



FUJITSU Server

PRIMEQUEST 3800B

System Configuration Guide

January 2020

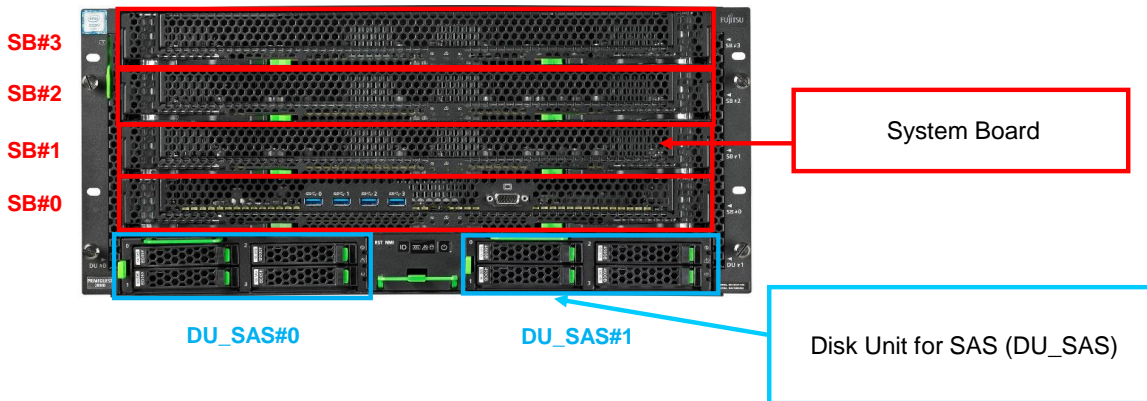
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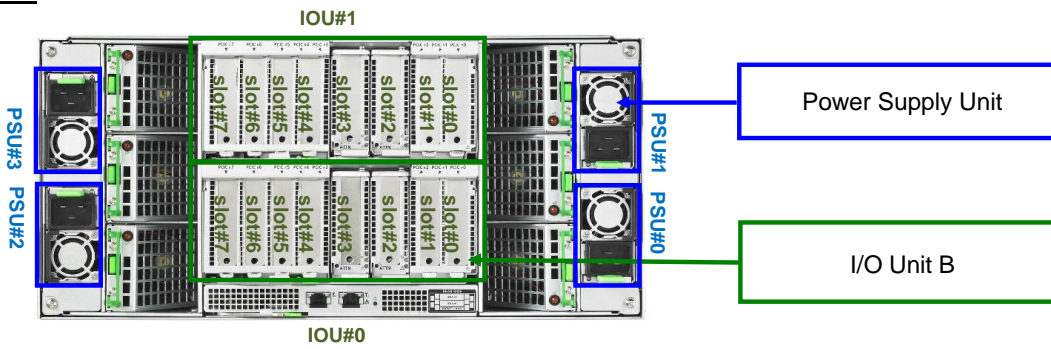
1. Overview

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Front side

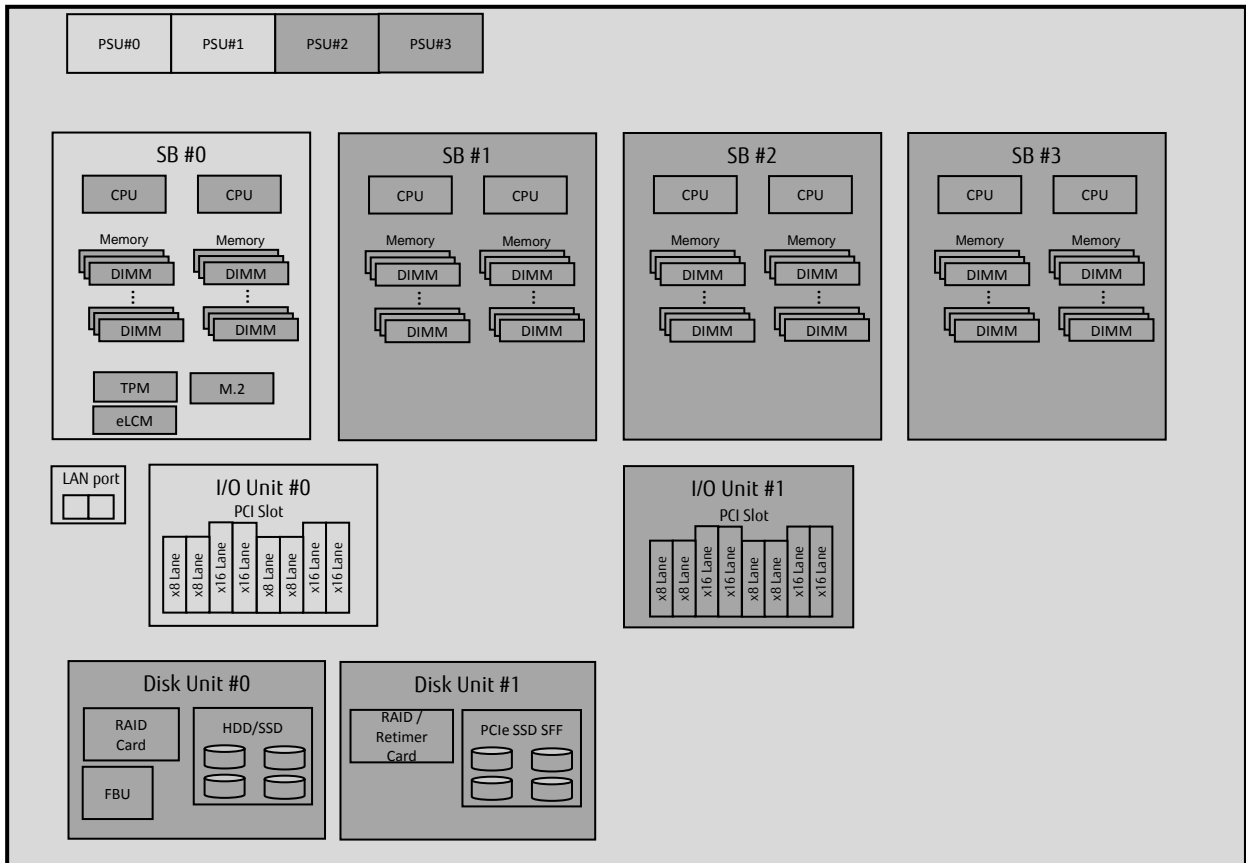


Rear side



Configuration diagram

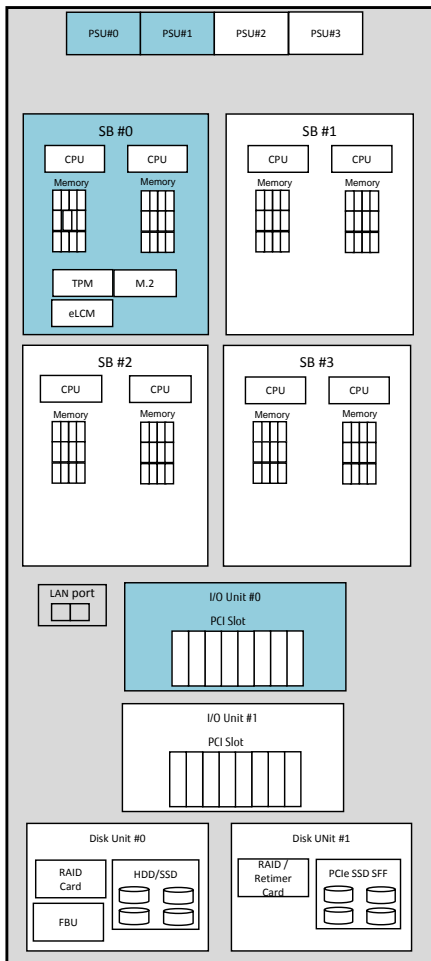
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Light gray color components are included in a Base Unit.
Dark gray color components are optional.

2.Base Unit

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Part Numbers Legend:

Part numbers:

MC-***** is a Build-to-Order (BTO) option to be assembled with a Base Unit

MCX***** is an option to be shipped separately from a Base Unit (Loose Delivery)

The following options are NOT included in the Base Unit.
 - CPU, Memory, power cord

The following components are included in the Base Unit.
 - 1x System Board
 - 1x I/O Unit
 - 2x PSUs
 - 1x Rack Mount Kit

PRIMEQUEST 3800B Base Unit

MCJ3AC111B

- Rack mount type
- 1x System Board is included in the Base Unit, Max. 4x System Boards can be mounted.
- 1x I/O Unit is included in the Base Unit, Max. 2x I/O Units can be mounted.
- PCI Boxes cannot be connected.
- 1x Management LAN
- 1x 1GbE (RJ45) (Shared LAN)
- 2x PSUs are included in the Base Unit, Max. 4x PSUs can be mounted.
- 6x Fan units are included in the Base Unit with redundancy.
- Power cords need to be ordered. The quantity is equal to the quantity of PSU.
- Rack space : 5U

Cool-safe Advanced Thermal Design

MC-0PTH2

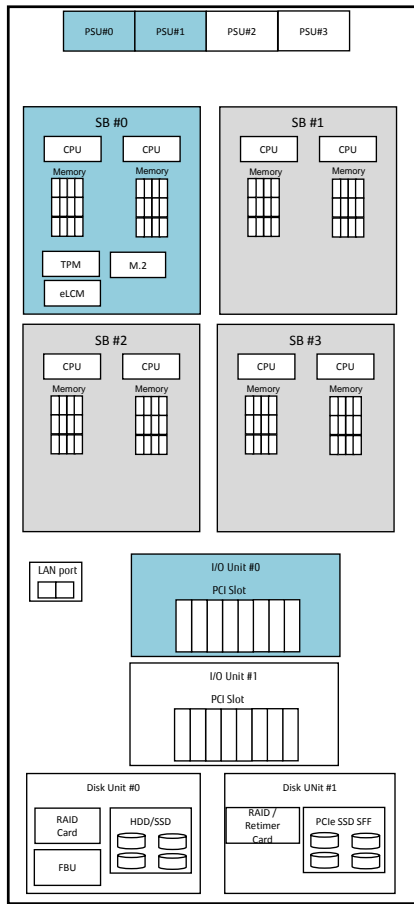
Operating temperature of up to 40°C

When this option is selected, CPU with TDP 205W cannot be installed.

System Board

3. System Board

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1x System Board is included in the Base unit.
Max. 4x System Boards can be mounted per Base unit.

System Board
MC-3HSBA1B / MCX3HSBA1B (LD)
 - The System Board does not include a security chip called TPM.
 - Neither CPU nor memory module is included. CPU and memory need to be ordered separately.
 - 2 x CPUs and min. 2 x memory modules (4 x DIMMs) need to be mounted per System Board.
 - Max. 12 x memory modules (24 x DIMMs) can be mounted.

The following options can be installed only in System Board #0.

M.2 Flash Device
MC-5FB751 / MCX5FB751 (LD)
 - M.2 SATA 240GB
 - Max 2 x M.2 Flash Devices can be mounted.
 - DWPD : 1.5
 - Cannot be mounted with MC*5FB721 / MC*5FA411

M.2 Flash Device (VMware)
MC-5FB741 / MCX5FB741 (LD)
 - M.2 SATA 240GB for VMware ESXi boot
 - 1 x M.2 Flash Device can be mounted.
 - Cannot be mounted with MC*5FB731 / MC*5FA411

M.2 Flash Device 480GB
MC-5FB771 / MCX5FB771 (LD)
 - M.2 SATA 480GB except VMware
 - Max 2 x M.2 Flash Device can be mounted.
 - DWPD : 1.5
 - Cannot be mounted with MC*5FA411

USB Flash Device 64GB Dual
MC-5FA411 / MCX5FA411 (LD)
 - Hardware-mirrored (2x MicroSD) USB flash boot device
 - One USB Flash Device can be mounted.
 - Cannot be mounted with MC*5FB721 / MC*5FB731

eLCM Activation License
MC-6KMA21 / MCX6KMA21 (LD)
 - For PRIMEQUEST 3800B
 - One License per system

TPM module V2.0
 MC-6HTP31 / MCX6HTP31(LD)
 - Available except for China
 - One for System board

→ CPU

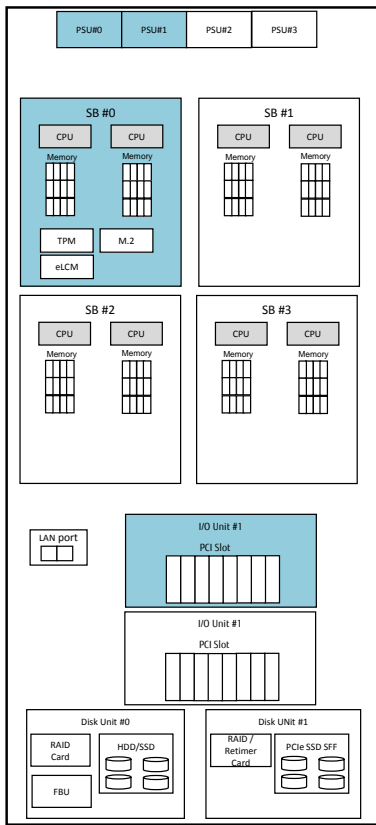
Available combination of CPU and memory per System Board

Memory in units of two DIMMs	Number of CPU	
	1	2
1	C	C
2	C	A
3	C	B
~	C	B
12	C	B

A : The combination is available. The quantity of memory is the minimum quantity.
 B : The combination is available.
 C : The combination is NOT available.
 * 2x CPUs need to be mounted on each System Board.

4.CPU

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2 x CPUs need to be mounted per System Board.
All CPUs have to be the same type.

*(Number of cores / Frequency / Max. memory per CPU / TDP)

- Intel® Xeon® Platinum 8180M Processor (28C/2.5GHz/1.5TB/205W)
MC-3BFA11B / MCX3BFA11B(LD)
- 2x CPUs per System Board., Max. 1.5TB memory per CPU
- Intel® Xeon® Platinum 8180 Processor (28C/2.5GHz/768GB/205W)
MC-3BFA21B / MCX3BFA21B(LD)
- 2x CPUs per System Board., Max. 768GB memory per CPU
- Intel® Xeon® Platinum 8176M Processor (28C/2.1GHz/1.5TB/165W)
MC-3BFB11B / MCX3BFB11B(LD)
- 2x CPUs per System Board., Max. 1.5TB memory per CPU
- Intel® Xeon® Platinum 8176 Processor (28C/2.1GHz/768GB/165W)
MC-3BFB21B / MCX3BFB21B(LD)
- 2x CPUs per System Board., Max. 768GB memory per CPU
- Intel® Xeon® Platinum 8170M Processor (26C/2.1GHz/1.5TB/165W)
MC-3BFC21B / MCX3BFC21B(LD)
- 2x CPUs per System Board., Max. 1.5TB memory per CPU
- Intel® Xeon® Platinum 8170 Processor (26C/2.1GHz/768GB/165W)
MC-3BFC11B / MCX3BFC11B(LD)
- 2x CPUs per System Board., Max. 768GB memory per CPU
- Intel® Xeon® Platinum 8164 Processor (26C/2GHz/768GB/150W)
MC-3BFD11B / MCX3BFD11B(LD)
- 2x CPUs per System Board., Max. 768GB memory per CPU
- Intel® Xeon® Platinum 8168 Processor (24C/2.7GHz/768GB/205W)
MC-3BFE11B / MCX3BFE11B(LD)
- 2x CPUs per System Board., Max. 768GB memory per CPU
- Intel® Xeon® Platinum 8160M Processor (24C/2.1GHz/1.5GB/150W)
MC-3BFF11B / MCX3BFF11B(LD)
- 2x CPUs per System Board., Max. 1.5TB memory per CPU
- Intel® Xeon® Platinum 8160 Processor (24C/2.1GHz/768GB/150W)
MC-3BFF21B / MCX3BFF21B(LD)
- 2x CPUs per System Board., Max. 768GB memory per CPU
- Intel® Xeon® Platinum 8153 Processor (16C/2.0GHz/768GB/125W)
MC-3BFG11B / MCX3BFG11B(LD)
- 2x CPUs per System Board., Max. 768GB memory per CPU
- Intel® Xeon® Platinum 8158 Processor (12C/3.0GHz/768GB/150W)
MC-3BFH11B / MCX3BFH11B(LD)
- 2x CPUs per System Board., Max. 768GB memory per CPU
- Intel® Xeon® Platinum 8156 Processor (4C/3.6GHz/768GB/105W)
MC-3BFJ11B / MCX3BFJ11B(LD)
- 2x CPUs per System Board., Max. 768GB memory per CPU

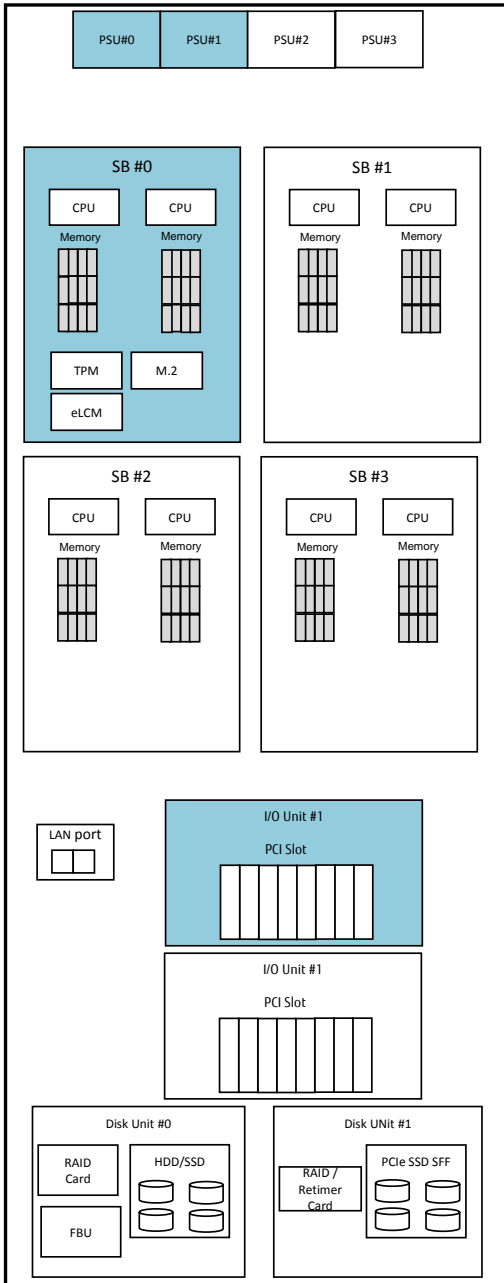
CPU mounting condition

# of SBs in one Base Unit	# of CPUs in one Base Unit
1SB	2
2SB	4
3SB	6
4SB	8

Memory

5.Memory

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At least one option needs to be mounted per CPU.

16GB memory (8GB DDR4 DIMM x 2)

MC-3CD531B / MCX3CD531B (LD)

- Min. 1x Memory module (2 x DIMMs) needs to be mounted per CPU.
- Max. 6x Memory modules (12 x DIMMs) can be mounted per CPU.
- 2x 8GB 2666MHz 1Rx4 RDIMMs

32GB memory (16GB DDR4 DIMM x 2)

MC-3CD641B / MCX3CD641B (LD)

- Min. 1x Memory module (2 x DIMMs) needs to be mounted per CPU.
- Max. 6x Memory modules (12 x DIMMs) can be mounted per CPU.
- 2x 16GB 2666MHz 1Rx4 RDIMMs

32GB memory (16GB DDR4 DIMM x 2) *1

MC-3CD651B / MCX3CD651B (LD)

- Min. 1x Memory module (2 x DIMMs) needs to be mounted per CPU.
- Max. 6x Memory modules (12 x DIMMs) can be mounted per CPU.
- 2x 16GB 2666MHz 2Rx4 RDIMMs

***1 Special release option.
Please contact a local sales representative when needed.**

64GB memory (32GB DDR4 DIMM x 2)

MC-3CD741B / MCX3CD741B (LD)

- Min. 1x Memory module (2 x DIMMs) needs to be mounted per CPU.
- Max. 6x Memory modules (12 x DIMMs) can be mounted per CPU.
- 2x 32GB 2666MHz 2Rx4 RDIMMs

128GB memory (64GB DDR4 DIMM x 2)

MC-3CC821B / MCX3CC821B (LD)

- Min. 1x Memory module (2 x DIMMs) needs to be mounted per CPU.
- Max. 6x Memory modules (12 x DIMMs) can be mounted per CPU.
- 2x 64GB 2666MHz 4Rx4 LRDIMMs

128GB memory (64GB DDR4 DIMM x 2)

MC-3CD831B / MCX3CD831B (LD)

- Min. 1x Memory module (2 x DIMMs) needs to be mounted per CPU.
- Max. 6x Memory modules (12 x DIMMs) can be mounted per CPU.
- 2x 64GB 2666MHz 4Rx4 RDIMMs

256GB memory (128GB DDR4 DIMM x 2) *2

MC-3CD921B / MCX3CD921B (LD)

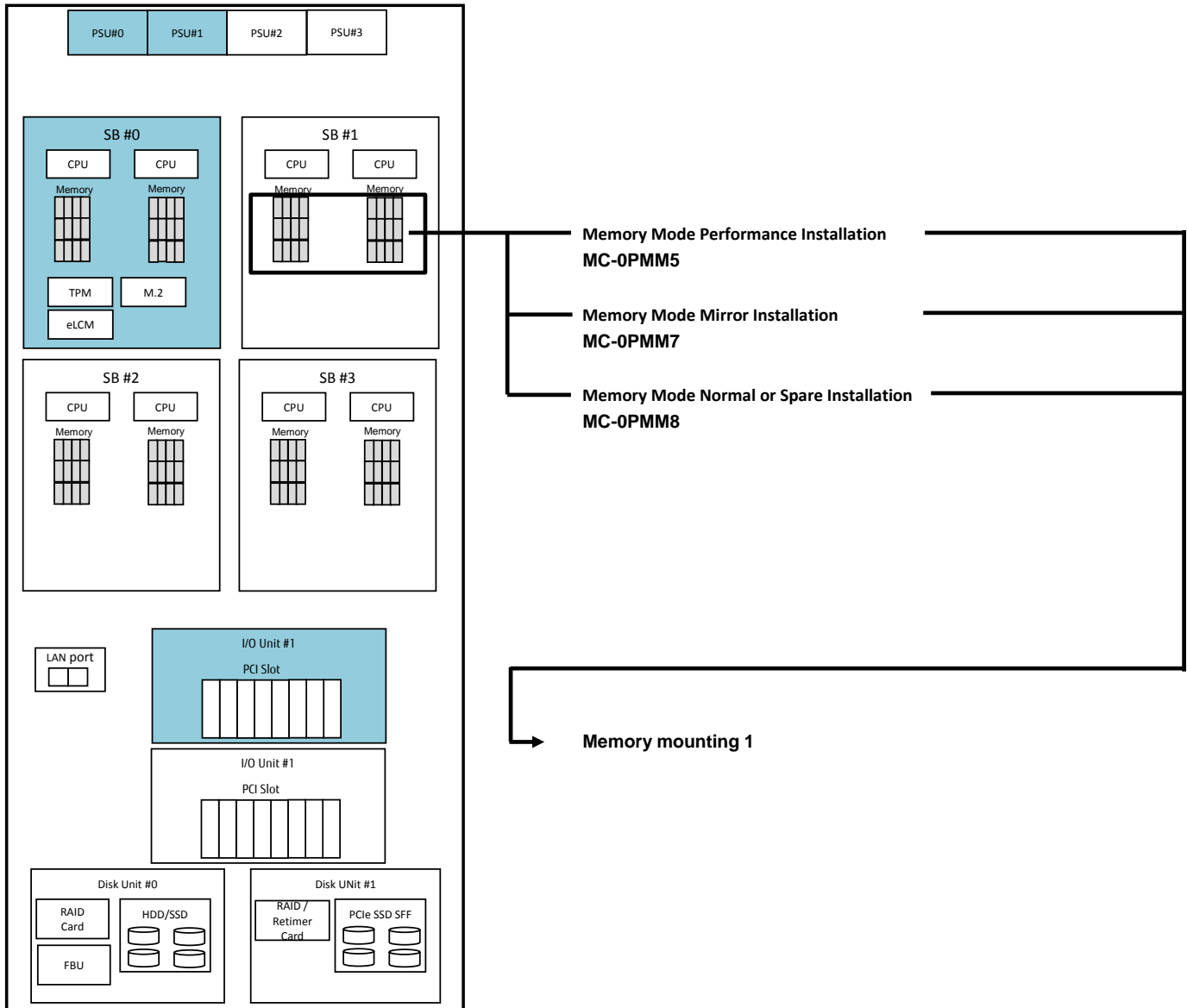
- Min. 1x Memory module (2 x DIMMs) needs to be mounted per CPU.
- Max. 6x Memory modules (12 x DIMMs) can be mounted per CPU.
- 2x 128GB 2666MHz 4Rx4 RDIMMs

**2* Long lead time option.
Please contact a local sales representative when needed.**

→ Memory Mode

Memory Mode

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Memory Mounting 1

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1. Memory

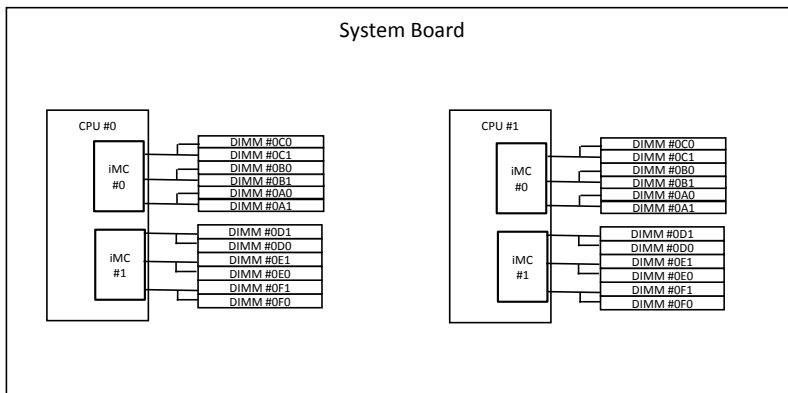
- (1) Memory module for PRIMEQUEST is composed of 2 x DIMMs.
- (2) At least 2 DIMMs have to be installed in one CPU (4 DIMMs in one SB) in Normal mode and Spare mode, 4 DIMMs have to be installed in one CPU (8 DIMMs in one SB) in Mirror mode.
- (3) Up to 12 DIMMs can be installed in each CPU.

2. Memory Mounting Conditions

- (1) A mixture of different type of memory is not possible in the system.
The exception is a combination of 16GB RDIMM and 32GB RDIMM, which is possible to mix in the system.
- (2) Units of memory expansions : One set (2 DIMMs) for one CPU in Normal Mode and Spare Mode, 2 sets (4 DIMMs) for one CPU in Mirror Mode.

3. Maximum Memory Capacity

Operating System	Max. Memory Capacity (TB)
Microsoft® Windows Server® 2012 R2 (Standard/Datacenter) Microsoft® Hyper-V Server 2012 R2	4
Microsoft® Windows Server® 2016 (Standard / Datacenter) Microsoft® Hyper-V Server 2016	12
Red Hat® Enterprise Linux® 7.3 / 7.4 / 7.5 (incl. KVM)	12
SUSE® Linux Enterprise Server 12SP2 / 12SP3 (incl. KVM/XEN)	12
SUSE® Linux Enterprise Server 15 (incl. KVM/XEN)	12
VMware vSphere® 6.5 Patch01 / 6.5U1 / 6.5U2	12
VMware vSphere® 6.7	12



└─ Memory Mounting 2

Memory Mounting 2

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DIMM mounting order on System Board

The memory needs to be mounted from a small number in accordance with the chart below.

Order Code	Memory Mode	Lockstep	CPU#0 DIMM Slot						CPU#1 DIMM Slot					
			iMC#0			iMC#1			iMC#0			iMC#1		
			0A0	0B0	0C0	0D0	0E0	0F0	1A0	1B0	1C0	1D0	1E0	1F0
MC-OPMM5 : Memory Mode Performance Installation	Normal / Performance	Disabled	0A1		0C1	0D1	0E1	0F1	1A1	1B1	1C1	1D1	1E1	1F1
			1	2	4(*1) 8	1	2	4(*1) 8	1	3	5(*1) 9	1	3	5(*1) 9
MC-OPMM8 : Memory Mode Normal or Spare Installation	Spare	Enabled	1	4	8	2	6	10	1	5	9	3	7	11
			1	4	8	2	6	10	1	5	9	3	7	11
MC-OPMM7 : Memory Mode Mirror Installation	Mirror	Disabled / Enabled	1	1	4	1	1	4	1	1	5	1	1	5
			2	2	4	2	2	4	3	3	5	3	3	5

(*1)(*2) In the case of 4 DIMMs in one iMC, remove DIMM installed in (*1) slot and then install DIMM to (*2) slot.

Memory Mixed condition

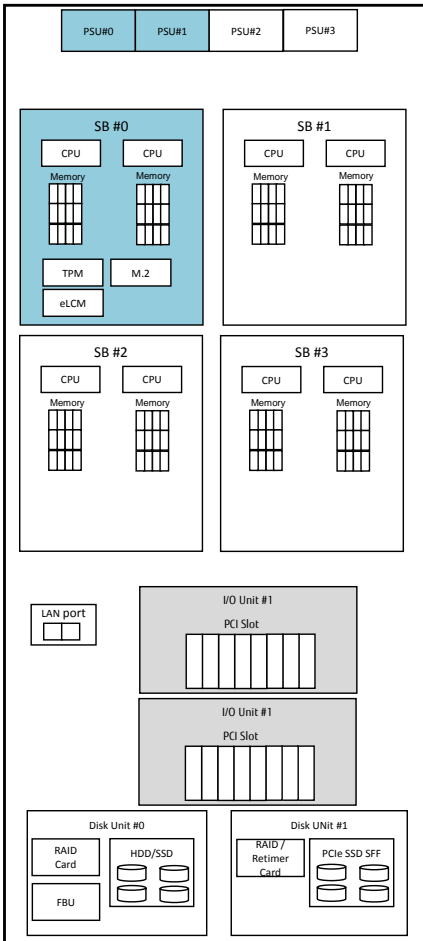
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DIMM mixed installation condition on System Board.

	16GB Memory (8GB R-DIMM x2)	32GB Memory (16GB R-DIMM x2, 1Rx4)	32GB Memory (16GB R-DIMM x2, 2Rx4)	64GB Memory (32GB R-DIMM x2)	128GB Memory (64GB LR-DIMM x2)	128GB Memory (64GB R-DIMM x2, 3DS)	256GB Memory (128GB R-DIMM x2, 3DS)
16GB Memory (8GB R-DIMM x2)	Yes	No	No	No	No	No	No
32GB Memory (16GB R-DIMM x2, 1Rx4)		Yes	No	Yes	No	No	No
32GB Memory (16GB R-DIMM x2, 2Rx4)			Yes	No	No	No	No
64GB Memory (32GB R-DIMM x2)				Yes	No	No	No
128GB Memory (64GB LR-DIMM x2)					Yes	No	No
128GB Memory (64GB R-DIMM x2, 3DS)						Yes	No
256GB Memory (128GB R-DIMM x2, 3DS)							Yes

6.I/O Unit

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I/O Unit B

1x I/O Unit B is included in the Base unit,
Max. 2x I/O Unit B can be mounted per Base unit.

I/O Unit B

MC-3HUX61B / MCX3HUX61B (LD)

- 1x I/O Unit B is included in the Base unit,
Max. 2x I/O units can be mounted.
- 8x PCIe slots Low Profile (4 slots are useable by one SB installed):
 - 2x PCIe Gen3 16Lane
 - 2x PCIe Gen3 16Lane (hot pluggable slots)
 - 4x PCIe Gen3 8Lane

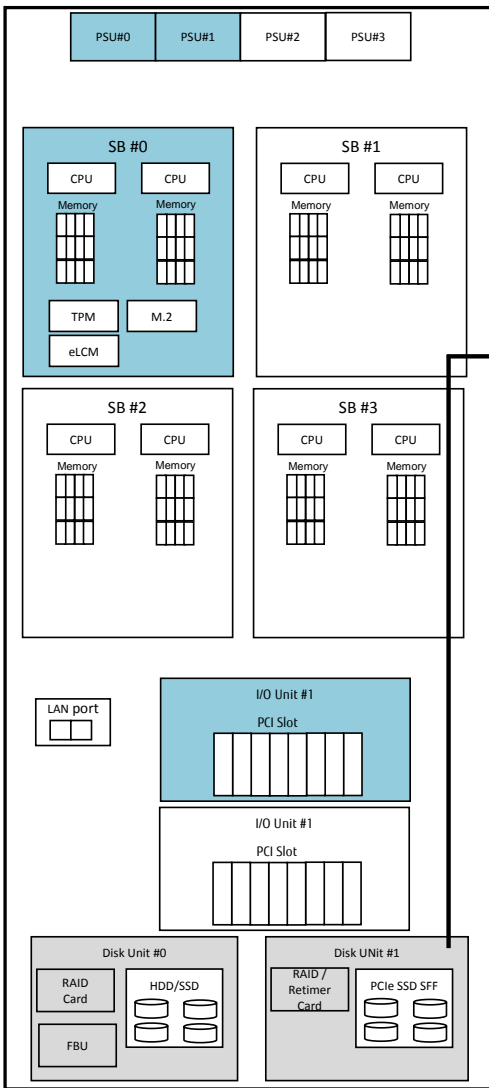
Disk Unit

PCIe connection of PRIMEQUEST 3800B between SB, I/O Unit and Disk Unit.

		SB#0		SB#1		SB#2		SB#3	
		CPU#0	CPU#1	CPU#0	CPU#1	CPU#0	CPU#1	CPU#0	CPU#1
I/O Unit B#0	Slot#0	8Lane	enabled						
	Slot#1	8Lane	enabled						
	Slot#2	16Lane hotplug		enabled					
	Slot#3	16Lane hotplug		enabled					
	Slot#4	8Lane			enabled				
	Slot#5	8Lane			enabled				
	Slot#6	16Lane			enabled				
I/O Unit B#1	Slot#7	16Lane			enabled				
	Slot#0	8Lane				enabled			
	Slot#1	8Lane				enabled			
	Slot#2	16Lane hotplug					enabled		
	Slot#3	16Lane hotplug					enabled		
	Slot#4	8Lane						enabled	
	Slot#5	8Lane						enabled	
Slot#6	16Lane						enabled		
Disk Unit#0			enabled						
Disk Unit#1					enabled				
									enabled

7. Disk Unit

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EP420i and EP540i/580i are not allowed to be populated together in the system.



Disk Unit

Max. 2x Disk Units can be mounted per Base Unit.

**Disk Unit for SAS (DU_SAS)
MC-5HDU31B / MCX5HDU31B (LD)**

- Max. 2x Disk Units per Base Unit.
- 1x RAID Controller card per Disk Unit needs to be mounted.
- Max 4x HDD/SSD can be mounted per Disk Unit.

Option for Disk Unit SAS (DU_SAS)

**SAS RAID Controller Card (2GB Cache, EP420i)
MC-0JSRA1 / MCX0JSRA1 (LD)**

- One RAID Controller card allows mounting of 4x disk drives such as HDD or SSD.
- 12Gbps for each disk drive. 2GB of cache memory
- RAID 0/1/1E/5/6/10 and hot spare supported

**Flash Back-up Unit
MC-0JFB61 / MCX0JFB61 (LD)**

- Flash Backup Unit for RAID Controller with cache memory.

**RAID Advanced Software Options
MC-0KLA51 / MCX0KLA51 (LD)**
License Activation Key for CacheCade 2.0 for PRAID EP420i / 420e

**SAS RAID Controller Card (4GB Cache, EP540i)
MC-0JSR71 / MCX0JSR71 (LD)**

- One RAID Controller card allows mounting of 4x disk drives such as HDD or SSD.
- 12Gbps for each disk drive. 4GB of cache memory
- RAID 0/1/1/5/6/10 and hot spare supported

**SAS RAID Controller Card (8GB Cache, EP580i)
MC-0JSR81 / MCX0JSR81 (LD)**

- One RAID Controller card allows mounting of 4x disk drives such as HDD or SSD.
- 12Gbps for each disk drive. 8GB of cache memory
- RAID 0/1/1/5/6/10 and hot spare supported

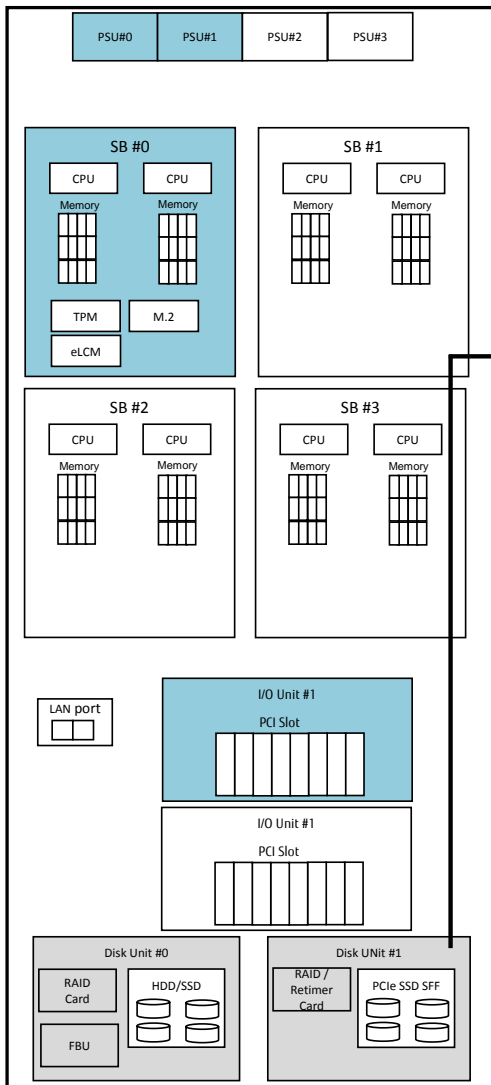
**Flash Back-up Unit
MC-0JFB41 / MCX0JFB41 (LD)**

- Flash Backup Unit for RAID Controller (EP5x0i) with cache memory.

→ Disk for HDD or SSD

7. Disk Unit

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EP420i and EP540i/580i are not allowed to be populated together in the system.



Disk Unit

Max. 2x Disk Units can be mounted per Base Unit.

Disk Unit for PCIe SFF

MC-5HDU61B / MCX5HDU61B (LD)

- Max. 2x Disk Units per Base Unit.
- 1x RAID Controller card per Disk Unit needs to be mounted.
- Max 4x PCIe-SSD SFF can be mounted per Disk Unit.

SAS RAID Controller Card (4GB Cache, EP540i)

MC-0JSR71 / MCX0JSR71 (LD)

- One RAID Controller card allows mounting of 4x disk drives such as PCIe-SSD SFF.
- 12Gbps for each disk drive. 4GB of cache memory
- RAID 0/1/1/5/6/10 and hot spare supported

SAS RAID Controller Card (8GB Cache, EP580i)

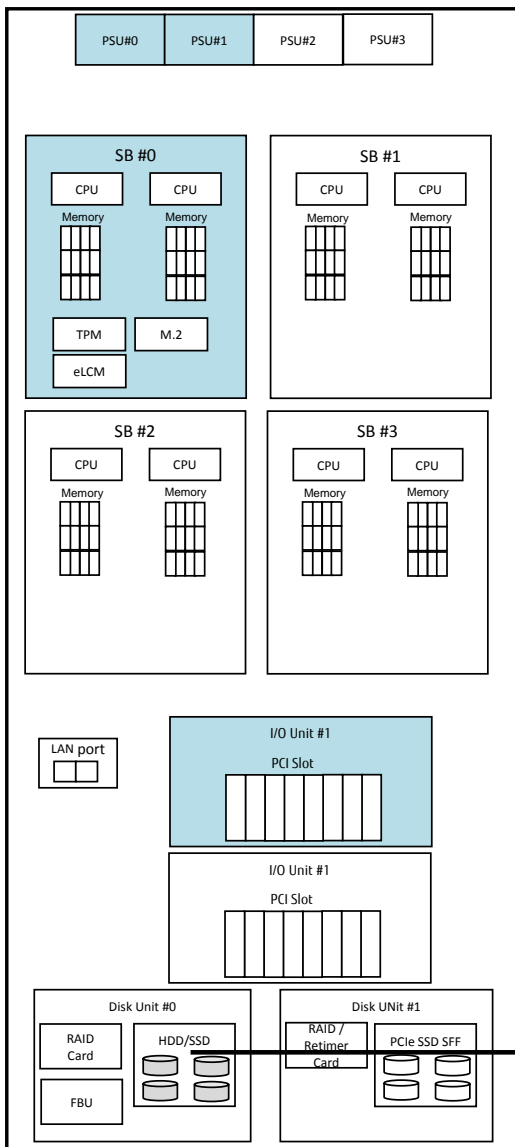
MC-0JSR81 / MCX0JSR81 (LD)

- One RAID Controller card allows mounting of 4x disk drives such as PCIe-SSD SFF.
- 12Gbps for each disk drive. 8GB of cache memory
- RAID 0/1/1/5/6/10 and hot spare supported

→ Disk for PCIe-SSD

8.HDD

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Max. 4 pcs of HDD/SSD can be mounted per the Disk Unit for SAS.

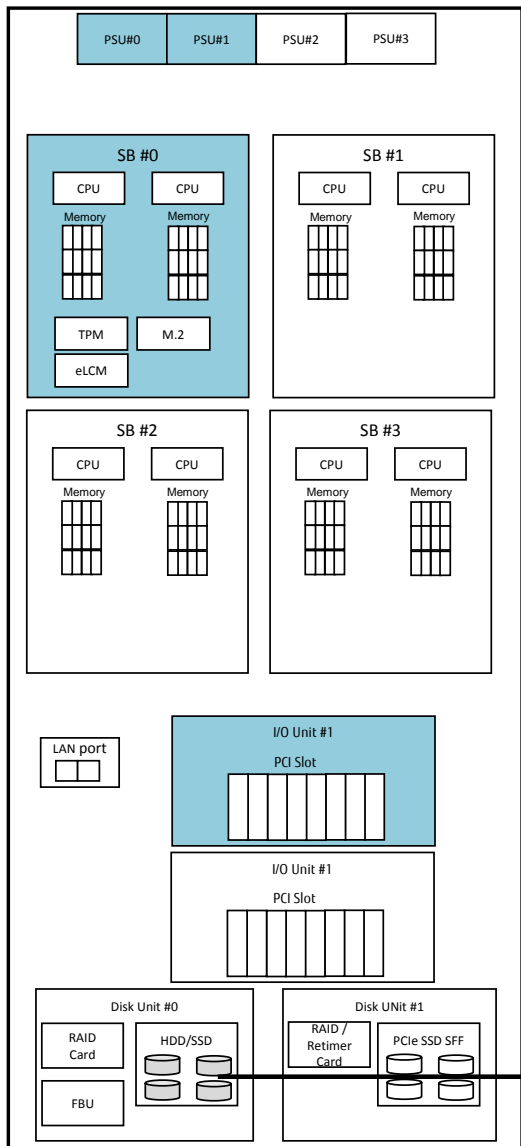
Option

- **300GB Internal HDD (15,000rpm)**
MC-5DS771 / MCX5DS771 (LD)
- 12Gbps, hot plug, 512n format
- **600GB Internal HDD (15,000rpm)**
MC-5DS961 / MCX5DS961 (LD)
- 12Gbps, hot plug, 512n format
- **900GB Internal HDD (15,000rpm)**
MC-5DSA51 / MCX5DSA51 (LD)
- 12Gbps, hot plug, 512n format
- **300GB Internal HDD (10,000rpm)**
MC-5DS781 / MCX5DS781 (LD)
- 12Gbps, hot plug, 512n format
- **600GB Internal HDD (10,000rpm)**
MC-5DS971 / MCX5DS971 (LD)
- 12Gbps, hot plug, 512n format
- **900GB Internal HDD (10,000rpm)**
MC-5DSA61 / MCX5DSA61 (LD)
- 12Gbps, hot plug, 512n format
- **1.2TB Internal HDD (10,000rpm)**
MC-5DSB41 / MCX5DSB41 (LD)
- 12Gbps, hot plug, 512n format
- **1.8TB Internal HDD (10,000rpm)**
MC-5DSC21 / MCX5DSC21 (LD)
- 12Gbps, hot plug, 512e format
- **2.4TB Internal HDD (10,000rpm)**
MC-5DSD11 / MCX5DSD11 (LD)
- SAS 12Gbps, hot plug, 512e format

→SSD

8.SSD

Max. 4 pcs of HDD/SSD can be mounted per the Disk Unit for SAS.



Option

<p>400GB SAS SSD MC-5DG821 / MCX5DG821 (LD) - 12Gbps, MLC, hot plug, DWPD: 10</p>	
<p>800GB SAS SSD MC-5DG921 / MCX5DG921 (LD) - 12Gbps, MLC, hot plug, DWPD: 10</p>	
<p>1.6TB SAS SSD MC-5DGA21 / MCX5DGA21 (LD) - 12Gbps, MLC, hot plug, DWPD: 10</p>	
<p>400GB SAS SSD MC-5DH821 / MCX5DH821 (LD) - SAS 12Gbps, hot plug, DWPD : 3</p>	
<p>800GB SAS SSD MC-5DH921 / MCX5DH921 (LD) - SAS 12Gbps, hot plug, DWPD : 3</p>	
<p>1.6TB SAS SSD MC-5DHA21 / MCX5DHA21 (LD) - SAS 12Gbps, hot plug, DWPD : 3</p>	
<p>3.2TB SAS SSD MC-5DHB21 / MCX5DHB21 (LD) - SAS 12Gbps, hot plug, DWPD : 3</p>	
<p>6.4TB SAS SSD MC-5DKG21 / MCX5DKG21 (LD) - SAS 12Gbps, hot plug, DWPD : 3</p>	

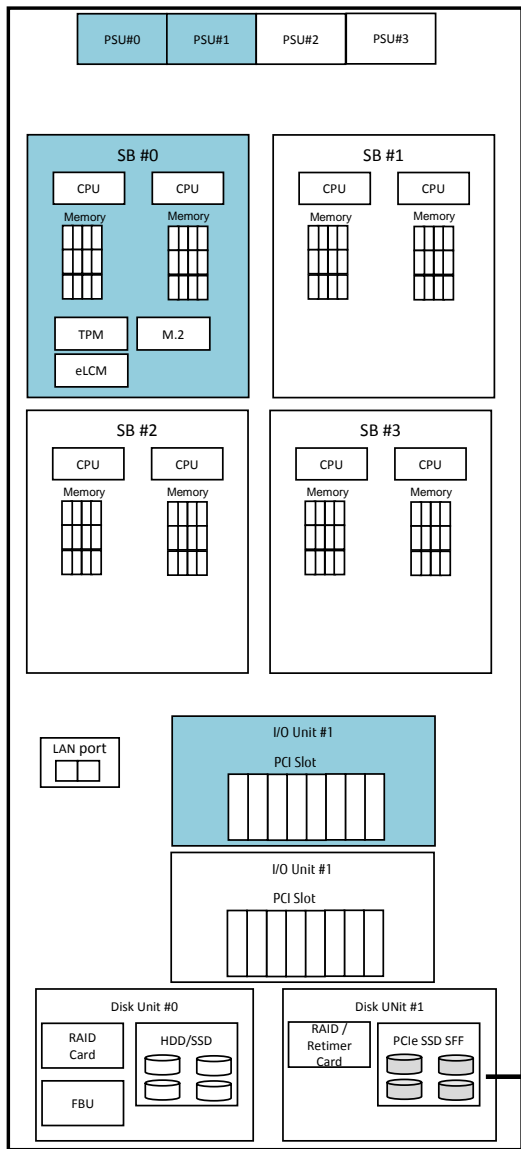
As flash memory cells are wearing parts, an SSD can only tolerate a limited number of write jobs. DWPD (Drive Write Per Day) is an indicator which specifies write endurance of an SSD. Depending on how the product is used, the number of writing times may reach the end of write endurance within the product lifespan. Product status can be confirmed by management tools such as iRMC Web-UI and Server View RAID Manager (SVRM).

→ PCIe-SSD

8.PCIE-SSD

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Max. 4 pcs of PCIe SSD can be mounted per the Disk Unit for PCIe SFF.



Option

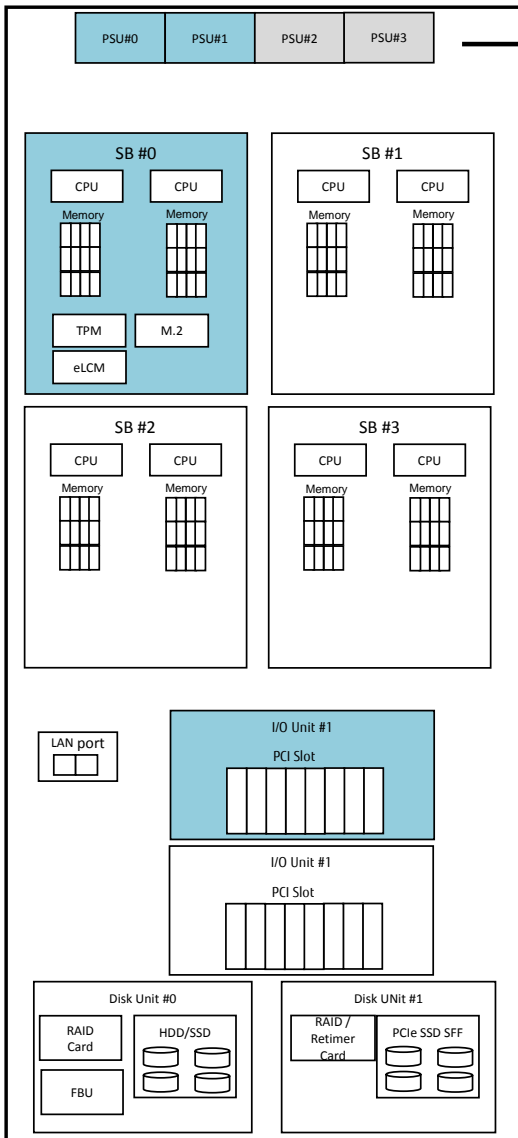
<p>1.6TB Solid State Drive PCIe-SSD SFF 1.6TB 3DWPD MC-5DKD21 / MCX5DKD21 (LD)</p>	
<p>3.2TB Solid State Drive PCIe-SSD SFF 3.2TB 3DWPD MC-5DKE21 / MCX5DKE21 (LD)</p>	
<p>6.4TB Solid State Drive PCIe-SSD SFF 6.4TB 3DWPD MC-5DKF21 / MCX5DKF21 (LD)</p>	

As flash memory cells are wearing parts, an SSD can only tolerate a limited number of write jobs. DWPD (Drive Write Per Day) is an indicator which specifies write endurance of an SSD. Depending on how the product is used, the number of writing times may reach the end of write endurance within the product lifespan. Product status can be confirmed by management tools such as iRMC Web-UI and Server View RAID Manager (SVRM).

PSU for Base Unit

9.PSU for Base Unit

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Power Supply Unit (PSU)

2x PSUs are included in the Base unit,
Max. 4x PSUs can be mounted.

200V Normal PSU

MC-5HPS71 / MCX5HPS71 (LD)

- 2x PSUs are included in the Base unit.
- Max. 4x PSUs can be mounted for PSU redundancy.
- 80PLUS® Platinum certified

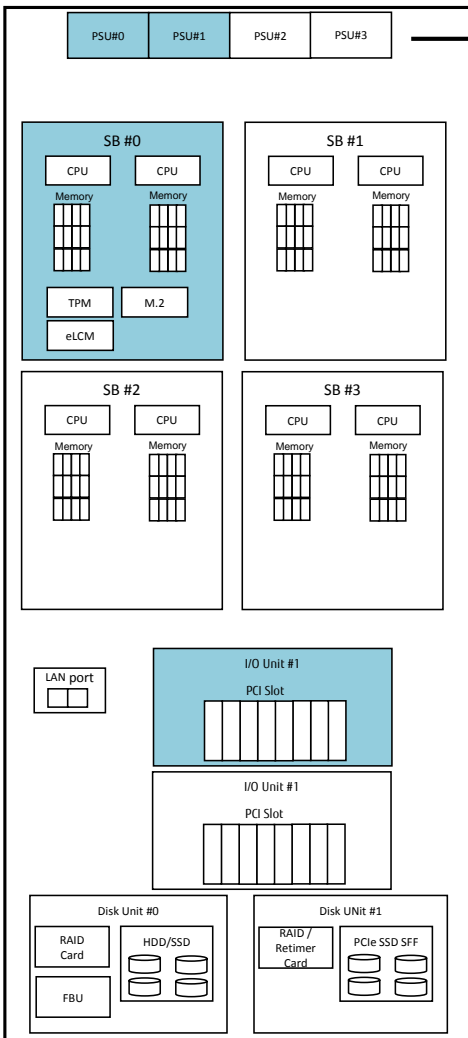
AC Power input	Redundancy	# of PSU	PSU Slots	Dual Power feed
240V	Not redundant	2	No restriction	No
	redundant	2+1	No restriction	Yes
	redundant	2+2	No restriction	

Dual power feed configuration will help to supply power even in the event of data center power feed failure and PSU failure.

Power Cords for Base Unit

Power Cords for Base Unit for APAC and Americas

January 2020



power cord

* The same quantity of Power Cords need to be ordered as that of PSU.

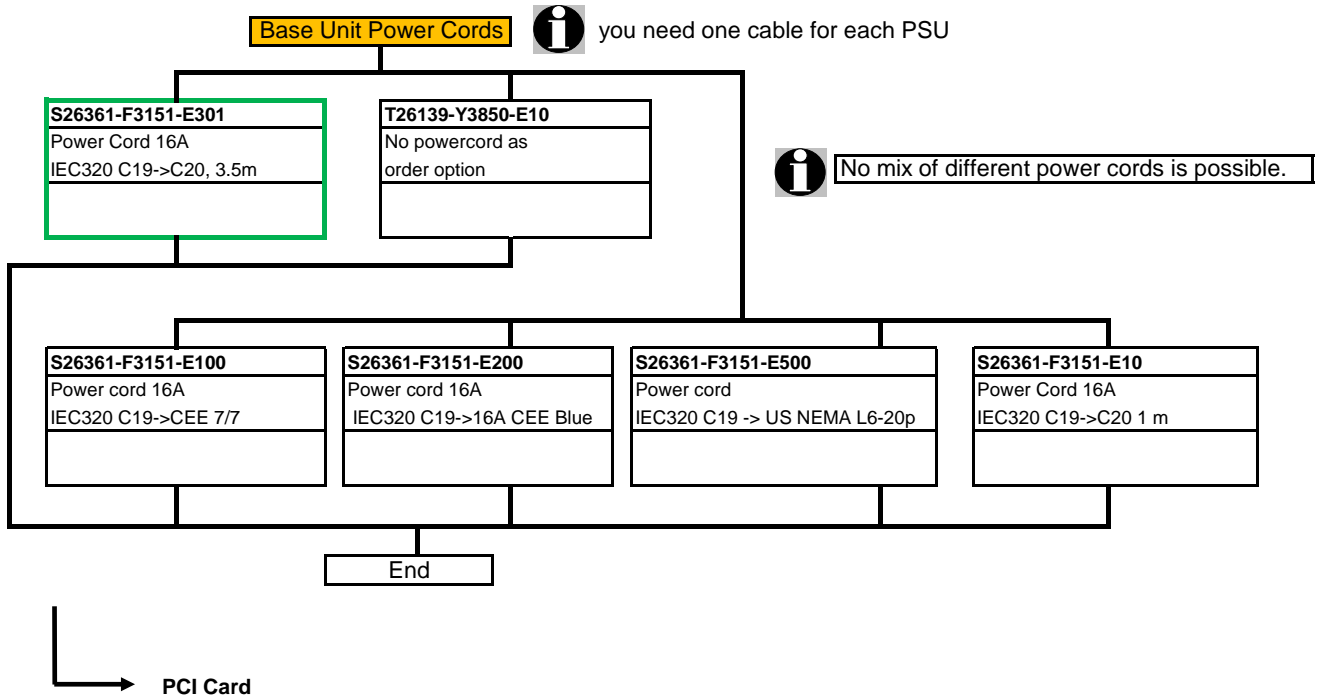
200V IEC power cord (3m)
MC-0HCB13 / MCX0HCB11 (LD)
 - IEC60320 C20, 3m
 - power cord x 1

200V IEC power cord (1m)
MC-0HCB11 / MCX0HCB11 (LD)
 - IEC60320 C20, 1m
 - power cord x 1

→ PCI Card

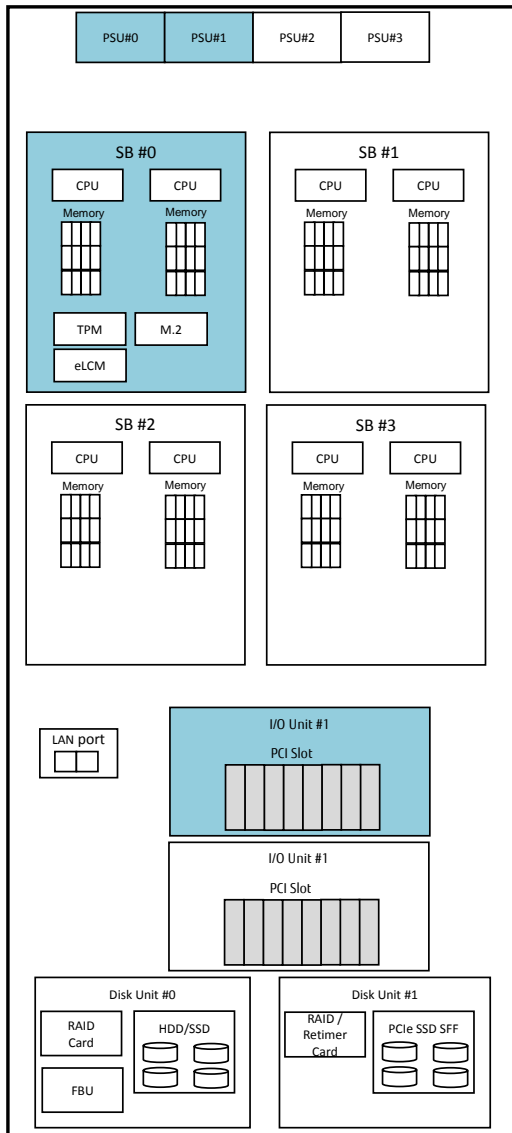
9. Power Cords for Base Unit for EMEA & India

January 2020



10. PCI Cards

January 2020



Max. 16 cards can be mounted in Base Unit.
 I/O Unit B : Max. 8 cards can be mounted per I/O Unit

- 2x PCIe Gen3 16Lane
- 2x PCIe Gen3 16Lane (hot pluggable slots)
- 4x PCIe Gen3 8Lane

**Single Channel 16Gbps Fibre Channel Card
 MC-0JFCF1 / MCX0JFCF1 (LD)**

- LPe31000, Low Profile

**Dual Channel 16Gbps Fibre Channel Card
 MC-0JFCG1 / MCX0JFCG1 (LD)**

- LPe31002, Low Profile

**Single Channel 32Gbps Fibre Channel Card
 MC-0JFCM1 / MCX0JFCM1 (LD)**

- LPe32000, Low Profile

**Dual Channel 32Gbps Fibre Channel Card
 MC-0JFCN1 / MCX0JFCN1 (LD)**

- LPe32002, Low Profile

**Single Channel 16Gbps Fibre Channel Card
 MC-0JFCP1 / MCX0JFCP1 (LD)**

- QLE2690, Low Profile

*** Total up to 16 ports with Qlogic FC.**

**Dual Channel 16Gbps Fibre Channel Card
 MC-0JFCQ1 / MCX0JFCQ1 (LD)**

- QLE2692, Low Profile

*** Total up to 16 ports with Qlogic FC.**

**Single Channel 32Gbps Fibre Channel Card
 MC-0JFCK1/ MCX0JFCK1 (LD)**

- QLE2740, Low Profile

*** Total up to 16 ports with Qlogic FC.**

**Dual Channel 32Gbps Fibre Channel Card
 MC-0JFCL1 / MCX0JFCL1 (LD)**

- QLE2742, Low Profile

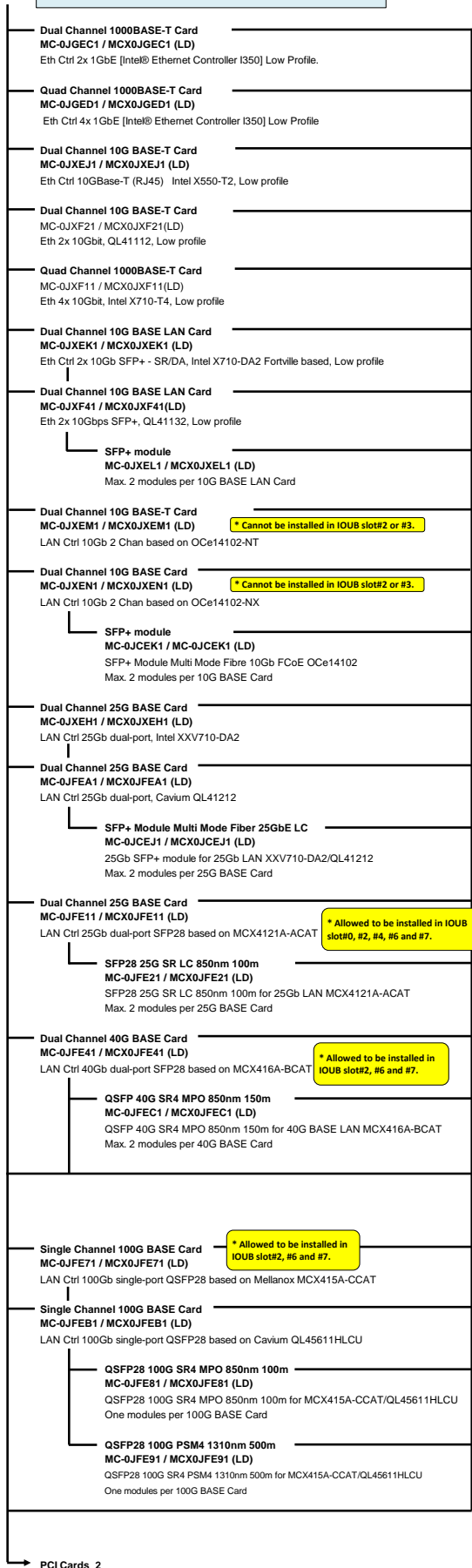
*** Total up to 16 ports with Qlogic FC.**

→ PCI Cards_1

PCI Cards_1

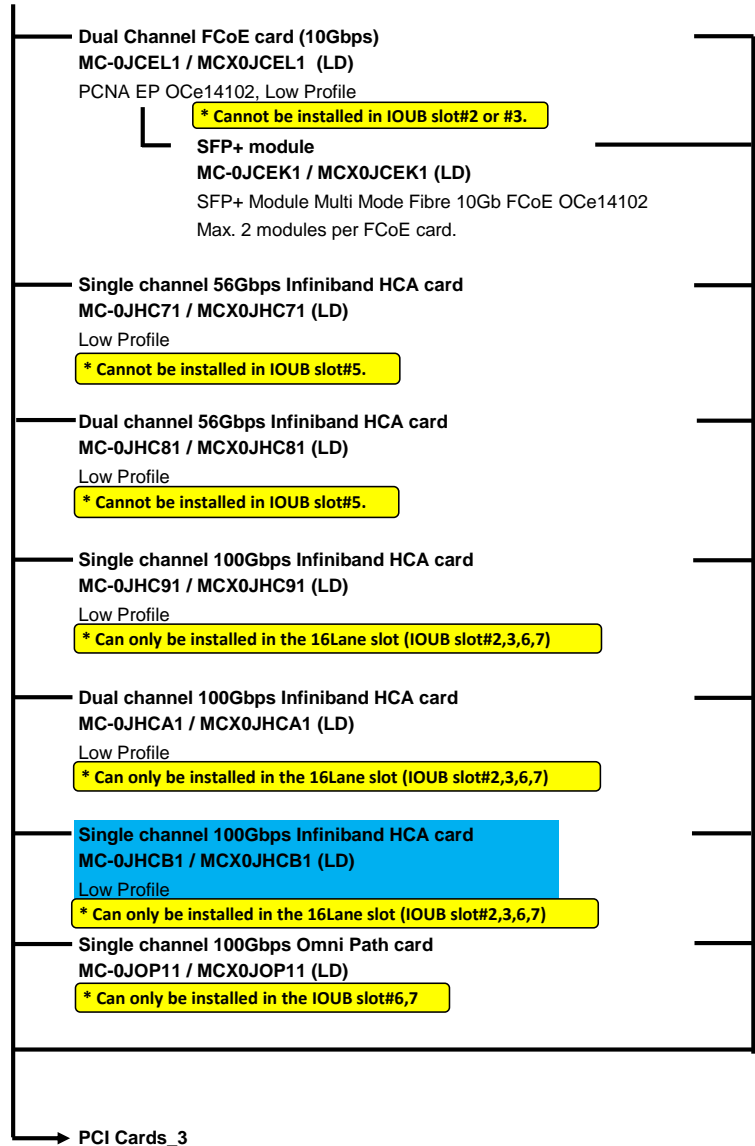
January 2020

Max. 16 cards can be mounted in Base Unit.
 I/O Unit B : Max. 8 cards can be mounted per I/O Unit
 - 2x PCIe Gen3 16Lane
 - 2x PCIe Gen3 16Lane (hot pluggable slots)
 - 4x PCIe Gen3 8Lane



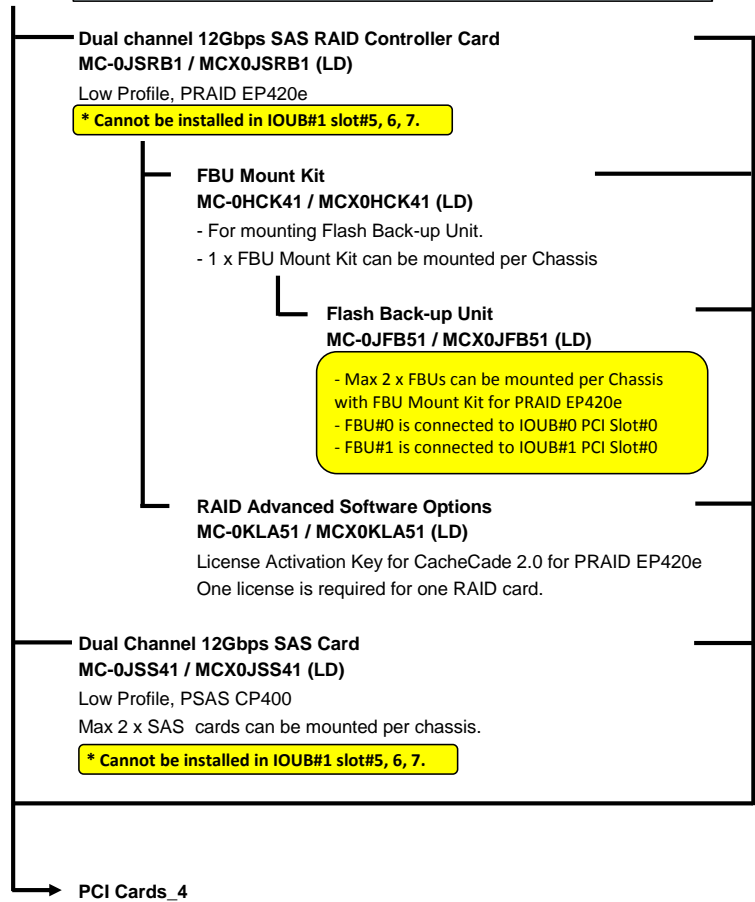
Max. 16 cards can be mounted in Base Unit.
 I/O Unit B : Max. 8 cards can be mounted per I/O Unit

- 2x PCIe Gen3 16Lane
- 2x PCIe Gen3 16Lane (hot pluggable slots)
- 4x PCIe Gen3 8Lane



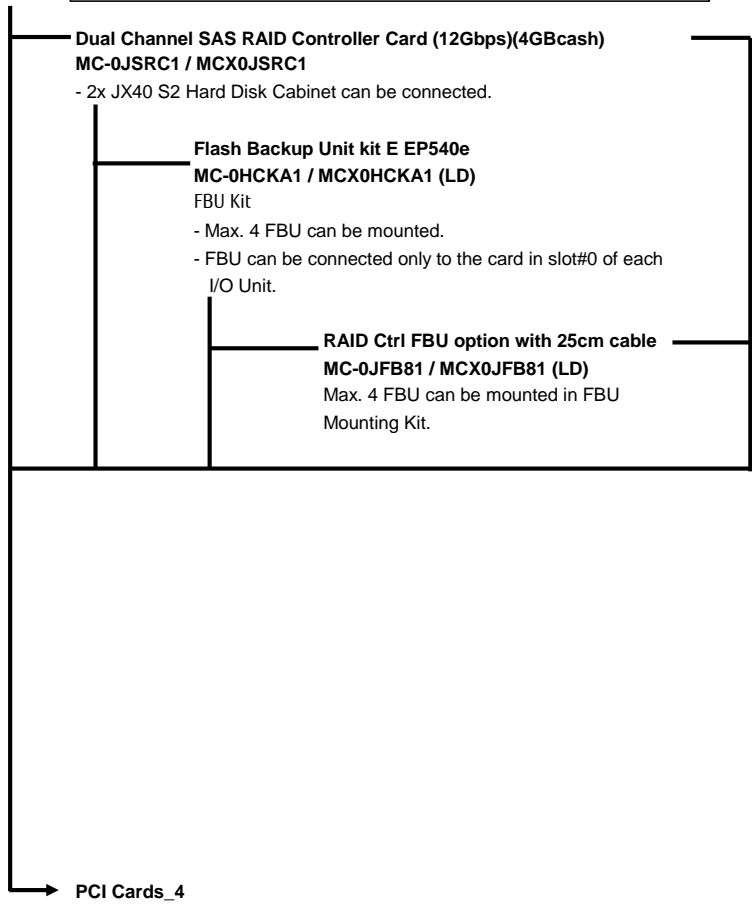
Max. 16 cards can be mounted in Base Unit.
 I/O Unit B : Max. 8 cards can be mounted per I/O Unit

- 2x PCIe Gen3 16Lane
- 2x PCIe Gen3 16Lane (hot pluggable slots)
- 4x PCIe Gen3 8Lane



Max. 16 cards can be mounted in Base Unit.
I/O Unit B : Max. 8 cards can be mounted per I/O Unit

- 2x PCIe Gen3 16Lane
- 2x PCIe Gen3 16Lane (hot pluggable slots)
- 4x PCIe Gen3 8Lane



11. Rack Installation for APAC and Americas

January 2020

For the details of rack products, please refer to "19 inch Rack Handbook".
<https://globalpartners.ts.fujitsu.com/sites/primeweb/services/servers/primequest/document/Pages/dc-h-guide.aspx>

Rack for APAC & Americas

Rack Units	
Model 2724 Base Rack 19R-272A2 24U (Width 700mm x Depth 1,050mm x Height 1,200mm)	Expansion Rack 19R-273B2
Model 2737 Base Rack 19R-273A2 37U (Width 700mm x Depth 1,050mm x Height 1,792mm)	Expansion Rack 19R-274B2
Model 2742 Base Rack 19R-274A2 42U (Width 700mm x Depth 1,050mm x Height 2,000mm)	Expansion Rack 19R-274B2
Model 2616 Base Rack 19R-261A2 16U (Width 600mm x Depth 1,050mm x Height 845mm)	
Model 2624 Base Rack 19R-262A2 24U (Width 600mm x Depth 1,050mm x Height 1,200mm)	
Model 2642 Base Rack 19R-264A2 42U (Width 600mm x Depth 1,050mm x Height 2,000mm)	Expansion Rack 19R-264B2
Tilt-Resistant Stabilizer	
L-form Stabilizer 19R-27FS1 For Model 2724/2737/2742	
L-form Stabilizer 19R-26FS1 For Model 2616/2624/2642	
Pull out type Stabilizer 19R-26FS2 For Model 2724/2737/2742/2616/2624/2642	
Earthquake-Proof Kit	
Earthquake-proof Kit 19R-27ST1 For Base Rack for Model 2724/2737/2742 For front side, rear side, left side, and right side	
Earthquake-proof Kit 19R-27ST2 For Expansion Rack for Model 2724/2737/2742 For front side and rear side	
Earthquake-proof Kit 19R-26ST1 For Base Rack for Model 2616/2624/2642 For front side, rear side, left side, and right side	
Earthquake-proof Kit 19R-26ST2 For Expansion Rack for Model 2616/2624/2642 For front side and rear side	
Blank Panel	
Blank Panel (1U) 19R-26BP1	
Blank Panel (2U) 19R-26BP2	
Blank Panel (3U) 19R-26BP3	
Side Cable Duct	
Side Cable Duct 19R-27SD1 For Model 2724/2737/2742	
Rack Tray	
Rack Tray (Fixed Type) 19R-26TR1	
Rack Tray (Slide Type) 19R-26TR2	
Laptop PC Tray 19R-26TR3	
Cable Holder	
Cable Holder for front side 19R-27CM1 * For Model 2724/2737/2742	
Cable Holder for rear side 19R-27CM2 * For Model 2724/2737/2742	
Cable Holder for front side 19R-26CM1 * For Model 2616/2624	
Cable Holder for rear side 19R-26CM2 * For Model 2616/2624	
Cable Holder for front side 19R-26CM11 * For Model 2642	
Cable Holder for rear side 19R-26CM21 * For Model 2642	
Screw kit	
Screw kit 19R-26SC1 50 pcs of M6 screws and 50 pcs of M6 cap nuts	

Rack Mount Kit:
 - can be used to mount PRIMEQUEST to Rack Units which are delivered from Fujitsu factories (Japan and Germany).
 - is bundled with PRIMEQUEST Base Unit.

Rack Units:
 - NOT include Stabilizer, Blank Panel or screw kits.
 Please purchase them together with the Rack Unit, if necessary.

Tilt-Resistant Stabilizer:
 - if racks are not fixed to the floor, stabilizers should be ordered and jointed to the racks.
 - is NOT bundled with rack. Needs to be purchased.

Earthquake-Proof Kit:
 - can fix racks to floor by anchoring racks to floor and using the kit holes.
 - To fix Earthquake-Proof Kit, please consult constructors.

Blank Panel:
 - is used to prevent outflow of heated air into a vacant space.
 - space to joint Side Cable Duct, if they are not jointed, should be covered with Blank Panels.
 For Model 2724: 2 spaces (1U)
 For Model 2737/2742: 4 spaces (1U)
 - is NOT bundled with racks. Needs to be purchased.

Side Cable Duct:
 - is used to draw cables connected from the front side of equipments to the rear side of rack without occupying rack space by jointing the Side Cable Ducts to the apertures in the sides of racks.
 Model 2724: one aperture on each of left and right sides
 Model 2737/2742: 2 apertures on each of left and right sides
 - can accommodate around 90 cables with 5mm diameter.
 - If one aperture is not jointed with Side Cable Duct, the aperture should be covered with one 1U Blank Panel (19R-26BP1), which needs to be purchased.

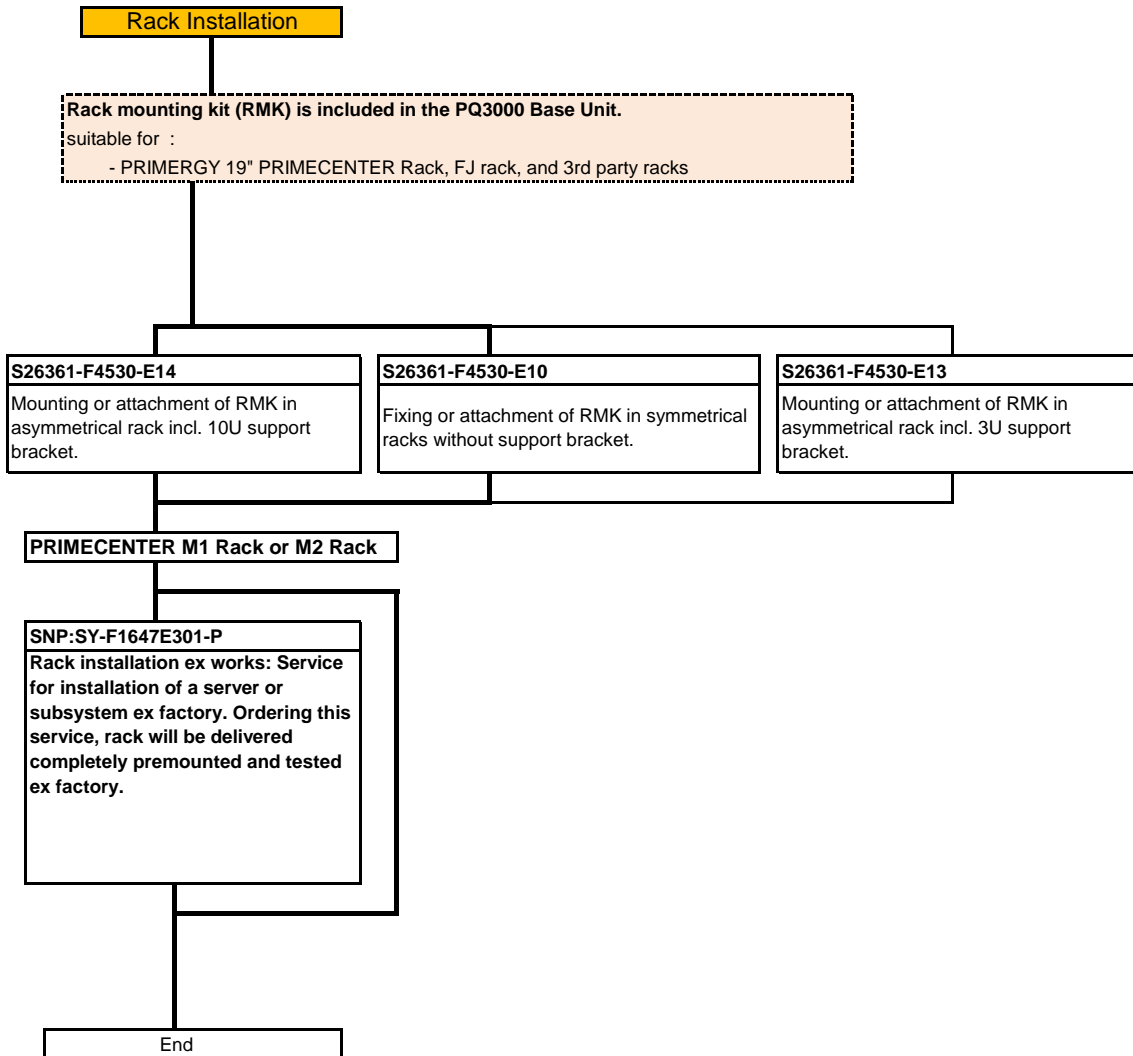
* Cable holders bundled to each rack:
 Model 2724: 6 pcs per Rack
 Model 2737: 8 pcs per Rack
 Model 2742: 10 pcs per Rack
 Model 2616: 4 pcs per Rack
 Model 2624: 6 pcs per Rack
 Model 2642: 10 pcs per Rack
 If the bundled quantity is insufficient, please purchase additional cable holders.

Screw Kit:
 - Needs to be purchased if equipments do not include screws or nuts to be fixed in a rack.
 - is NOT bundled with the 19 inch racks.

End

Rack Installation for EMEA and India

January 2020



For more configuration information, RACK COMPONENTS, PDU & KVM please see:
<http://globalsp.ts.fujitsu.com/dmsp/Publications/public/cnfgPCM1rack.pdf>

12. Maximum Quantity of PCIe Cards

January 2020

Maximum Quantity of PCIe Cards that can be mounted per Base Unit

Product Name	Order Number		Max. Qty		PHP		
	Build-to-Order	Loose Delivery	3800B	ESXi			
SAS RAID controller card	PRAID EP420i	*5	MC-0JSRA1	MCX0JSRA1	2	total 2	No
SAS RAID controller card	PRAID EP540i	*5	MC-0JSR71	MCX0JSR71			No
SAS RAID controller card	PRAID EP580i	*5	MC-0JSR81	MCX0JSR81			No
Dual channel 12Gbps SAS RAID controller card	PRAID EP420e	*4 *5	MC-0JSRB1	MCX0JSRB1	4		No
PRAID EP540e	PRAID EP540e	*4 *5 *7	MC-0JSRC1	MCX0JSRC1	2		No
Dual channel 12Gbps SAS Card	PSAS CP400e	*5	MC-0JSS41	MCX0JSS41	2	2	No
Single Channel 16Gbps Fibre Channel Card	Broadcom LPe31000	*1 *2 *5	MC-0JFCF1	MCX0JFCF1	16		Yes
Dual Channel 16Gbps Fibre Channel Card	Broadcom LPe31002	*1 *2 *5	MC-0JFCG1	MCX0JFCG1	8	total 8	Yes
Single Channel 32Gbps Fibre Channel Card	Broadcom LPe32000	*1 *2 *5	MC-0JFCM1	MCX0JFCM1	8		Yes
Dual Channel 32Gbps Fibre Channel Card	Broadcom LPe32002	*1 *2 *5	MC-0JFCN1	MCX0JFCN1	8		Yes
Single Channel 16Gbps Fibre Channel Card	Qlogic QLE2690	*1 *3 *5	MC-0JFCP1	MCX0JFCP1	8	total 8	Yes
Dual Channel 16Gbps Fibre Channel Card	Qlogic QLE2692	*1 *3 *5	MC-0JFCQ1	MCX0JFCQ1			Yes
Single Channel 32Gbps Fibre Channel Card	Qlogic QLE2740	*1 *3 *5	MC-0JFCK1	MCX0JFCK1			Yes
Dual Channel 32Gbps Fibre Channel Card	Qlogic QLE2742	*1 *3 *5	MC-0JFCL1	MCX0JFCL1			Yes
Dual Channel FCoE card (10Gbps)	Broadcom OCe14102	*1 *2 *5	MC-0JCEL1	MCX0JCEL1	8	4	Yes
Dual Channel 1000BASE-T Card	Intel i350-T2	*5	MC-0JGEC1	MCX0JGEC1	16	8	Yes
Quad Channel 1000BASE-T Card	Intel i350-T4	*5	MC-0JGED1	MCX0JGED1		4	Yes
Dual Channel 10G BASE-T Card	Intel X550-T2	*5	MC-0JXEJ1	MCX0JXEJ1	16	8	Yes
Dual Channel 10G BASE Card	Intel X710-DA2	*5	MC-0JXEK1	MCX0JXEK1		4	Yes
Dual Channel 25G BASE Card	Intel XXV710-DA2	*5	MC-0JXEH1	MCX0JXEH1	4	N/A	Yes
PLAN EP X710-T4 2x10GbE-T	Intel X710-T4	*5	MC-0JXF11	MCX0JXF11	8	4	Yes
PLAN EP QL41112 2x10GbE-T	Qlogic QL41112		MC-0JXF21	MCX0JXF21	16	8	Yes
PLAN EP QL41132 2x10GbE SFP+	Qlogic QL41132		MC-0JXF41	MCX0JXF41		4	Yes
Dual Channel 25G BASE Card	Cavium QL41212	*5	MC-0JFEA1	MCX0JFEA1	4	4	Yes
Dual Channel 10G BASE-T Card	Broadcom OCe14102-NT	*1 *2 *5	MC-0JXEM1	MCX0JXEM1	12	total 4	Yes
Dual Channel 10G BASE Card	Broadcom OCe14102-NX	*1 *2 *5	MC-0JXEN1	MCX0JXEN1	12		Yes
Dual Channel 25G BASE Card	Mellanox MCX4121A-ACAT	*6	MC-0JFE11	MCX0JFE11	4	4	Yes
Dual Channel 40G BASE Card	Mellanox MCX416A-BCAT	*6	MC-0JFE41	MCX0JFE41			Yes
Single Channel 100G BASE Card	Mellanox MCX415A-CCAT	*6	MC-0JFE71	MCX0JFE71	2		Yes
Single Channel 100G BASE Card	Cavium QL45611		MC-0JFEB1	MCX0JFEB1	2	2	Yes
Single channel 56Gbps Infiniband HCA card		*6	MC-0JHC71	MCX0JHC71	4	N/A	No
Dual channel 56Gbps Infiniband HCA card		*6	MC-0JHC81	MCX0JHC81			No
Single channel 100Gbps Infiniband HCA card		*6	MC-0JHC91	MCX0JHC91			No
Dual channel 100Gbps Infiniband HCA card		*6	MC-0JHCA1	MCX0JHCA1	4	N/A	No
Single channel 100Gbps Infiniband HCA card		*6	MC-0JHCB1	MCX0JHCB1			No
Single channel 100Gbps Omni Path card			MC-0JOP11	MCX0JOP11	4	N/A	No
PCIe SSD Card (2TB)	Intel P4600, 3DWPD		MC-0JSDG1	MCX0JSDG1	8	8	No
PCIe SSD Card (4TB)	Intel P4600, 3DWPD		MC-0JSDH1	MCX0JSDH1			

Notes:

*1) Broadcom Fibre Channel Cards/FCoE (CNA) Cards and Qlogic Fibre Channel Cards CANNOT be used in the same chassis.

*2) Max total quantity of "Broadcom Fibre Channel Cards", "Broadcom LAN Cards" and "FCoE Cards (10Gbps)" that can be mounted:
-16 x ports per chassis

*3) Max total quantity of "Qlogic Fibre Channel Cards" that can be mounted:
-8 x cards per chassis

*4) "Dual channel 12Gbps SAS RAID controller card" with FBU can only be mounted IOU#0 PCI Slot#0 and IOU#1 PCI Slot#0
-2 x cards per chassis

*5) Refer to the following documents for restriction on VMware vSphere.
<https://configmax.vmware.com/>

*6) Mixing of Mellanox 25G/40G/100G LAN card and 56G/100G Infiniband HCA card is not allowed.

13.OS x Order number matrix

January 2020

Product name	Order number		OS							
	Build to Order	Loose Delivery	Win2012 R2 (1)	Win2016 (2)	Win2019 (3)	RHEL 7 (4)	SLES (5)	VMware (6)	Oracle Linux (7)	Oracle VM (8)
PRIMEQUEST 3800B Base Unit	MCJ3AC111B	NA	A	A	A	A	A	A	A	A
System board of 3800B	MC-3HSBA1B	MCX3HSBA1B	A	A	A	A	A	A	A	A
eLCM Activation License	MC-6KMA21	MCX6KMA21	A	A	A	A	A	A	A	A
Intel Xeon Platinum 8180M Processor (28C/2.5GHz/1.5TB/205W)	MC-3BFA11B	MCX3BFA11B	A	A	A	A	A	A	A	A
Intel Xeon Platinum 8180 Processor (28C/2.5GHz/768GB/205W)	MC-3BFA21B	MCX3BFA21B	A	A	A	A	A	A	A	A
Intel Xeon Platinum 8176M Processor (28C/2.1GHz/1.5TB/165W)	MC-3BFB11B	MCX3BFB11B	A	A	A	A	A	A	A	A
Intel Xeon Platinum 8176 Processor (28C/2.1GHz/768GB/165W)	MC-3BFB21B	MCX3BFB21B	A	A	A	A	A	A	A	A
Intel Xeon Platinum 8170M Processor (26C/2.1GHz/1.5TB/165W)	MC-3BFC21B	MCX3BFC21B	A	A	A	A	A	A	A	A
Intel Xeon Platinum 8170 Processor (26C/2.1GHz/768GB/165W)	MC-3BFC11B	MCX3BFC11B	A	A	A	A	A	A	A	A
Intel Xeon Platinum 8164 Processor (26C/2GHz/768GB/150W)	MC-3BFD11B	MCX3BFD11B	A	A	A	A	A	A	A	A
Intel Xeon Platinum 8168 Processor (24C/2.7GHz/768GB/205W)	MC-3BFE11B	MCX3BFE11B	A	A	A	A	A	A	A	A
Intel Xeon Platinum 8160M Processor (24C/2.1GHz/1.5TB/150W)	MC-3BFF11B	MCX3BFF11B	A	A	A	A	A	A	A	A
Intel Xeon Platinum 8160 Processor (24C/2.1GHz/768GB/150W)	MC-3BFF21B	MCX3BFF21B	A	A	A	A	A	A	A	A
Intel Xeon Platinum 8153 Processor (16C/2.0GHz/768GB/125W)	MC-3BFG11B	MCX3BFG11B	A	A	A	A	A	A	A	A
Intel Xeon Platinum 8158 Processor (12C/3.0GHz/768GB/150W)	MC-3BFH11B	MCX3BFH11B	A	A	A	A	A	A	A	A
Intel Xeon Platinum 8156 Processor (4C/3.6GHz/768GB/105W)	MC-3BFJ11B	MCX3BFJ11B	A	A	A	A	A	A	A	A
16GB Memory (8GB 1Rx4 DDR4 RDIMM x2)	MC-3CD531B	MCX3CD531B	A	A	A	A	A	A	A	A
32GB Memory (16GB 1Rx4 DDR4 RDIMM x2)	MC-3CD641B	MCX3CD641B	A	A	A	A	A	A	A	A
32GB Memory (16GB 2Rx4 DDR4 RDIMM x2)	MC-3CD651B	MCX3CD651B	A	A	A	A	A	A	A	A
64GB Memory (32GB 2Rx4 DDR4 RDIMM x2)	MC-3CD741B	MCX3CD741B	A	A	A	A	A	A	A	A
128GB Memory (64GB 4Rx4 DDR4 LRDIMM x2)	MC-3CC821B	MCX3CC821B	A	A	A	A	A	A	A	A
256GB Memory (128GB 8Rx4 DDR4 RDIMM 3DS x2)	MC-3CD921B	MCX3CD921B	A	A	A	A	A	A	A	A
Disk Unit for SAS (DU_SAS)	MC-5HDU31B	MCX5HDU31B	A	A	A	A	A	A	A	A
Disk Unit for PCIe SFF	MC-5HDU61B	MCX5HDU61B	A	A	A	A	A	A	A	A
300GB Hard Disk Drive (512n/12Gbps/15,000rpm)	MC-5DS771	MCX5DS771	A	A	A	A	A	A	A	A
600GB Hard Disk Drive (512n/12Gbps/15,000rpm)	MC-5DS961	MCX5DS961	A	A	A	A	A	A	A	A
900GB Hard Disk Drive (512n/12Gbps/15,000rpm)	MC-5DSA51	MCX5DSA51	A	A	A	A	A	A	A	A
300GB Hard Disk Drive (512n/12Gbps/10,000rpm)	MC-5DS781	MCX5DS781	A	A	A	A	A	A	A	A
600GB Hard Disk Drive (512n/12Gbps/10,000rpm)	MC-5DS971	MCX5DS971	A	A	A	A	A	A	A	A
900GB Hard Disk Drive (512n/12Gbps/10,000rpm)	MC-5DSA61	MCX5DSA61	A	A	A	A	A	A	A	A
1.2TB Hard Disk Drive (512n/12Gbps/10,000rpm)	MC-5DSB41	MCX5DSB41	A	A	A	A	A	A	A	A
1.8TB Hard Disk Drive (512e/12Gbps/10,000rpm)	MC-5DSC21	MCX5DSC21	A	A	A	A	A	A	A	A
2.4TB Hard Disk Drive (512e/12Gbps/10,000rpm)	MC-5DSD11	MCX5DSD11	A	A	A	A	A	A	A	A
400GB Solid State Drive (512n/12Gbps/10DWPD)	MC-5DG821	MCX5DG821	A	A	A	A	A	A	A	A
800GB Solid State Drive (512n/12Gbps/10DWPD)	MC-5DG921	MCX5DG921	A	A	A	A	A	A	A	A
1.6TB Solid State Drive (512n/12Gbps/10DWPD)	MC-5DGA21	MCX5DGA21	A	A	A	A	A	A	A	A
400GB Solid State Drive (512n/12Gbps/3WPD)	MC-5DH821	MCX5DH821	A	A	A	A	A	A	A	A
800GB Solid State Drive (512n/12Gbps/3WPD)	MC-5DH921	MCX5DH921	A	A	A	A	A	A	A	A
1.6TB Solid State Drive (512n/12Gbps/3DWPD)	MC-5DHA21	MCX5DHA21	A	A	A	A	A	A	A	A
3.2TB Solid State Drive (512n/12Gbps/3DWPD)	MC-5DHB21	MCX5DHB21	A	A	A	A	A	A	A	A
6.4TB Solid State Drive (512n/12Gbps/3DWPD)	MC-5DSD11	MCX5DSD11	A	A	A	A	A	A	A	A
PCIe-SSD SFF 1.6TB 3DWPD (Intel P4610)	MC-5DKD21	MCX5DKD21	P	P	P	P	P	P	P	P
PCIe-SSD SFF 3.2TB 3DWPD (Intel P4610)	MC-5DKE21	MCX5DKE21	P	P	P	P	P	P	P	P
PCIe-SSD SFF 6.4TB 3DWPD (Intel P4610)	MC-5DKF21	MCX5DKF21	P	P	P	P	P	P	P	P
M.2 Flash Device (VMware, 240GB)	MC-5FB741	MCX5FB741	NA	NA	NA	NA	NA	6.7U2 6.5U3	NA	NA
M.2 Flash Device 240GB (except ESXi)	MC-5FB751	MCX5FB751	P	P	P	7.6 8	12SP4 15	NA	NA	NA
M.2 Flash Device 480GB (except ESXi)	MC-5FB771	MCX5FB771	P	P	P	7.6 8	12SP4 15	NA	NA	NA
USB Flash Device 64GB Dual	MC-5FA411	MCX5FA411		NA	NA	NA	NA	6.5U1 6.5U2 6.5U3 6.7 6.7U1 6.7U2 6.7U3	NA	NA

- (1) Microsoft® Windows Server® 2012 R2 (Standard/Datacenter)
- (2) Microsoft® Windows Server® 2016 (Standard / Datacenter)
- (3) Microsoft® Windows Server® 2019 (Standard / Datacenter)
- (4) Red Hat® Enterprise Linux®
- (5) SUSE® Linux Enterprise Server
- (6) VMware ESXi
- (7) Oracle® Linux
- (8) Oracle® VM

A : Available

NA : Not Available

p : planned

* special release

OS x Order number matrix

January 2020

Product name	Order number		OS							
	Build to Order	Loose Delivery	Win2012 R2 (1)	Win2016 (2)	Win2019 (3)	RHEL 7 (4)	SLES (5)	Vmware (6)	Oracle Linux (7)	Oracle VM (8)
I/O Unit B	MC-3HUX61B	MCX3HUX61B	A	A	A	A	A	A	A	A
SAS RAID controller card (EP420)	MC-0JSRA1	MCX0JSRA1	A	A	A	7.3 7.4 7.5 7.6 7.7 8 8.1	12SP2 12SP3 12SP4 12SP5 15 15SP1	6.5 6.5U1 6.5U2 6.5U3 6.7 6.7U1 6.7U2 6.7U3	7.4 7.5 7.6 7.7	3.4.4 3.4.5 3.4.6
Flash Back-up Unit for Cougar4	MC-0JFB61	MCX0JFB61	-	-	-	-	-	-	-	-
RAID Advanced Software Options	MC-0KLA51	MCX0KLA51	-	-	-	-	-	-	-	-
SAS RAID controller card (EP540)	MC-0JSR71	MCX0JSR71	A	A	A	7.3 7.4 7.5 8	12SP2 12SP3 12SP4 12SP5 15	6.5 6.5U1 6.5U2 6.7 6.7U1 6.7U2 6.7U3	7.5 7.6 7.7	3.4.5 3.4.6
SAS RAID controller card (EP580)	MC-0JSR81	MCX0JSR81	A	A	A	7.3 7.4 7.5 8	12SP2 12SP3 12SP4 15	6.5 6.5U1 6.5U2 6.7 6.7U1 6.7U2 6.7U3	7.5 7.6	3.4.5 3.4.6
Flash Back-up Unit for EP5x0i	MC-0JFB41	MCX0JFB41	-	-	-	-	-	-	-	-
Dual channel 12Gbps SAS RAID controller card (EP420e)	MC-0JSRB1	MCX0JSRB1	A	A	A	7.3 7.4 7.5 7.6 8 8.1	12SP2 12SP3 12SP4 12SP5 15 15SP1	6.5 6.5U1 6.5U2 6.5U3 6.7 6.7U1 6.7U2 6.7U3	7.4 7.5 7.6 7.7	3.4.4 3.4.5 3.4.6
FBU for Ext. SAS RAID Card	MC-0JFB51	MCX0JFB51	-	-	-	-	-	-	-	-
FBU Mount Kit for Ext. SAS RAID Card	MC-0HCK41	MCX0HCK41	-	-	-	-	-	-	-	-
Dual channel SAS RAIDcontroller card (12Gbps/4GB Cash) (EP540e)	MC-0JSRC1	MCX0JSRC1	A	A	A	7.3 7.4 7.5	12SP2 12SP3 15	6.7U2 6.7U3	NA	NA
Flash Back-up Unit for EP540e	MC-0JFB81	MCX0JFB81	-	-	-	-	-	-	-	-
FBU kit B EP540e	MC-0HCKA1	MCX0HCKA1	-	-	-	-	-	-	-	-
Dual channel 12Gbps(4G Cash) SAS controller card (EP540e)	MC-0JSRC1	MCX0JSRC1	A	A	A	7.3 7.4 7.5	12SP2 12SP3 15	6.7U2	NA	NA
Dual channel 12Gbps SAS Card (CP400e)	MC-0JSS41	MCX0JSS41	A	A	P	7.3 7.4 7.5 7.6 7.7 8 8.1	12SP2 12SP3 12SP4 12SP5 15 15SP1	6.5 6.5U1 6.5U2 6.5U3 6.7 6.7U1 6.7U2 6.7U3	7.4 7.5 7.6 7.7	3.4.4 3.4.5 3.4.6
Single Channel 16Gbps Fibre Channel Card	MC-0JFCF1	MCX0JFCF1	A	A	P	7.3 7.4 7.5 7.6 7.7 8	12SP2 12SP3 12SP4 15 15SP1	6.5 6.5U1 6.5U2 6.5U3 6.7 6.7U1 6.7U2 6.7U3	7.3 7.4 7.5	3.4.4 3.4.5 3.4.6
Dual Channel 16Gbps Fibre Channel Card	MC-0JFCG1	MCX0JFCG1	A	A	P	7.3 7.4 7.5 7.6 7.7 8	12SP2 12SP3 12SP4 15 15SP1	6.5 6.5U1 6.5U2 6.5U3 6.7 6.7U1 6.7U2 6.7U3	7.3 7.4 7.5	3.4.4 3.4.5 3.4.6
Single Channel 32Gbps Fibre Channel Card	MC-0JFCM1	MCX0JFCM1	A	A	P	7.3 7.4 7.5 7.6 7.7 8	12SP2 12SP3 12SP4 15 15SP1	6.5 6.5U1 6.5U2 6.5U3 6.7 6.7U1 6.7U2 6.7U3	7.3 7.4 7.5	3.4.4 3.4.5 3.4.6
Dual Channel 32Gbps Fibre Channel Card	MC-0JFCN1	MCX0JFCN1	A	A	P	7.3 7.4 7.5 7.6 7.7 8	12SP2 12SP3 12SP4 15 15SP1	6.5 6.5U1 6.5U2 6.5U3 6.7 6.7U1 6.7U2 6.7U3	7.3 7.4 7.5	3.4.4 3.4.5 3.4.6
Single Channel 16Gbps Fibre Channel Card	MC-0JFCP1	MCX0JFCP1	A	A	A	7.3 7.4 7.5 7.6 8	12SP3 15SP1	6.5 6.5U1 6.5U2 6.5U3 6.7 6.7U1 6.7U2 6.7U3	7.3 7.4 7.5 7.7	3.4.4 3.4.5 3.4.6

- (1) Microsoft® Windows Server® 2012 R2 (Standard/Datacenter)
- (2) Microsoft® Windows Server® 2016 (Standard / Datacenter)
- (3) Microsoft® Windows Server® 2019 (Standard / Datacenter)
- (4) Red Hat® Enterprise Linux®
- (5) SUSE® Linux Enterprise Server
- (6) VMware ESXi
- (7) Oracle® Linux
- (8) Oracle® VM

* Restrictions No. 12.

* Restrictions No. 12.

* Emulex(Broadcom) FC LPe31000

* Emulex(Broadcom) FC LPe31002

* Emulex(Broadcom) FC LPe32000

* Emulex(Broadcom) FC LPe32002

* Qlogic FC QLE2690

OS x Order number matrix

January 2020

Product name	Order number		OS								
	Build to Order	Loose Delivery	Win2012 R2 (1)	Win2016 (2)	Win2019 (3)	RHEL 7 (4)	SLES (5)	Vmware (6)	Oracle Linux (7)	Oracle VM (8)	
Dual Channel 16Gbps Fibre Channel Card	MC-0JFCQ1	MCX0JFCQ1	A	A	A	7.3 7.4 7.5 7.6 8	12SP3 15SP1	6.5 6.5U1 6.5U2 6.5U3 6.7 6.7U1 6.7U2 6.7U3	7.3 7.4 7.5 7.7	3.4.4 3.4.5 3.4.6	* Qlogic FC QLE2692
Single Channel 32Gbps Fibre Channel Card	MC-0JFCK1	MCX0JFCK1	A	A	A	7.3 7.4 7.5 7.6 8	12SP3 15SP1	6.5 6.5U1 6.5U2 6.5U3 6.7 6.7U1 6.7U2 6.7U3	7.3 7.4 7.5 7.7	3.4.4 3.4.5 3.4.6	* Qlogic FC QLE2740
Dual Channel 32Gbps Fibre Channel Card	MC-0JFCL1	MCX0JFCL1	A	A	A	7.3 7.4 7.5 7.6 8	12SP3 15SP1	6.5 6.5U1 6.5U2 6.5U3 6.7 6.7U1 6.7U2 6.7U3	7.3 7.4 7.5 7.7	3.4.4 3.4.5 3.4.6	* Qlogic FC QLE2742
Dual Channel 1000BASE-T Card	MC-0JGEC1	MCX0JGEC1	A	A	A	7.3 7.4 7.5 7.6 7.7 8 8.1	12SP2 12SP3 12SP4 12SP5 15 15SP1	6.5 6.5U1 6.5U2 6.5U3 6.7 6.7U1 6.7U2 6.7U3	7.3 7.4 7.5 7.6	3.4.4 3.4.5 3.4.6	* Intel I350-T2
Quad Channel 1000BASE-T Card	MC-0JGED1	MCX0JGED1	A	A	A	7.3 7.4 7.5 7.6 7.7 8 8.1	12SP2 12SP3 12SP4 12SP5 15 15SP1	6.5 6.5U1 6.5U2 6.5U3 6.7 6.7U1 6.7U2 6.7U3	7.3 7.4 7.5 7.6 7.7	3.4.4 3.4.5 3.4.6	* Intel I350-T4
Dual Channel 10G BASE-T Card	MC-0JXEJ1	MCX0JXEJ1	A	A	A	7.3 7.4 7.6 7.7 8 8.1	12SP2 12SP3 12SP4 15 15SP1	6.5 6.5U1 6.5U2 6.5U3 6.7 6.7U1 6.7U2 6.7U3	7.4 7.5 7.6 7.7	3.4.4 3.4.5 3.4.6	* Intel X550-T2
Dual Channel LAN Card (10G BASE-T)	MC-0JXF21	MCX0JXF21	A	A	P	7.4 7.5	12SP3 15	6.5U2 6.7U1	NA	NA	* QL41112
Dual Channel LAN Card (10G BASE-T)	MC-0JXF41	MCX0JXF41	A	A	P	7.4 7.5	12SP3 15	6.5U2 6.7U1	NA	NA	* QL41132
Quad Channel LAN Card (10G BASE-T)	MC-0JXF11	MCX0JXF11	A	A	A	7.6 7.7 8 8.1	12SP3 12SP4 15 15SP1	6.5U3 6.7U2 6.7U3	NA	NA	* Intel X710-T4
Dual Channel 10G BASE Card	MC-0JXEK1	MCX0JXEK1	A	A	A	7.3 7.4 7.6 7.7 8 8.1	12SP2 12SP3 12SP4 15 15SP1	6.5 6.5U1 6.5U2 6.5U3 6.7 6.7U1 6.7U2 6.7U3	7.4 7.5 7.6 7.7	3.4.4 3.4.5 3.4.6	* Intel X710-DA2
SFP+ Module Multi Mode Fiber 10GbE LC	MC-0JXEL1	MCX0JXEL1	-	-	-	-	-	-	-	-	
Dual Channel 25G BASE Card	MC-0JXEH1	MCX0JXEH1	A	A	A	7.4 7.6 7.7 8 8.1	12SP3 12SP4 15 15SP1	6.5U2 6.5U3 6.7U1 6.7U2 6.7U3	NA	NA	* Intel XXV710-DA2
Dual Channel 25G BASE Card	MC-0JFEA1	MCX0JFEA1	A	A	P	7.3 7.4	12SP2 12SP3 15	6.5U2 6.7 6.7U1	NA	NA	* Cavium QL41212 * Restrictions No.15.
SFP+ Module Multi Mode Fiber 25GbE LC	MC-0JCEJ1	MCX0JCEJ1	-	-	-	-	-	-	-	-	
Dual Channel 10G BASE Card	MC-0JXEM1	MCX0JXEM1	A	A	A	7.3 7.4 7.5 7.6	12SP2 12SP3 12SP4 15	6.5 6.5U1 6.5U2 6.5U3 6.7 6.7U1 6.7U2 6.7U3	7.3 7.4 7.5	3.4.4 3.4.5 3.4.6	* Broadcom OCe14102-NT
Dual Channel 10G BASE Card	MC-0JXEN1	MCX0JXEN1	A	A	A	7.3 7.4 7.5 7.6	12SP2 12SP3 12SP4 15	6.5 6.5U1 6.5U2 6.5U3 6.7 6.7U1 6.7U2 6.7U3	7.3 7.4 7.5	3.4.4 3.4.5 3.4.6	* Broadcom OCe14102-NX
10Gb SFP+ MMF Module	MC-0JCEK1	MCX0JCEK1	-	-	-	-	-	-	-	-	

OS x Order number matrix

January 2020

Product name	Order number		OS								(1) Microsoft® Windows Server® 2012 R2 (Standard/Datacenter) (2) Microsoft® Windows Server® 2016 (Standard / Datacenter) (3) Microsoft® Windows Server® 2019 (Standard / Datacenter) (4) Red Hat® Enterprise Linux® (5) SUSE® Linux Enterprise Server (6) VMware ESXi (7) Oracle® Linux (8) Oracle® VM
	Build to Order	Loose Delivery	Win2012 R2 (1)	Win2016 (2)	Win2019 (3)	RHEL 7 (4)	SLES (5)	VMware (6)	Oracle Linux (7)	Oracle VM (8)	
Dual Channel FCoE card (10Gbps)	MC-0JCEL1	MCX0JCEL1	A	A	P	7.3 7.4 7.5 7.6	12SP2 12SP3 12SP4 15	6.5 6.5U1 6.5U2 6.5U3 6.7 6.7U1 6.7U2 6.7U3	7.3 7.4 7.5	3.4.4 3.4.5 3.4.6	* Broadcom OCe14102-UX
Dual Channel 25G BASE Card	MC-0JFE11	MCX0JFE11	A	A	A	7.3 7.4 7.5 7.6	12SP2 12SP3 15	6.5 6.5U1 6.5U2 6.5U3 6.7U1 6.7U2 6.7U3	NA	NA	*Mellanox 4121A-ACAT
SFP28 25G SR LC 850nm 100m	MC-0JFE21	MCX0JFE21	-	-	-	-	-	-	-	-	
Dual Channel 40G BASE Card	MC-0JFE41	MCX0JFE41	A	A	A	7.3 7.4 7.5 7.6	12SP2 12SP3 15	6.5 6.5U1 6.5U2 6.5U3 6.7U1 6.7U2 6.7U3	NA	NA	*Mellanox 416A-BCAT
QSFP 40G SR4 MPO 850nm 150m	MC-0JFEC1	MCX0JFEC1	-	-	-	-	-	-	-	-	
Single Channel 100G BASE Card	MC-0JFE71	MCX0JFE71	A	A	A	7.3 7.4 7.5 7.6	12SP2 12SP3 15	6.5U1 6.5U2 6.5U3 6.7U1 6.7U2 6.7U3	NA	NA	*Mellanox 415A-CCAT
Single Channel 100G BASE Card	MC-0JFEB1	MCX0JFEB1	A	A	P	7.3 7.4	12SP2 12SP3 15	6.5U2 6.7 6.7U1	NA	NA	*Cavium QL45611
QSFP28 100G SR4 MPO 850nm 100m	MC-0JFE81	MCX0JFE81	-	-	-	-	-	-	-	-	
QSFP28 100G PSM4 1310nm 500m	MC-0JFE91	MCX0JFE91	-	-	-	-	-	-	-	-	
Single channel 56Gbps Infiniband HCA card	MC-0JHC71	MCX0JHC71	NA	NA	NA	7.3 7.4 7.5 7.6	12SP2 12SP3 12SP4	NA	NA	NA	
Dual channel 56Gbps Infiniband HCA card	MC-0JHC81	MCX0JHC81	NA	NA	NA	7.3 7.4 7.5 7.6	12SP2 12SP3 12SP4	NA	NA	NA	
Single channel 100Gbps Infiniband HCA card	MC-0JHC91	MCX0JHC91	NA	NA	NA	7.3 7.4 7.5 7.6	12SP2 12SP3 12SP4	NA	NA	NA	
Dual channel 100Gbps Infiniband HCA card	MC-0JHCA1	MCX0JHCA1	NA	NA	NA	7.3 7.4 7.5 7.6	12SP2 12SP3 12SP4	NA	NA	NA	
Single channel 100Gbps Infiniband HCA card	MC-0JHCB1	MCX0JHCB1	NA	NA	NA	P	P	NA	NA	NA	
Single channel 100Gbps Omni Path card	MC-0JOP11	MCX0JOP11	NA	NA	NA	7.3 7.4 7.5 7.6	12SP2 12SP3 12SP4 15	NA	NA	NA	
100V/200V normal PSU	MC-5HPS71	MCX5HPS71	-	-	-	-	-	-	-	-	
IEC AC(100V/200V) Cable (1m)	MC-0HCB11	MCX0HCB11	-	-	-	-	-	-	-	-	
IEC AC(100V/200V) Cable (3m)	MC-0HCB13	MCX0HCB13	-	-	-	-	-	-	-	-	
Memory Mode Setting (Performance)	MC-0PMM5	-	-	-	-	-	-	-	-	-	
Memory Mode Setting (Full Mirror)	MC-0PMM7	-	-	-	-	-	-	-	-	-	
Memory Mode Setting (Spare)	MC-0PMM8	-	-	-	-	-	-	-	-	-	
Cool-safe Advanced Thermal Design	MC-0PTH2	-	-	-	-	-	-	-	-	-	

* Restrictions No.15.

14. Restrictions

January 2020

The following functions are restricted as of August 2019.

No.	
1	CPU: 6 CPUs (3SBs) configuration
2	I/O Unit B: Hot plug function of IOUB slot#2 and #3 on RHEL 7 and SLES 12.
3	PCI cards: Following PCI cards cannot be installed in IOUB slot#2 or #3. Dual Channel FCoE card (10Gbps) [Broadcom OCe14102] Dual Channel 10G BASE-T Card [Broadcom OCe14102-NT] Dual Channel 10G BASE Card [Broadcom OCe14102-NX]
4	OS: SUSE Enterprise Linux 12 SP2 Xen
5	iRMC: Online update of BIOS firmware from iRMC This issue has been resolved by iRMC version 1.32Q or later.
6	iRMC: Settings of Power Limit
7	iRMC: IPv6 SNMP Trap
8	PCI cards: Following PCI cards are not supported on mixed with 56Gbps/100Gbps Infiniband HCA cards or 100Gbps Omni Path card in this system. Dual Channel 25G BASE Card (MC*0JFE11) [Mellanox: MCX4121A-ACAT] Dual Channel 40G BASE Card (MC*0JFE41) [Mellanox: MCX416A-BCAT] Single Channel 100G BASE Card (MC*0JFE71) [Mellanox: MCX415A-CCAT]
9	PCI cards: 100Gbps Infiniband HCA cards [MC*0JHC91/MC*0JHCA1] are not supported on mixed with 56Gbps Infiniband HCA cards or 100Gbps Omni Path card in this system.
10	PCI cards: 100Gbps Omni Path card [MC*0JOP11] is not supported on mixed with Mellanox 25G/40G/100G BASE card or 56Gbps/100Gbps Infiniband HCA cards in this system.
11	PCI cards: 10G BASE-T card (X550-T2) [MC*0JXEJ1] is not supported on Windows Server 2012R2/2016 with Legacy Mode in this system.
12	SAS RAID controller card (4GB/8GB Cache) (EP540i/EP580i) [MC*0JSR71/MC*0JSR81] are not supported in Oracle Linux 7.4 but are supported in Oracle Linux 7.5 or later.
13	SAS RAID controller card (EP420i/EP540i/EP580i) [MC*0JSRA1/MC*0JSR71/MC*0JSR81] are not yet supported in SLES15.
14	Mellanox PCI card can not be used in VMware ESXi6.7.
15	Dual Channel LAN Card (25G BASE) (QL41212) [MC-0JFEA1/MCX0JFEA1] and Single Channel LAN Card (100G BASE) (QL45611) [MC-0JFEB1/MCX0JFEB1] can not be mixed in Windows.
16	When mixed with X710-DAX and XXV710-DAX, please update the LAN card firmware (NVM) to latest (6.01 or later).
17	QLogic FC (QLE2690, QLE2692, QLE2740, QLE2742) [MC-0JFCP1, MC-0JFCQ1, MC-0JFCK1, MC-0JFCL1] is supported with a total of up to 16 ports.
18	FDR [MC-0JHC71, MC-0JHC81] is not allowed to be mounted on slot #5.
19	Omnipath [MC-0JOP11] is allowed to be mounted on slot #6, #7.
20	EP420i [MC-0JSRA1] and EP540i/580i [MC-0JSR71, MC-0JSR81] are not allowed to be populated together in the system.
21	Mellanox PLAN 25Gb [MC-0JFE11] is allowed to be mounted on slot #0, #2, #4, #6 and #7.
22	Mellanox PLAN 40/100Gb [MC-0JFE41, MC-0JFE71] is allowed to be mounted on slot #2, #6 and #7.

