	S26361-F4533-E202
IB HCA 56Gb 1channel FDR	IB HCA 56Gb 2channel FDR
56GBit 1channel Infiniband Controller with FDR technology	56GBit 2channel Infiniband Controller with FDR technology
Q-SFP+ connector	Q-SFP+ connector
PCIe x8, 170mm	PCIe x8, 170mm
max. 1x per CX2570, 2 for the other	max. 1x per CX2570, 2 for the other

S26361-F5540-E102/E202 S26361-F5540-L102/L202
IB HCA 100Gb 1 / 2channel EDR
100GBit 1 / 2channel Infiniband Controller EDR technology (8.0GT/s)
1x / 2x Q-SFP+ connector
PCIe Gen3 x16, 170mm
max. 1x per CX2570, 2 for the other

S26361-F5562-E10
POP EP 100Gb 1port Omni Path
100GBit 1channel HFI Card
Q-SFP+ connector
PCIe x16
max. 1x per CX2570, 2 for the other
Supported only with Linux



Please select when use OmniPath port in Xeon Gold 61xxF/81XXF

The following card can not be mixed Infiniband card(S26361-F4533-E102/S26361-F4533-E202/S26361-F5540-E102/E202)

S26361-F4054-E302/S26361-F4052-E201/S26361-F4052-E1/S26361-F4053-E2/S26361-F4053-E202
S26361-F4054-E2/S26361-F4054-E202

The following card can not be mixed with Infiniband card(S26361-F5562-E10)

S26361-F4054-E302/S26361-F4052-E201/S26361-F4052-E1/S26361-F4053-E2/S26361-F4053-E202
S26361-F4054-E2/S26361-F4054-E202

Network Components, Controller and cables for later upgrade

56Gbit/s 1ch Infiniband Controller	S26361-F4533-L102
56Gbit/s 2ch Infiniband Controller	S26361-F4533-L202
100Gbit/s 1ch Infiniband Controller	S26361-F5540-L102
100Gbit/s 2ch Infiniband Controller	S26361-F5540-L202
QSFP, IB 56Gb, 1m	S26361-F3996-L561
QSFP, IB 56Gb, 3m	S26361-F3996-L563
QSFP, IB 100Gb, 1m	S26361-F5549-L561
QSFP, IB 100Gb, 3m	S26361-F5549-L563

Omni Path

100Gbit/s 1ch Omni Path HFI Card	S26361-F5562-L10
100Gbit/s 1 port Omni Path PHY Card	S26361-F5651-L460
QSFP, Omni 100Gb, 1.5m	S26361-F5563-L150
QSFP, Omni 100Gb, 2m	S26361-F5563-L200
QSFP, Omni 100Gb, 3m	S26361-F5563-L300

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Chapter 15 - Accessories

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<http://www.fujitsu.com/fts/products/computing/peripheral/accessories/index-facts.html>

USB Mouse:

Mouse M520 Black	S26381-K467-E100	S26381-K467-L100
Mouse M520 Grey	S26381-K467-E101	S26381-K467-L101
Mouse M530 Black	n/a	S26381-K468-L100
Mouse M530 Grey	n/a	S26381-K468-L101



USB sticks (FOR PROJECTS ONLY) - no standard release

ADATA USB 3.0 Flash Stick UE700 – 32GB		.332
ADATA USB 3.0 Flash Stick UE700 – 64GB		



USB Keyboards for Tower Servers for following countries:

USB professional Keyboard KBPC PX ECO	Country version	FUJITSU Keyboard KB521 USB (grey)
	US/ int 105 keys (UK keyboard + US int. Layout)	S26381-K521-E102
S26381-K341-E104	Czech/Slovak	S26381-K521-E104
S26381-K341-E110	US 104 keys (US keyboard + US layout)	S26381-K521-E110
S26381-K341-E120	Germany	S26381-K521-E120
S26381-K341-E122	Germany / Int	S26381-K521-E122
S26381-K341-E140	France	S26381-K521-E140
S26381-K341-E154	Sweden / Finland	S26381-K521-E154
S26381-K341-E165	United Kingdom	S26381-K521-E165
S26381-K341-E170	Switzerland	S26381-K521-E170
S26381-K341-E180	Spain	S26381-K521-E180
S26381-K341-E185	Italy	S26381-K521-E185



Please find the layout of all Fujitsu keyboards here:
<http://abg0355a.abg.fsc.net/>

USB Optical Disc Drive

Fujitsu External Super Multi Drive	S26341-F103-L142
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Chapter 16 - others

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S26361-F1790-E243 S26361-F1790-L244
iRMC S4 advanced pack / S5 alternatively
integrated remote Management controller activation key for graphical console redirection and remote media redirection
max. 1x per system

Advanced Thermal design cannot be combined with the Flash backup unit of the RAID controllers

as soon as available

as soon as available

S26361-F3776-E240
Cool-safe® Advanced Thermal design 40°C
enables the PRIMERGY Server to cope with temperatures from 5-40° in operating mode due to extended Fan settings
this setting can be activated ex factory only
max. 1x per system

S26361-F3776-E245
Cool-safe® Advanced Thermal design 45°C
enables the PRIMERGY Server to cope with temperatures from 5-45° in operating mode due to extended Fan settings
this setting can be activated ex factory only
max. 1x per system

S26361-F3552-E100 S26361-F3552-L100
TPM Module 2.0
max. 1x per system

S26361-F1790-E311 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 SD card - Paper with TAN for Licensekey

Your Server is ready

Legend

GR: General Release

NR: No release

Cooling	Supplier	Model Name	PRIMERGY CX400 M4					
			CX2560 M4		CX2550 M4		CX2570 M4	
			Air	Liquid	Air	Liquid	Air/Liquid	Air
Target market			Cloud	Special release	HPC	HPC	P100/V100	M60/M10/P40
Microsoft Windows								
Windows Server 2016								
			GR	NR	GR	NR	NR	SR
		Windows Server 2016 Datacenter	GR	NR	GR	NR	NR	NR
		Windows Server 2016 Standard	GR	NR	GR	NR	NR	NR
		Windows Server 2016 Essentials	GR	NR	GR	NR	NR	NR
		Windows Storage Server 2016 Standard	GR	NR	NR	NR	NR	NR
Windows Server 2012R2								
		Microsoft Hyper-V Server 2012R2	GR	NR	SR	NR	NR	NR
		Windows Server 2012R2 Datacenter	GR	NR	SR	NR	NR	NR
		Windows Server 2012R2 Standard	GR	NR	SR	NR	NR	NR
		Windows Server 2012R2 Essentials	GR	NR	SR	NR	NR	NR
		Windows Server 2012R2 Foundation	GR	NR	SR	NR	NR	NR
		Windows Storage Server 2012R2 Standard	GR	NR	NR	NR	NR	NR
Windows Server 2012								
		Microsoft Hyper-V Server 2012	NR	NR	NR	NR	NR	NR
		Windows Server 2012 Datacenter	NR	NR	NR	NR	NR	NR
		Windows Server 2012 Standard	NR	NR	NR	NR	NR	NR
		Windows Server 2012 Essentials	NR	NR	NR	NR	NR	NR
		Windows Server 2012 Foundation	NR	NR	NR	NR	NR	NR
		Windows Storage Server 2012 Standard	NR	NR	NR	NR	NR	NR
RedHat Linux								
		Red Hat Enterprise Linux 32-bit	NR	NR	NR	NR	NR	NR
		Red Hat Enterprise Linux 64-bit	GR	NR	GR	GR	SR	NR
		Red Hat Enterprise Linux 64-bit	GR	SR	GR	GR	GR	NR
		Red Hat Enterprise Linux 64-bit	GR	SR	GR	GR	GR	NR
Suse Linux								
		SUSE Linux Enterprise Server 11 32-bit	NR	NR	NR	NR	NR	NR
		SUSE Linux Enterprise Server 11 64-bit	NR	NR	NR	NR	NR	NR
		SUSE Linux Enterprise Server 12 64-bit	GR	NR	GR	GR	NR	NR
		SUSE Linux Enterprise Server 12 64-bit	GR	NR	GR	GR	SR	NR
		Open Enterprise Server 2 32-bit	NR	NR	NR	NR	NR	NR
		Open Enterprise Server 2 64-bit	NR	NR	NR	NR	NR	NR
VMware ESX Server								
		ESXi 5.1 (inc. FT)	NR	NR	NR	NR	NR	NR
		ESXi 5.5	NR	NR	NR	NR	NR	NR
		ESXi 6.0 U3	GR	NR	NR	NR	NR	NR
		ESXi 6.5 Patch 1	GR	NR	NR	NR	NR	NR
		ESXi 6.5 U1	GR	NR	NR	NR	NR	GR
Oracle								
		Oracle Linux 6 (RHEL & UEK kernel) 64-bit	GR	NR	NR	NR	NR	NR
		Oracle Linux 7 (RHEL & UEK kernel) 64-bit	GR	NR	NR	NR	NR	NR
		Oracle Virtual Manager 3	GR	NR	NR	NR	NR	NR
		Solaris 11 64-bit	NR	NR	NR	NR	NR	NR
Citrix								
		XenServer	NR	NR	NR	NR	NR	NR
		XenServer	GR	NR	NR	NR	NR	GR
Other								
		WinPE	NR	NR	NR	NR	NR	NR
		CentOS	6.9 & 7.3	tested	NR	tested	tested	tested

Date of change [dd.mm.yyyy]	Folder / order code / description	Name	What has been changed / comment
19.03.2020	Other	Hiroyuki Homma	update
25.09.2019	Base	Hiroyuki Homma	Added node population rules
16.04.2019	GFX	Takayuki Sasaki	Added V100 32GB card in GPGPU & VDI parts.
25.03.2019	RAID	Shotaro Ichihashi	Delete EP520i
2019/3/	HD_SSD	Shotaro Ichihashi	Add the SSD
08.02.2019	LAN_FC_IB	Masanori Takaoka	Add the limitation for Mellanox Infiniband/Ether. Add the limitation for Intel OMNI/Mellanox Ether.
05.02.2019	HD_SSD	Shotaro Ichihashi	Delete SSD
31.01.2019	HD_SSD	Shotaro Ichihashi	Delete Dual microSD/ AIC PCI SSD
22.10.2018	GFX	Takayuki Sasaki	Add and modify NVIDIA GRID license SKU.
05.09.2018	GFX	Takayuki Sasaki	Delete NVIDIA GRID license SKU due to Vender EOL.
23.08.2018	LAN_FC_IB	U. Lösch	Cosmetic change: PLAN EP MCX4-LX
23.08.2018	LAN_FC_IB	U. Lösch	Cosmetic change: PLAN EP XXV710-DA2
23.08.2018	LAN_FC_IB	U. Lösch	Deleted: PLAN EP QL45212
02.08.2018	GFX	U. Lösch	Change the support status for Tesla M10.
11.07.2018	CPU	Masakazu Matsubara	SKYLAKE-F SKU removed
03.07.2018	GFX	Takayuki Sasaki	Added new GPU cards
11.05.2018	LAN_FC_IB	U. Lösch	Deleted: max 4x for CX2580 M4. Node doesn't exist.
19.04.2018	LAN_FC_IB	U. Lösch	Added: PLAN EP X710-T4 4x10GBASE-T
21.03.2018	LAN_FC_IB	U. Lösch	SFP28 S26361-F4055-E/L701 added for PLAN EP
02.03.2018	HD_SSD / S26361-F5701/F5697-*	Tatsuya Sudou	added
16.02.2018	All CPU pages	Klaus-Dieter Ruf	Added updated restriction for air cooling (T50 V1.01)
15.02.2018	OS Support	Hiroyuki Ichiduka	Update
13.02.2018	LAN_FC_IB	U. Lösch	PLAN EP QL41212 & QL45611 added
31.01.2018	Xeon Silver 4114T	L. Meszaros	set to Special Release
23.01.2018	GFX	Takayuki Sasaki	Added new GPU cards
15.01.2018	HD_SSD / F5694-*/ F5543/F5582-E124	Tatsuya Sudou	added
05.01.2018	CPU CX25x0	Klaus-Dieter Ruf	Upgrade cooler kit corrected
04.01.2018	LAN_FC_IB	U. Lösch	Mellanox Ethernet 25, 40, 100 GbE re-entered
20.12.2017	CPU CX2560	Hiroyuki Ichiduka	[CPU_CX2560 tab]
18.12.2017	base HD_cage HD_SSD	Hiroyuki Ichiduka	[base tab] Added Basic units for CX2570 M4 AC S26361-K1614-V200 Modified Basic units for CX2570 M4 LC (SXM2) number S26361-K1616-V400 -> S26361-K1616-V500
14.12.2017	CPU CX25x0	Hiroyuki Ichiduka	[CPU_CX25x0 tab]
13.12.2017	Description	Hiroyuki Ichiduka	[Description tab]
13.11.2017	HD_SSD	Tatsuya Sudou	note for Dual microSD and DWPD for PCIe-SSD
25.10.2017	LAN_FC_IB section DynamicLOM	U. Lösch	PLAN EP MCX4-LX 2x25Gb OCP
25.10.2017	LAN_FC_IB section DynamicLOM	U. Lösch	PLAN EP XXV710-DA2 2x25Gb OCP
25.10.2017	LAN_FC_IB section 25GbE	U. Lösch	PLAN EP XXV710-DA2 2x25Gb
19.10.2017	HD_SSD	Tatsuya Sudou	S26361-F4045-E64 added
17.10.2017	CPU CX25x0	Klaus-Dieter Ruf	OMNI Path SKU update; additional remarks added
10.10.2017	base	Hiroyuki Ichiduka	1. Added "as soon as available" comment
04.10.2017	LAN_FC_IB	U. Lösch	Intel Ethernet 25GbE order number added
04.10.2017	LAN_FC_IB	U. Lösch	Cavium Ethernet 25GbE order number added
04.10.2017	LAN_FC_IB	U. Lösch	Mellanox Ethernet strikethrough, wait for December
29.09.2017	LAN_FC_IB	Atsushi Iwata	S26361-F5651-L460 added
29.09.2017	LAN_FC_IB	Atsushi Iwata	S26361-F5651-E460; Supported system name
26.09.2017	RAM	Klaus-Dieter Ruf	RAM page updated
26.09.2017	HD_cage	Tatsuya Sudou	added information on HDD cage and dummy
22.09.2017	CPU (CX2550/2560/2570)	L. Meszaros	new extra sheet for every node type
22.09.2017	HD_SSD	Tatsuya Sudou	F5614/F5617-*/ F5588-E240/E480 removed
15.09.2017	LAN	U. Lösch	Cosmetic change DynamicLoM: cages and optical
15.09.2017		Hiroyuki Ichiduka	[base tab] [LAN_FC_IB tab]
12.09.2017	All tab	Hiroyuki Ichiduka	deleted the strikethrough part
11.09.2017	LAN_FC_IB sheet tab	Hiroyuki Ichiduka	corrected the explanation of S26361-F5651-E460

08.09.2017	CPU tab	Hiroyuki Ichiduka	corrected CPU function
05.09.2017		Hiroyuki Ichiduka	[CPU tab]
05.09.2017	CPU tab	Hiroyuki Ichiduka	Added 100Gb PHY card 1 port Omni Path
31.08.2017	LAN FC IB sheet tab	Atsushi Iwata	corrected order code of IB 100GB card.
16.08.2017	Description sheet tab	Hiroyuki Ichiduka	Added Installing condition by power supply
09.08.2017	Base unit for CX2560 M4 LC	Masakazu Matsubara	Order codes of CX2560 M4 Base unit corrected as
31.07.2017	GFX	Takayuki Sasaki	Update GRID SW licenses.
27.07.2017		Ikkei Kinouchi	[LAN Components]
24.07.2017	HD SSD / S26361-F5675-* / F5531-E590	Tatsuya Sudou	added
21.07.2017	HD SSD / S26361-F5648-* / PCIe SSD	Tatsuya Sudou	codes modified / DWPD corrected
20.07.2017	LAN	U. Lösch	Added: 10GbE Ethernet adapter X710-DA4, 4-Ports,
19.07.2017	LAN	U. Lösch	Added: 25/40/100GbE Ethernet adapters, Mellanox
19.07.2017		U. Lösch	Inserted: Order numbers for X710-DA4 10GbE Ethernet
22.06.2017		Ikkei Kinouchi	Sales order number added for below.
15.06.2017		Ikkei Kinouchi	Remark for max memory capacity added (>768GB/CPU
12.06.2017		Ikkei Kinouchi	Sales order number added for below.
08.06.2017		Ikkei Kinouchi	Sales order number added for below.
21.05.2017		Ikkei Kinouchi	Updated for below
02.05.2017		Ikkei Kinouchi	Updated
28.03.2017		Ikkei Kinouchi	Updated
05.03.2017		Ikkei Kinouchi	Updated
05.02.2017		Ikkei Kinouchi	Updated
25.12.2016		Ikkei Kinouchi	Updated of #qty of option card
19.12.2016		Ikkei Kinouchi	Updated
02.11.2016		Ikkei Kinouchi	First Draft