

PRIMEQUEST 3800E2

System Configuration Guide

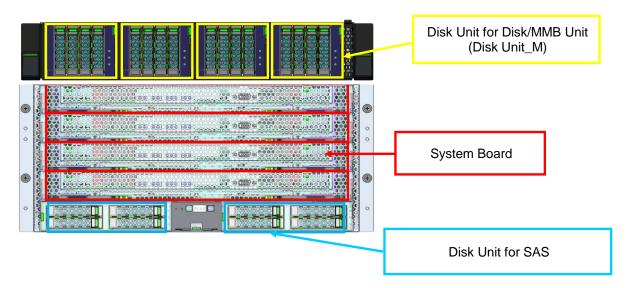
Feb. 26, 2024 Ver. 6.1

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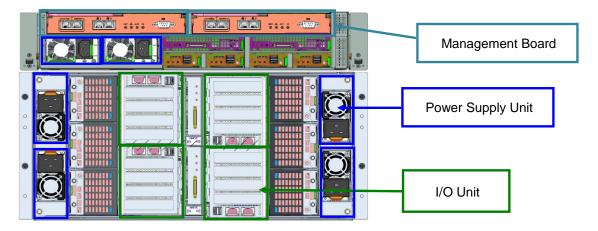
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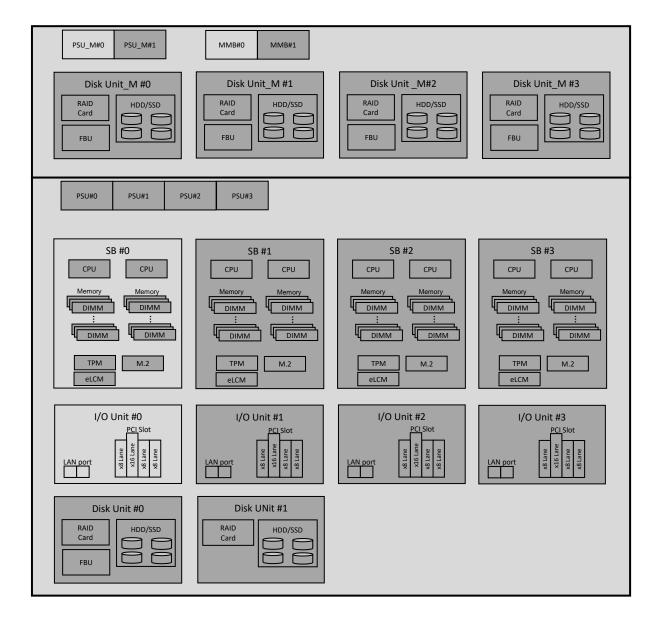
1.Overview Feb. 26, 2024 Ver. 6.1

Front side



Rear side

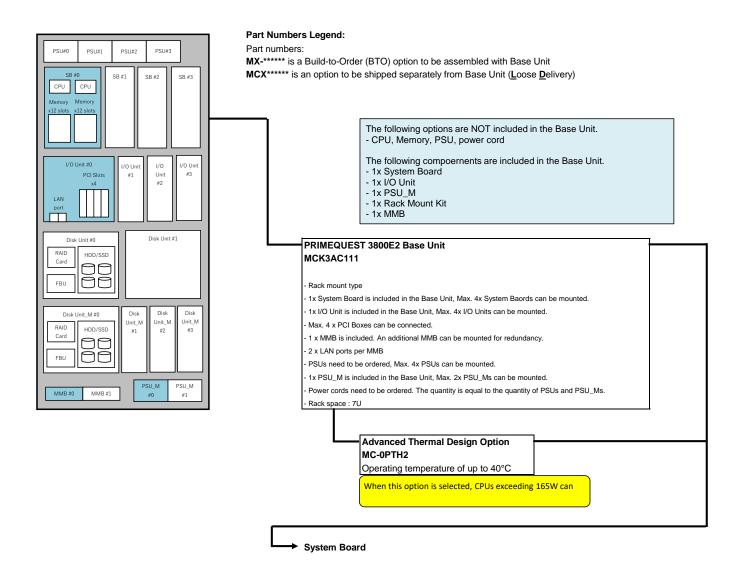




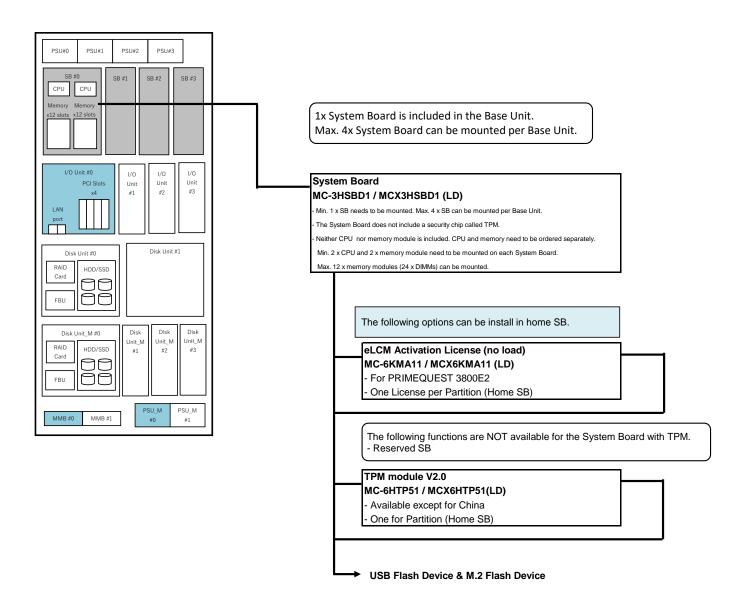
Light gray color components Included in Base Unit.

Dark gray color components are optional.

2.Base Unit Feb. 26, 2024 Ver. 6.1

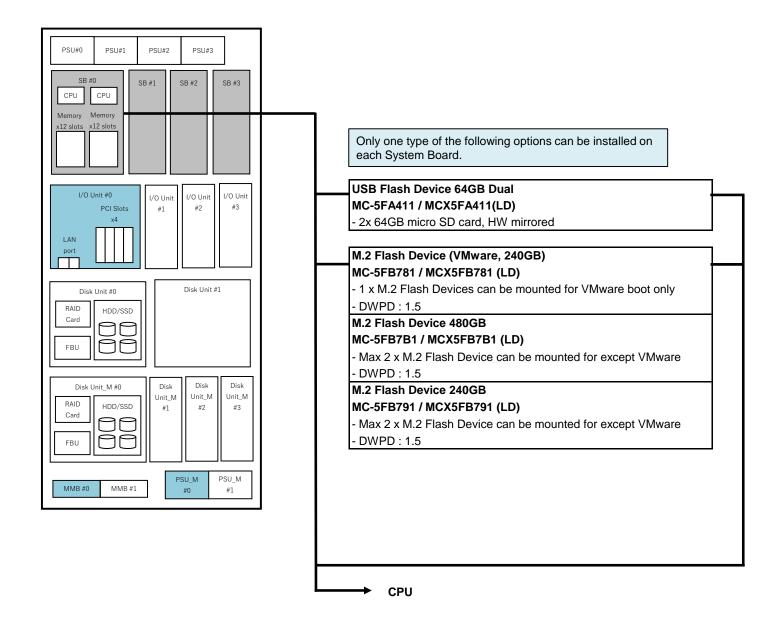


3.System Board (SB) Feb. 26, 2024 Ver. 6.1

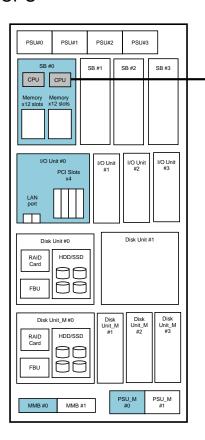


USB Flash Device & M.2 Flash Device

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4.CPU Feb. 26, 2024 Ver. 6.1



CPU	mounting	condition

# of SBs in one PPAR	# of CPUs in one PPAR
1SB	1 or 2
2SB	4
3SB	6
4SB	8

- 1 CPU/SB can be configured PPAR that has 1SB only.
- 1CPU/PPAR can be connected IOU0 and/or IOU1 only.
- Only the same kind of CPU can be installed in the partition.
- Different types of CPUs can be installed in the different partitions.

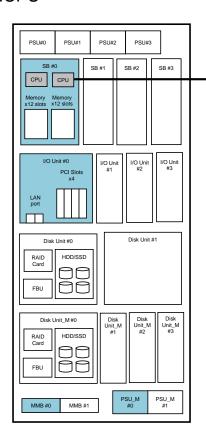
- $2x\ \mbox{CPUs}$ required for one System board except PPAR with 1SB.
- Combinatios of PPAR is only "SB#0 and SB#1" or "SB#2 and SB#3" when Gold 62xx is mounted on SB.
- Can not mix different CPUs in one partition.
- CPUs with number 'xxxxL' support up to 4.5TB of memory. CPUs with number 'xxxxM' support up to 2TB of memory.

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

Intel Xeon Platinum 8280L Processor (28C/2.7GHz/4.5TB/205W)	
 MC-3BJA41 / MCX3BJA41 (LD)	
Intel Xeon Platinum 8280 Processor (28C/2.7GHz/1TB/205W)	
 MC-3BJA11 / MCX3BJA11 (LD)	
Intel Xeon Platinum 8276L Processor (28C/2.2GHz/4.5TB/165W)	
 MC-3BKA41 / MCX3BKA41 (LD)	
Intel Xeon Platinum 8276 Processor (28C/2.2GHz/1TB/165W)	
 MC-3BKA11 / MCX3BKA11 (LD)	
Intel Xeon Platinum 8270 Processor (26C/2.7GHz/1TB/205W)	
 MC-3BKB11 / MCX3BKB11 (LD)	
Intel Xeon Platinum 8268 Processor (24C/2.9GHz/1TB/205W)	
 MC-3BJC11 / MCX3BJC11 (LD)	
Intel Xeon Platinum 8260L Processor (24C/2.4GHz/4.5TB/165W)	
 MC-3BKC41 / MCX3BKC41 (LD)	
Intel Xeon Platinum 8260 Processor (24C/2.4GHz/1TB/165W)	
 MC-3BKC11 / MCX3BKC11 (LD)	
Intel Xeon Platinum 8253 Processor (16C/2.2GHz/1TB/125W)	
 MC-3BKG11 / MCX3BKG11 (LD)	
Intel Xeon Platinum 8256 Processor (4C/3.8GHz/1TB/105W)	
 MC-3BKN11 / MCX3BKN11 (LD)	

→ CPU(2)

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CPU mounting condition

# of CPUs in one PPAR				
1 or 2				
4				
6				
8				

- 1 CPU/SB can be configured PPAR that has 1SB only.
- 1CPU/PPAR can be connected IOU0 and/or IOU1 only.
- Only the same kind of CPU can be installed in the partition.
- Different types of CPUs can be installed in the different partitions.

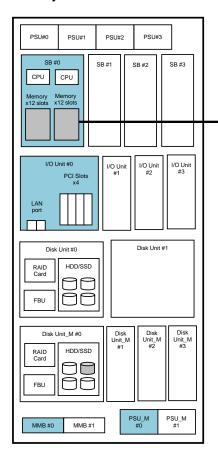
- 2x CPUs required for one System board except PPAR with 1SB.
- Combinatios of PPAR is only "SB#0 and SB#1" or "SB#2 and SB#3" when Gold 62xx is mounted on SB.
- Can not mix different CPUs in one partition.
- CPUs with number 'xxxxL' support up to 4.5TB of memory. CPUs with number 'xxxxM' support up to 2TB of memory.

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

Intel Xeon Gold 6262V Processor (24C/1.9GHz/1TB/135W)	
MC-3BRC11 / MCX3BRC11 (LD)	
Intel Xeon Gold 6254 Processor (18C/3.1GHz/1TB/200W)	
MC-3BMF11 / MCX3BMF11 (LD)	
Intel Xeon Gold 6252 Processor (24C/2.1GHz/1TB/150W)	
MC-3BNC11 / MCX3BNC11 (LD)	
Intel Xeon Gold 6248 Processor (20C/2.5GHz/1TB/150W)	
MC-3BNE11 / MCX3BNE11 (LD)	
Intel Xeon Gold 6246 Processor (12C/3.3GHz/1TB/165W)	
MC-3BSJ11 / MCX3BSJ11 (LD)	
Intel Xeon Gold 6244 Processor (8C/3.6GHz/1TB/150W)	
MC-3BNL11 / MCX3BNL11 (LD)	
Intel Xeon Gold 6242 Processor (16C/2.8GHz/1TB/150W)	
MC-3BNG11 / MCX3BNG11 (LD)	
Intel Xeon Gold 6240L Processor (18C/2.6GHz/4.5TB/150W)	
MC-3BNF41 / MCX3BNF41 (LD)	
Intel Xeon Gold 6240 Processor (18C/2.6GHz/1TB/150W)	
MC-3BNF11 / MCX3BNF11 (LD)	
Intel Xeon Gold 6238L Processor (22C/2.1GHz/4.5TB/140W)	
MC-3BND41 / MCX3BND41 (LD)	
Intel Xeon Gold 6238 Processor (22C/2.1GHz/1TB/140W)	
MC-3BND11 / MCX3BND11 (LD)	
Intel Xeon Gold 6234 Processor (8C/3.3GHz/1TB/130W)	
MC-3BPL11 / MCX3BPL11 (LD)	
Intel Xeon Gold 6230 Processor (20C/2.1GHz/1TB/125W)	
MC-3BRE11 / MCX3BRE11 (LD)	
Intel Xeon Gold 6226 Processor (12C/2.7GHz/1TB/125W)	
MC-3BNJ11 / MCX3BNJ11 (LD)	
Intel Xeon Gold 6222V Processor (20C/1.8GHz/1TB/115W)	
MC-3BPE11 / MCX3BPE11 (LD)	

Memory

5.Memory Feb. 26, 2024 Ver. 6.1



- At least one set of memory (2 DIMMs) must be installed for each CPU.
- Max 6 sets of memory (12 DIMMs) can be installed for each CPU.

32GB Memory (16GB 1Rx4 DDR4 RDIMM x2)	
MC-3CE611 / MCX3CE611 (LD)	
64GB Memory (32GB 2Rx4 DDR4 RDIMM x2)	
MC-3CE711 / MCX3CE711 (LD)	
128GB Memory (64GB 2Rx4 DDR4 RDIMM x2)	
MC-3CE811 / MCX3CE811 (LD)	
128GB Memory (64GB 4Rx4 DDR4 LRDIMM x2)	
MC-3CE821 / MCX3CE821 (LD)	
256GB Memory (128GB 8Rx4 DDR4 LRDIMM 3DS x2)	
MC-3CE911 / MCX3CE911 (LD)	
512GB Memory (256GB 8Rx4 DDR4 LRDIMM 3DS x2)	
MC-3CEA11 / MCX3CEA11 (LD)	
* 256GB 8R LRDIMM can not be installed on a CPU with a	
memory limit of 1TB.	
	_
128GB DDR-T DCPMM(NVM/LRDIMM)	
MC-3CK811 / MCX3CK811(LD)	
256GB DDR-T DCPMM(NVM/LRDIMM)	
MC-3CK911 / MCX3CK911(LD)	
512GB DDR-T DCPMM(NVM/LRDIMM)	
MC-3CKA11 / MCX3CKA11(LD)	
	_

If configuration of PRIMEQUEST3800E2 includes a DCPMM, it is necessary to check validity of DCPMM installation. For request of configuration check, please submit request to the contact point for PRIMEQUEST.

fj-pq-tech@dl.jp.fujitsu.com

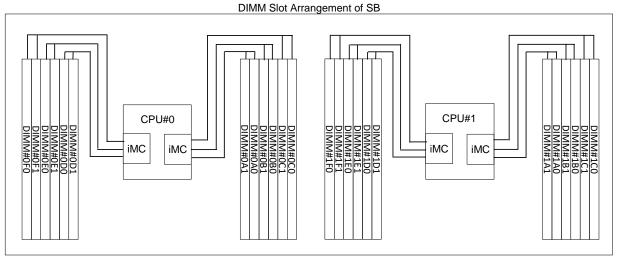
Memory Mounting

Memory Mounting Feb. 26, 2024 Ver. 6.1

1. Memory and DIMM slots

- (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.
- (4) DIMM Slot Arrangement of SB is shown below.

DIMM#xx0 is farther Slots and DIMM#xx1 is nearer Slots among the six DIMM Slots connected to the iMC.



MSC: Memory Scale-up Controller on MSB

iMC : Memory Controller

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. Memory Support for Operating Systems of PRIMEQUEST 3800E2

Operating System	Max. Memory Capacity (TB)
Microsoft® Windows Server® 2016 (Standard / Datacenter) Microsoft® Hyper-V Server 2016	3
Microsoft® Windows Server® 2019 (Standard / Datacenter) Microsoft® Hyper-V Server 2019	3
Red Hat® Enterprise Linux® 7	12
SUSE® Linux Enterprise Server 12	24
SUSE® Linux Enterprise Server 15	24
VMware vSphere® 6.5	4
VMware vSphere® 6.7	4



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DIMM mounting order on System Board

At least one AEP DIMMs have to be installed in one CPU.

DDR4 DIMM installation order

The order of DIMM installation is shown in the following table. DIMMs are installed in order from one with small number.

			CPU#0					CPU#1						Remark
	iMC#O		iMC#1			i MC#O			iMC#1					
Memory	Lockstep	0A0	0B0	000	OD0	0E0	0F0	1A0	1B0	100	1D0	1E0	1F0	
Mode	Lockstep	0A1	0B1	001	0D1	0E1	0F1	1A1	1B1	101	1D1	1E1	1F1	
	Disabled	1	2	4(*1),8	1	2	4(*1),8	1	3	5(*1),9	1	3	5(*1),9	(*3)
Normal	Disabled	6	6 (*2)	10	6	6 (*2)	10	7	7 (*2)	11	7	7 (*2)	11	
Normai	Enabled	1	4	8	2	6	10	1	5	9	3	7	11	(*3)
	Enabled	1	4	8	2	6	10	1	5	9	3	7	11	
	Disabled	1	4	8	2	6	10	1	5	9	3	7	11	(*3)
		1	4	8	2	6	10	1	5	9	3	7	11	
Spare	Enabled -	-	-	-	-	-	-	-	-	-	-	-	-	
		-	-	-	-	-	-	-	-	-	-	-	-	
	Disabled	1	1	4	1	1	4	1	1	5	1	1	5	
	Disabled	2	2	4	2	2	4	3	3	5	3	3	5	
Full Mirror/	Disabled	1	1	2	1	1	2	1	1	3	1	1	3	(*4)
Address Range Mirror	(768GB CPU)	-	-	-	-	-	-	-	-	-	-	-	-	
	Fueblad	-	-	-	-	-	-	-	-	-	-	-	-	
	Enabled	_	-	-	-	-	-	-	-	-	-	-	-	

^{(*1)(*2)} In the case of four DIMMs in iMC, remove DIMM installed in (*1) slot and then install DIMM to (*2) slot.

^(*3) When the CPU which memory capacity is 768GB is installed, 128GB DIMM can be installed up to number 5 and cannot be installed after number 6.

^(*4) Only when the CPU which memory capacity is 768GB and 128GB DIMM are installed together, this installation order is applied.

Memory Mixed Condition

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Which size of DIMM can be installed together in a DDR CH or an SB are shown in the following tables.

The type of the DIMM mixed installation condition for each DIMM.

	16GB 1R RDIMM	32GB 2R RDIMM	64GB 2R RDIMM	64GB 4R LRDIMM	128GB 8R LRDIMM (3DS)	256GB 8R LRDIMM (3DS)
16GB 1R RDIMM	-	YES (*1)	YES (*1)			
32GB 2R RDIMM	YES (*1)	1	YES (*1)			
64GB 2R RDIMM	YES (*1)	YES (*1)	-			
64GB 4R LRDIMM				-		
128GB 8R LRDIMM(3DS)					-	YES
256GB 8R LRDIMM(3DS)					YES	-

YES:Mixable in DDR CH/SB/Partition

Blank: Not Mixable in DDR CH/SB/Partition

Mixable conditions

	Yes (Mixable in DDR CH)	"_" (Mixable in DDR CH)	Blank (Not Mixable in Partition)
DDR CH	YES	YES	
SB	YES	YES	
Partition	YES	YES	
System	YES	YES	YES

YES: Mixable in DDR CH/SB/Partition Blank: Not mixable in DDR CH/SB/Partition

[&]quot;-": Same DIMM

^(*1) When RDIMM or LRDIMM other than 3DS with different rank number is populated together within a DDR channel, the DIMM with largest rank number must be populated at far side and the DIMM with smallest rank number must be populated at near side.

Memory Mixed Installation Condition

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DIMM mixed installation conditions are shown in the following table. Same symbols mean that same DIMMs can be installed which is defined in the table below. Different symbols mean that different DIMMs can be mixed.

DIMM mixed installation condition.

[CPU#0						CPU#1					
	iMC#0			iMC#1			iMC#0			iMC#1			
Memory Mode	Lockstep	0A0	0B0	0C0	0D0	0E0	0F0	0A0	0B0	0C0	0D0	0E0	0F0
		0A1	0B1	0C1	0D1	0E1	0F1	0A1	0B1	0C1	0D1	0E1	0F1
	Disabled		Δ	0	☆	∇	\Diamond		A	•	*	•	•
Normal	Disabled	4	\triangleright	લુ	02]	42	薑	^		*	∞ [[]	@	鲎
Nomai	Enabled		Δ	0	☆	∇	\Diamond			•	*	•	•
	Lilabieu	4	\triangleright	લુ	02	4	翼	^		*	964]	?	童
	Disabled		Δ	0	☆	∇	\Diamond			•	*	•	♦
Sparing	Disableu	4	\bigcirc	G ₄	22	2	麠	^	\otimes	*	<u> </u>	2	
Opaning	Enabled	Not Supported											
	Disabled				Δ	Δ	Δ				A	A	A
Full Mirror (Mirror Keep) /	Disabled	0	0	0	☆	☆	☆	•	•	•	*	*	*
Address Range Mirror	Enabled	Not Supported											
Full Mirror (Capacity Keep)	Disabled												
	Disabled												
	Enabled						Not Su	pported	1				

Mixing condition shown contains installation conditions about near side and far side in DDR CH. When RDIMM or LRDIMM other than 3DS with different rank number is populated together within a DDR channel, the DIMM with largest rank number must be populated at far side and the DIMM with smallest rank number must be populated at near side.

DCPMM(NVM/LRDIMM) installation pattern

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The mountable number of DCPMM is in the range of one to six per CPU.

The following table shows the installation pattern of DDR4 DIMMs and DCPMMs allowed by Fujitsu.

DCPMM installation pattern within CPU

					U#0			
			iMC#0		iMC#1			Remark
Mode	Pattern	0A0	0B0	0C0	0D0	0E0	0F0	Remark
Mode	Fallelli	0A1	0B1	0C1	0D1	0E1	0F1	
AD	2-2-2	DRAM1	DRAM1	DRAM1	DRAM1	DRAM1	DRAM1	(*1) Symmetric
AD	2-2-2	DCPMM1	DCPMM1	DCPMM1	DCPMM1	DCPMM1	DCPMM1	Any DRAM
MM	2-2-2	DRAM1	DRAM1	DRAM1	DRAM1	DRAM1	DRAM1	(*1) Symmetric
IVIIVI	2-2-2	DCPMM1	DCPMM1	DCPMM1	DCPMM1	DCPMM1	DCPMM1	Any DRAM
AD+MM	2-2-2	DRAM3	DRAM3	DRAM3	DRAM3	DRAM3	DRAM3	(*1) Symmetric
ADTIVIIVI	2-2-2	DCPMM1	DCPMM1	DCPMM1	DCPMM1	DCPMM1	DCPMM1	Except for 3DS LRDIMM
AD	2-1-1	DRAM1	DRAM1	DRAM1	DRAM1	DRAM1	DRAM1	(*1) Symmetric
AD	2-1-1	DCPMM1	-	-	DCPMM1	-	-	Any DRAM
MM	2-1-1	DRAM2	DRAM2	DRAM2	DRAM2	DRAM2	DRAM2	(*1) Symmetric
IVIIVI	2-1-1	DCPMM1	-	-	DCPMM1	-	-	RDIMM only (16 or 32GB)
AD+MM	2-1-1	DRAM3	DRAM3	DRAM3	DRAM3	DRAM3	DRAM3	(*1) Symmetric
AD+IVIIVI	2-1-1	DCPMM1	-	-	DCPMM1	-	-	Except for 3DS LRDIMM
AD	2-2-1	DRAM1	DRAM1	DRAM1	DRAM1	DRAM1	DRAM1	(*1) Symmetric
AD	2-2-1	DCPMM1	DCPMM1	-	DCPMM1	DCPMM1	-	Any DRAM
NANA	2.24	DRAM1	DRAM1	DRAM1	DRAM1	DRAM1	DRAM1	(*1) Symmetric
MM	2-2-1	DCPMM1	DCPMM1	-	DCPMM1	DCPMM1	-	Any DRAM
AD:MM	2.24	DRAM3	DRAM3	DRAM3	DRAM3	DRAM3	DRAM3	(*1) Symmetric
AD+MM	AD+MM 2-2-1		DCPMM1	-	DCPMM1	DCPMM1	-	Except for 3DS LRDIMM

Mode	DDR4 Type	Capacity				
	RDIMM					
DRAM1	3DS LRDIMM	Any Canacity				
DRAWII	LRDIMM	Any Capacity				
	3DS LRDIMM					
	RDIMM					
DRAM2	-	16GB or 32GB				
DIVAME	-	1000 01 3200				
	-					
	RDIMM					
DRAM3	3DS LRDIMM	Any Capacity				
DRAIVIS	LRDIMM	Arry Capacity				
	-					
DCPMM1	-	Any Capacity				

AD: App Direct Mode

MM: Memory Mode (100%)

AD+MM: Memory Mode (Except for 100%) (*1) Symmetric Population across all CPU.

If configuration of PRIMEQUEST3800E2 includes a DCPMM, it is necessary to check validity of DCPMM installation.

For request of configuration check, please submit request to the contact point for PRIMEQUEST.

fj-pq-tech@dl.jp.fujitsu.com

Datacenter Persistent Memory Modules (DCPMM)

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DCPMM Firmware

As of November 15, 2019

Size	DCPMM Firmware	Unified Firmware
128GB DDR-T DCPMM(NVM/LRDIMM)		
256GB DDR-T DCPMM(NVM/LRDIMM)	01. 02. 00. 5395	PB19092 or later
512GB DDR-T DCPMM(NVM/LRDIMM)		

Support DCPMM Modes

0S	Memory Mode	App Direct Mode	Mixed Mode
Windows Server 2019	•	A	_
SUSE SLES 12 SP4	_	•	_
SUSE SLES 15 SP1	A	•	A
Red Hat EL 7.6	•	•	A
Red Hat EL 8.0	•	•	A
Vmwear ESXi6.7U3	_	•	_

: Available: Planned: Not Available

Support of OS Boot from DCPMM Modules

OS	Mode				
Windows Server 2019	App Direct Mode				
Red Hat EL 7.6	App Direct Mode				

Boot from DCPMM namespace is not supported by ServerView Installation Manager.

Please do manual installation of OS if boot from DCPMM is required.

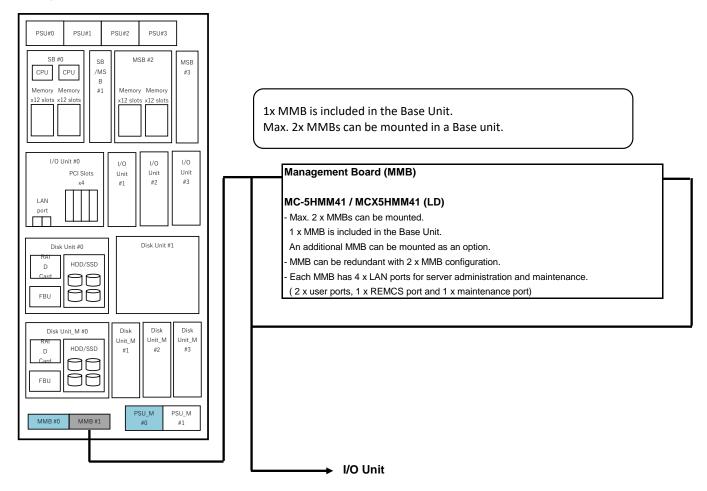
Notes

- Please always keep both DCPMM and BIOS firmware to the latest version.
- Please keep aware that Fujitsu provides only integrated firmware for PRIMEQUEST 3800E2.
 This means the customers must apply such integrated firmware if they are going to update the firmware for DCPMM.
- To update the integrated firmware, you must power off the entier server.
- DCPMM must be reconfigured if DCPMM is added or replaced while in App Direct Mode. Refer to the DCPMM manuals at the http://manuals.ts.fujitsu.com/ for the configuration of DCPMM.
- As memory cells of DCPMM are wearing parts, an DCPMM can only tolerate a limited number of
 write jobs. PBW (PetaBytes Written) is an indicator which specifies write endurance of an
 DCPMM. Depending on how the product is used, the number of writing times may reach the end
 of write endurance within the product lifespan. Percentage of data written to the lifetime can be
 confirmed in MMB Web-UI. Refer to the following documents for how to check the status of write
 endurace of DCPMM.

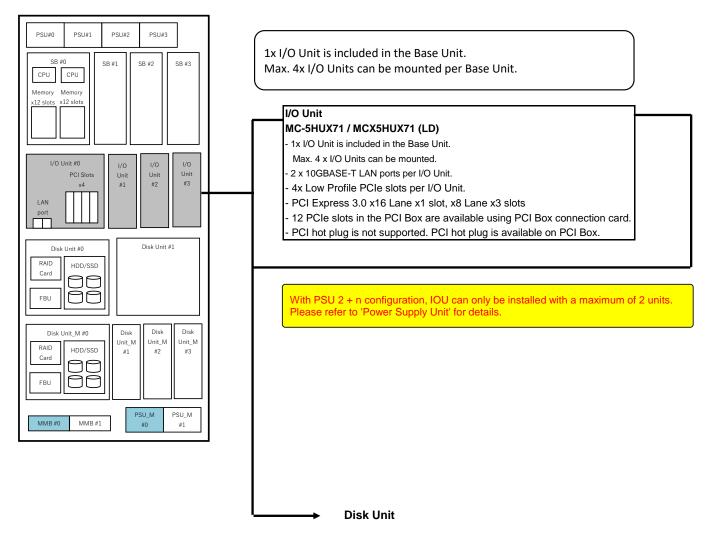
"Lifecycle monitoring of DCPMM on PRIMEQUEST 3000 series" http://manuals.ts.fujitsu.com/index.php?id=5406-14274-18399-18783 Select x86 Servers > PRIMEQUEST Servers > PRIMEQUEST 3000 Series > Common

6.Management Board (MMB)

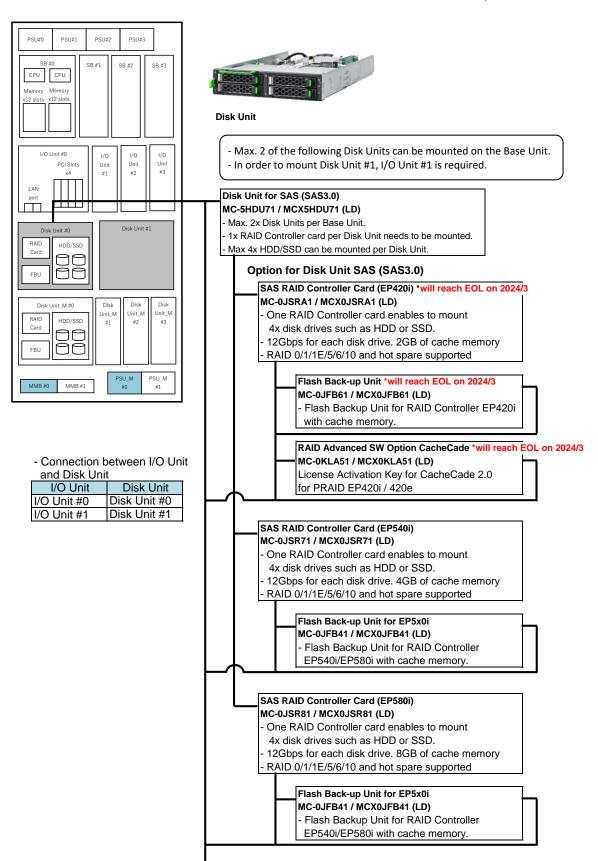
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7.I/O UNIT Feb. 26, 2024 Ver. 6.1

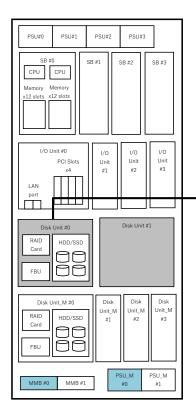


8.Disk Unit Feb. 26, 2024 Ver. 6.1



Disk for HDD or SSD

8.Disk Unit Feb. 26, 2024 Ver. 6.1





Disk Unit

- $\mbox{\rm Max}.$ 2 of the following Disk Units can be mounted on the Base Unit.
- In order to mount Disk Unit #1, I/O Unit #1 is required.

Disk Unit for PCIe SFF (DU_PCIEA) MC-5HDU61 / MCX5HDU61 (LD)

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

SAS RAID Controller Card (EP540i)

MC-0JSR71 / MCX0JSR71 (LD)

- One RAID Controller card enables to mount Max 4x PCIe-SSD SFFs
- 12Gbps for each disk drive. 4GB of cache memory RAID 0/1/1E/5/6/10 and hot spare supported

SAS RAID Controller Card (EP580i)

MC-0JSR81 / MCX0JSR81 (LD)

- One RAID Controller card enables to mount Max 4x PCIe-SSD SFFs
- 12Gbps for each disk drive. 8GB of cache memory
- RAID 0/1/1E/5/6/10 and hot spare supported

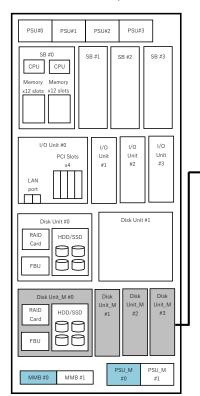
 Connection between I/O Unit and Disk Unit

I/O Unit	Disk Unit
I/O Unit #0	Disk Unit #0
I/O Unit #1	Disk Unit #1

Disk for PCle-SSD

Disk Unit for DMBU(Disk/MMB Unit) (DU_M)

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- Connection between I/O Unit and Disk Unit M

I/O Unit	Disk Unit
I/O Unit #0	Disk Unit_M#0
I/O Unit #1	Disk Unit_M#1
I/O Unit #2	Disk Unit_M#2
I/O Unit #3	Disk Unit_M#3



Disk Unit for DMBU(Disk/MMB Unit) (DU_M)

- Max. 4 Disk Units can be mounted on the Disk/MMB Unit
- In order to mount Disk Unit #1, #2 and #3, I/O Unit #1, #2 and #3 is required respectively.

Disk Unit for DMBU(Disk/MMB Unit) (DU_M) MC-5HDU51 / MCX5HDU51 (LD)

- Max. 4x Disk Units per Disk/MMB Unit.
- 1x RAID Controller card is required per Disk Unit.
- Max 4x SAS HDD/SSD can be mounted per Disk Unit.

SAS RAID Controller Card (EP420i) *will reach EOL on 2024/3 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

RAID Advanced Software Options *will reach EOL on 2024/3 MC-0KLA51 / MCX0KLA51 (LD)

License Activation Key for CacheCade 2.0

Flash Back-up Unit *will reach EOL on 2024/3 MC-0JFB61 / MCX0JFB61 (LD)

- Flash Backup Unit for RAID Controller (2GB Cache)

SAS RAID Controller Card (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 0/1/5/6/10 and hot spare supported
- No RAID Software License required.

Flash Back-up Unit for EP5x0i MC-0JFB41 / MCX0JFB41 (LD)

- Flash Backup Unit for RAID Controller

SAS RAID Controll Card (8GB Cache) MC-0JSR81 / MCX0JSR81 (LD)

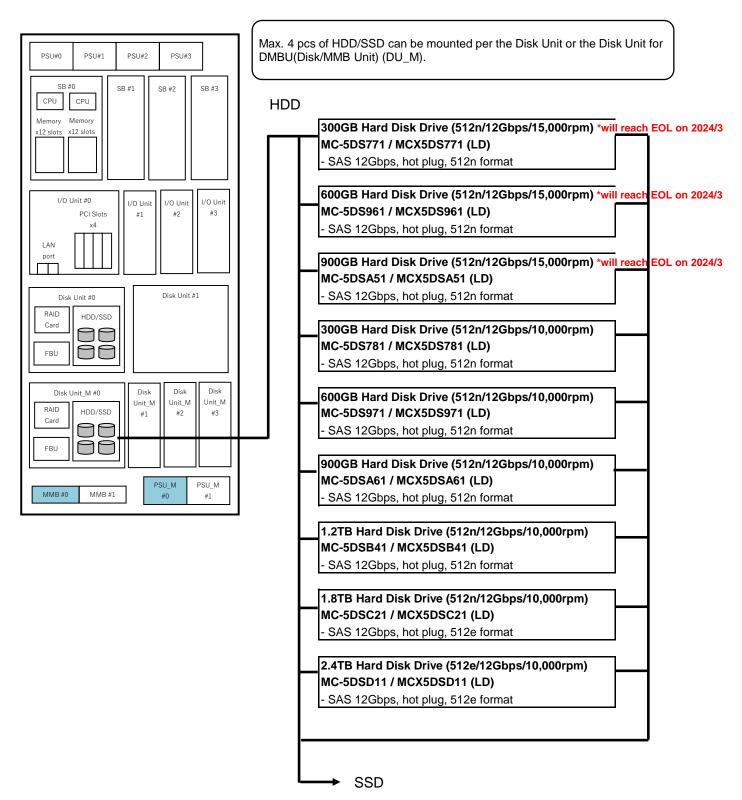
- One RAID Controller card allows mounting of 4x disk drives such as HDD or SSD.
- 12Gbps for each disk drive. 8GB of cache memory
- RAID 0/1/5/6/10 and hot spare supported
- No RAID Software License required.

Flash Back-up Unit for EP5x0i MC-0JFB41 / MCX0JFB41 (LD)

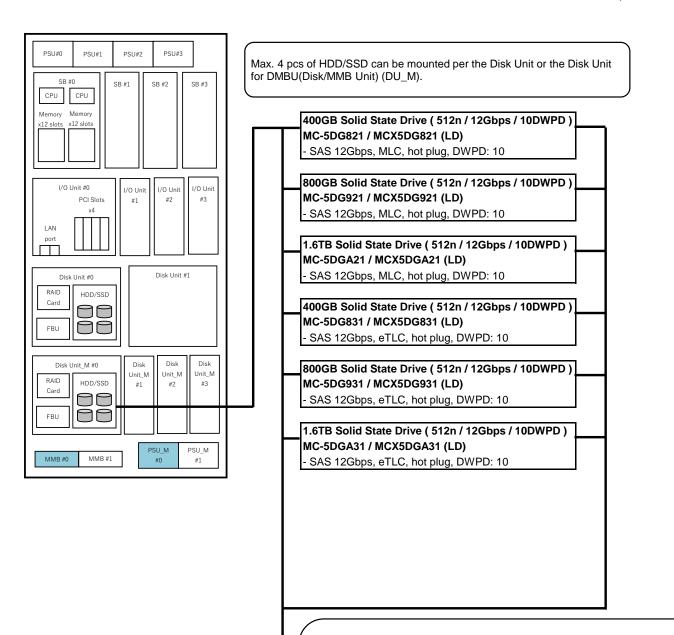
- Flash Backup Unit for RAID Controller

Disk for HDD or SSD

9.HDD Feb. 26, 2024 Ver. 6.1



9.SSD Feb. 26, 2024 Ver. 6.1



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.

System Configuration Guide

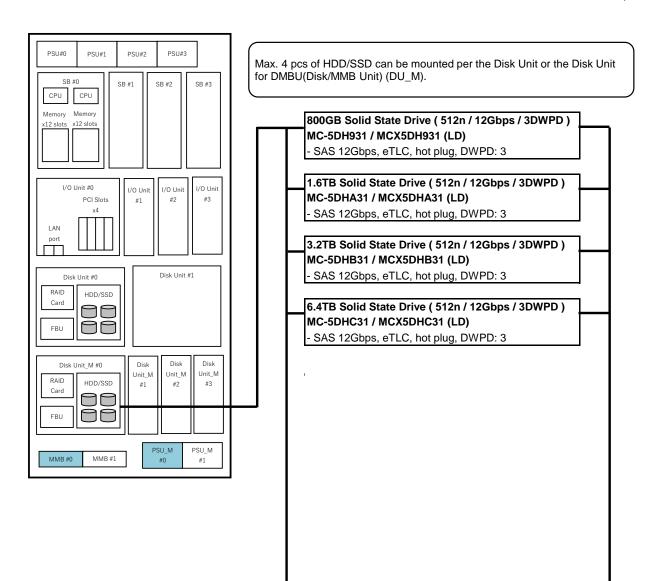
Depending on how the product is used, the number of writing times may reach the end of write endurance within the product lifespan.

Procuct status can be confirmed by management tools such as iRMC Web-UI and Server View RAID Manager (SVRM).

SSD 2

System Configuration Guide

9.SSD Feb. 26, 2024 Ver. 6.1



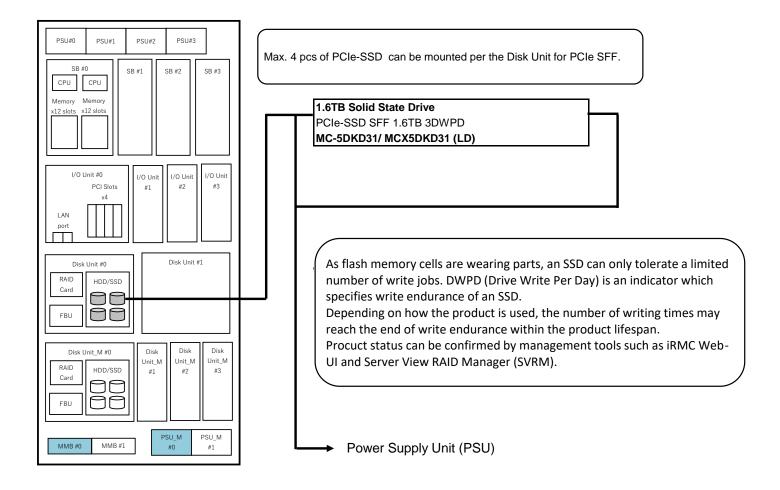
As flash memory cells are wearing parts, an SSD can only tolerate a limited number of write jobs. DWPD (Drive Write Per Day) is an indicator which specifies write endurance of an SSD.

Depending on how the product is used, the number of writing times may reach the end of write endurance within the product lifespan.

Procuct status can be confirmed by management tools such as iRMC Web-UI and Server View RAID Manager (SVRM).

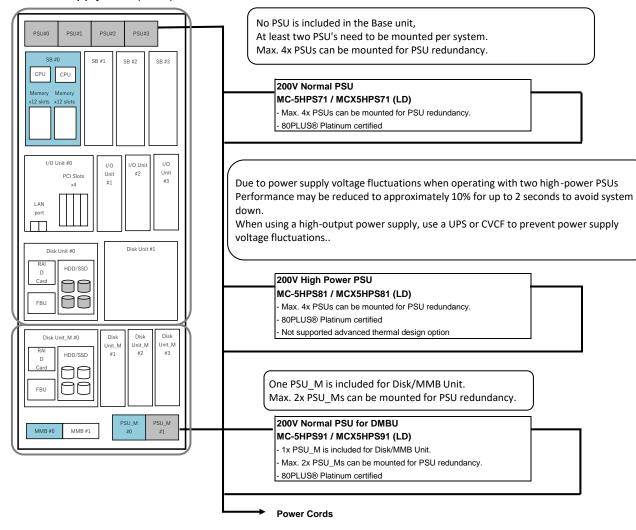
PCIe-SSD

9.PCIe-SSD Feb. 26, 2024 Ver. 6.1



10. Power Supply Unit (PSU)

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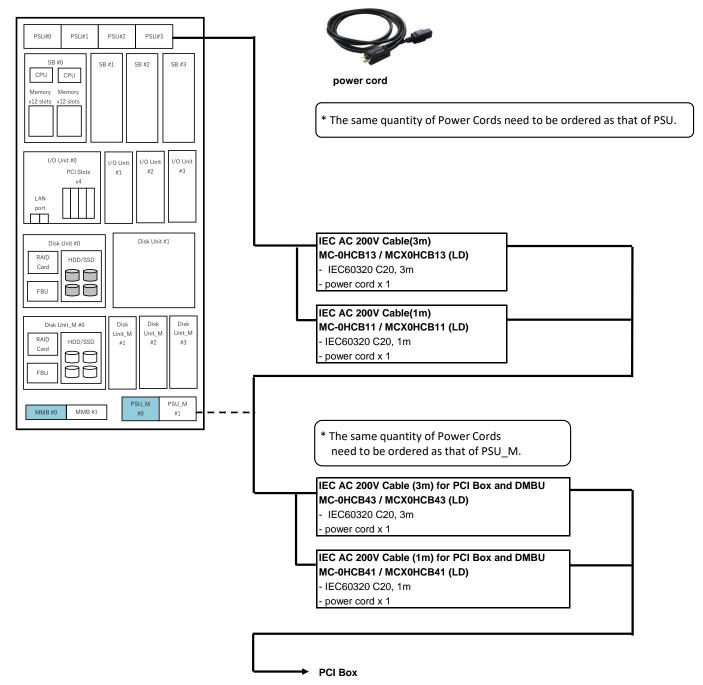
AC Power	# of components					# of PSL	Dual Power	
input	CPU (W)	DIMM	IOU	PCIeSSD	DCPMM	PSU	PSU_M	feed
Name	>=200	00 -1-4-	4	8		3 + 1 (*1)	1 + 1 (*1)	No
Normal PSU	=<165	96 slots (Max.	4	8	0	3 + 1 (*1)	1 + 1 (*1)	No
240V	>=200	(IVIAX. 12TB)	2	2	U	2 + 1 (*2) / 2 + 2 (*3)	1 + 1 (*2, *3)	Yes
2.00	=<165	.210)	2	2		2 + 1 (*2) / 2 + 2 (*3)	1 + 1 (*2, *3)	Yes

AC Power		# of	compor	nents		# of PSU	Dual Power	
input	CPU	DIMM	IOU	PCleSSD	DCPMM	PSU	PSU_M	feed
High Power	8	96 slots (Max.	4	8	48	2 + 1	1 + 1	No
PSU	0	12TB)	4	0	40	2 + 2	1 + 1	Yes

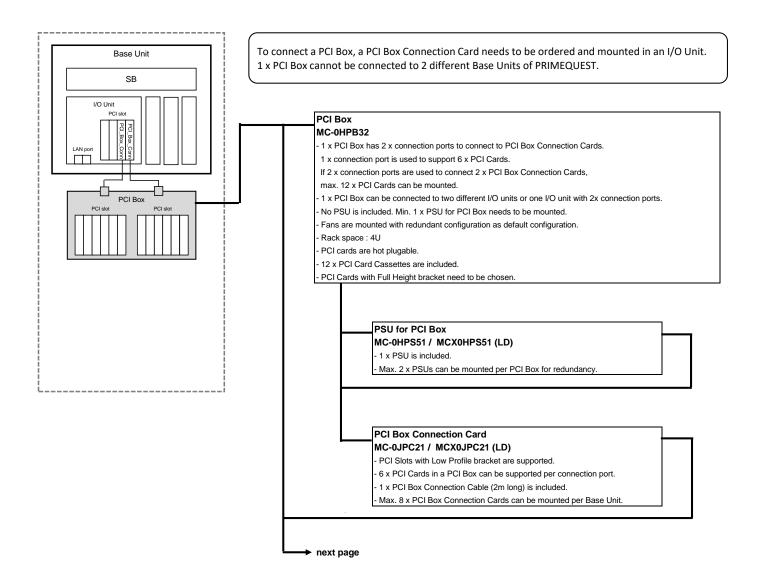
- *1: At least 3 PSUs and 1 PSU_M are required. No installation restriction of components.
 - 4 PSUs and 2 PSU_Ms configuration is resistant to failure of one power supply unit. Dual power feed is not possible.
- *2: At least 2 PSUs and 1 PSU_M are required. The maximum number of I/O unit is 2.
 - $3\ PSUs$ and $2\ PSU_Ms$ configuration is resistant to failure of one power supply unit.
- $^{\star}3$: At least 2 PSUs and 1 PSU_M are required. The maximum number of I/O unit is 2.
 - $4\ PSUs$ and $2\ PSU_Ms$ configuration is dual power feed configuration.
 - Dual power feed configuration is resistant to one data center power feed failure and PSU failure.

10. Power Cords for Base Unit

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11.PCI Box Feb. 26, 2024 Ver. 6.1



Base Units and PCI Boxes need to have the same power supply condition.

Input voltage	Power feed Redundancy		# of PSU		Required quantity		
input voitage	rower leed	Reduitdancy	# 01 F 30		PSU	Power cord	
	Single	Not available	1	→	1	1	
AC 200V	Single	Available (*1)	1+1	,	2	2	
	Dual	Available (*2)	1×2		2	2	

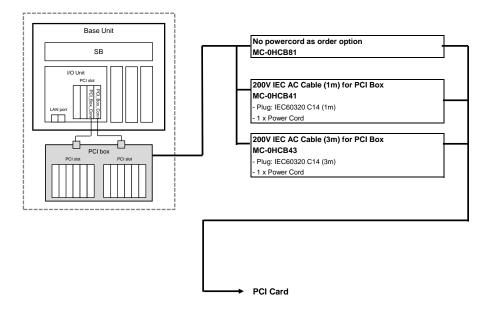
^(*1) Single power feed configuration will help to supply power even in the event of PSU failure.

^(*2) Dual power feed configuration will help to supply power even in the event of one Power feed failure or PSU failure.

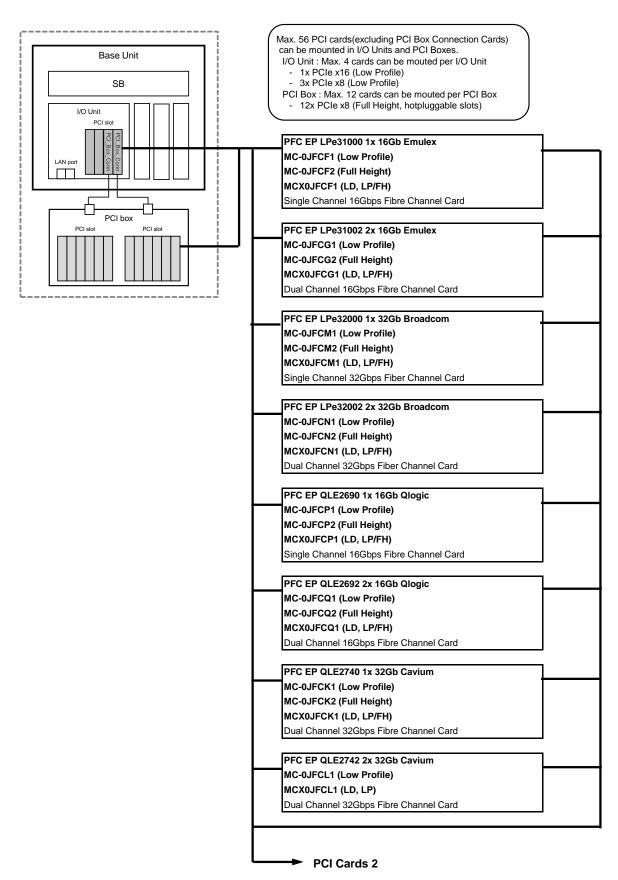
FUJITSU Server PRIMEQUEST 3800E2 System Configuration Guide

Power Cords for PCI Box

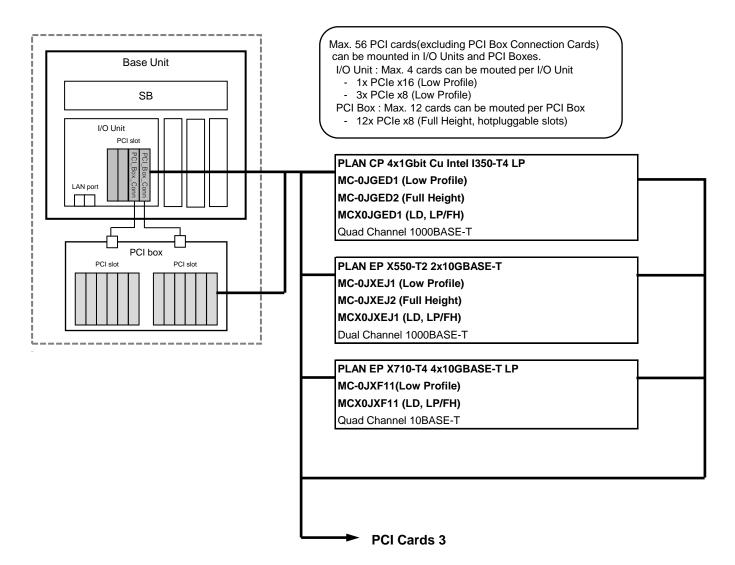
Feb. 26, 2024 Ver. 6.1



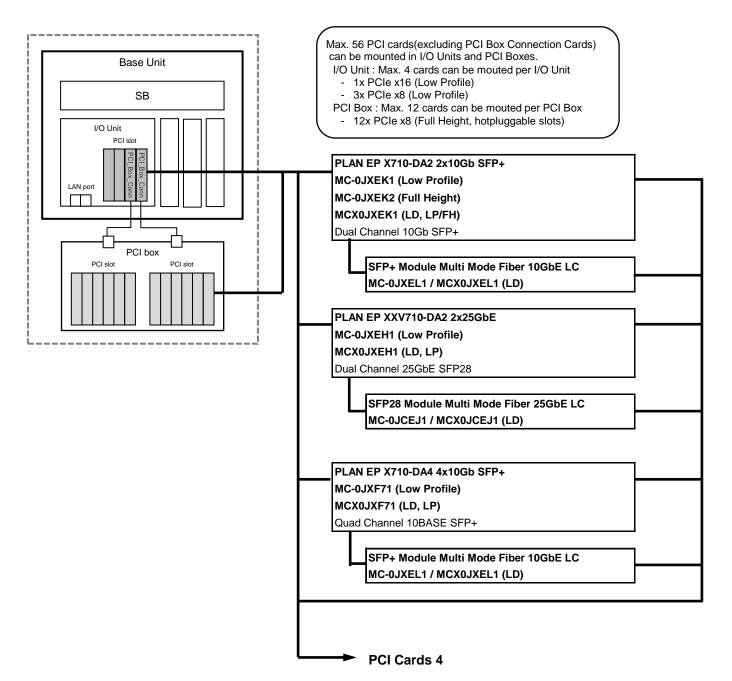
12.PCI Cards Feb. 26, 2024 Ver. 6.1



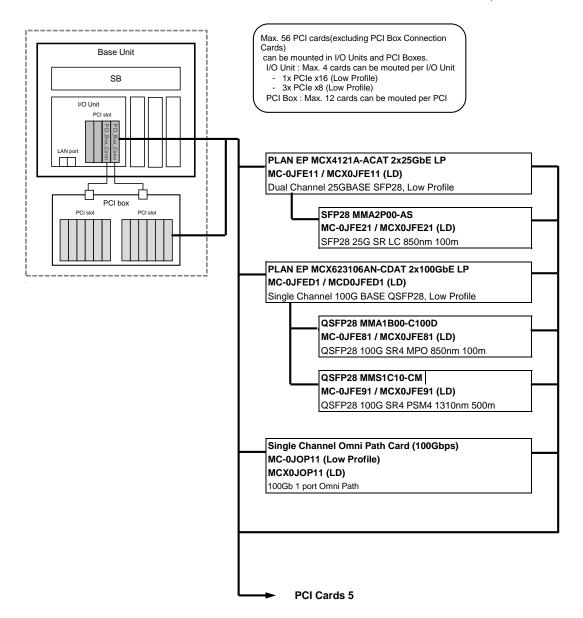
PCI Cards 2 Feb. 26, 2024 Ver. 6.1



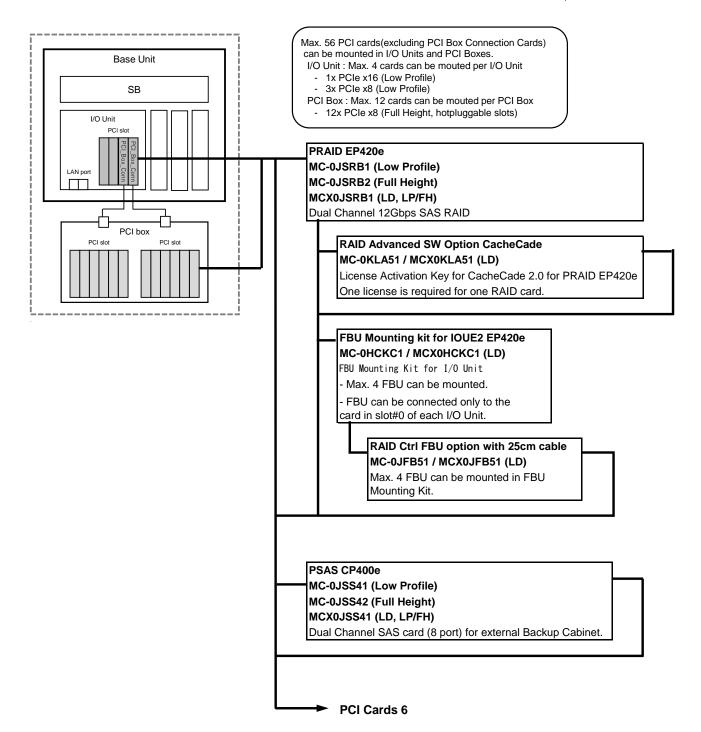
PCI Cards 3 Feb. 26, 2024 Ver. 6.1



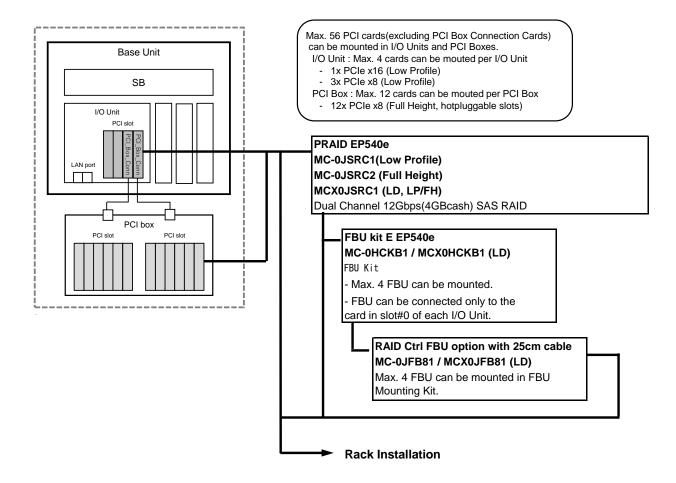
PCI Cards 4 Feb. 26, 2024 Ver. 6.1



PCI Cards 6 Feb. 26, 2024 Ver. 6.1



PCI Cards 7 Feb. 26, 2024 Ver. 6.1



13.Rack Installation for APAC and Americas

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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

& Americas		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 Unit		
	Model 2724 Base Rack 19R-272A2	Rack Units: - NOT include Stabilizer, Blank Panel or screw kits.
	24U (Width 700mm x Depth 1,050mm x Height 1,200mm)	Please purchase them together with the Rack Unit, if necessary.
	Model 2737 Base Rack 19R-273A2	
	37U (Width 700mm x Depth 1,050mm x Height 1,792mm)	
	Expansion Rack 19R-273B2	
<u> </u>	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)	
<u> </u>	Model 2624 Base Rack	
	19R-262A2 24U (Width 600mm x Depth 1,050mm x Height 1,200mm)	
Ь	Model 2642 Base Rack	
	19R-264A2 42U (Width 600mm x Depth 1,050mm x Height 2,000mm)	
	Expansion Rack	
	19R-264B2	
Tilt-Resist	ant Stabilizer L-form Stabilizer	
	19R-27FS1	Tilt-Resistant Stabilizer: - If racks are not fixed to the floor, stabilizers should be
	For Model 2724/2737/2742	ordered and jointed to the racks is NOT bundled with rack. Needs to be purchased.
	L-form Stabilizer 19R-26FS1	
	For Model 2616/2624/2642	
	Pull out type Stabilizer 19R-26FS2	
	For Model 2724/2737/2742/2616/2624/2642	
Earthquak	e-Proof Kit	
	Earthquake-proof Kit 19R-27ST1	Earthquake-Proof Kit:
	For Base Rack for Model 2724/2737/2742 For front side, rear side, left side, and right side	can fix racks to floor by anchoring racks to floor and using the kit holes.
	Earthquake-proof Kit	- To fix Earthquake-Proof Kit, please consult constructors.
	19R-27ST2	
	For Expansion Rack for Model 2724/2737/2742 For front side and rear side	
<u> </u>	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 Pan	el	
\top	Blank Panel (1U) 19R-26BP1	Blank Panel: - is used to prevent outflow of heated air into a vacant space.
_	Blank Panel (2U)	space to joint Side Cable Duct, if they are not jointed, should be covered with Blank Panels.
	19R-26BP2	For Model 2724: 2 spaces (1U) For Model 2737/2742: 4 spaces (1U)
<u> </u>	Blank Panel (3U) 19R-26BP3	- is NOT bundled with racks. Needs to be purchased.
Side Cable		
	Side Cable Duct 19R-27SD1	Side Cable Duct:
	For Model 2724/2737/2742	 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.
		Model2724 : one aperture on each of left and right sides Mdel2737/2742: 2 apertures on each of left and right side consecutive and 90 cables with Farm framed to accome
		 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
		aperture should be covered with one 10 Blank Panel (19R-26BP1), which needs to be purchased.
Rack Tray	Rack Tray (Fixed Type)	
	19R-26TR1	
	Rack Tray (Slide Type) 19R-26TR2	†
L	Laptop PC Tray	
	19R-26TR3	
Cable Hole	der Cable Holder for front side	
	Cable Holder for front side 19R-27CM1 For Model 2724/2737/2742	* Cable holders bundled to each rack:
- [Model 2724: 6 pcs per Rack Model 2737: 8 pcs per Rack
	Cable Holder for rear side 19R-27CM2	Model 2742: 10 pcs per Rack
	* For Model 2724/2737/2742	Model 2616: 4 pcs per Rack Model 2624: 6 pcs per Rack Model 2642: 10 pcs per Rack
	Cable Holder for front side	If the bundled quantity is insufficient, please purchase addition
		cable holders.
	19R-26CM1 * For Model 2616/2624	
	* For Model 2616/2624 Cable Holder for rear side	
	* For Model 2616/2624	
	* For Model 2616/2624 Cable Holder for rear side 19R-26CM2 *For Model 2616/2624 Cable Holder for front side	
	* For Model 2516/2624 Cable Holder for rear side 1878.26CM2 * For Model 2516/2624 Cable Holder for front side 1878.26CM1	
	* For Model 2616/2624 Cable Holder for rear side 1878.26CM2 * For Model 2616/2624 Cable Holder for front side 1878.26CM11 * For Model 2642	
	* For Model 2616/2624 Cable Holder for rear side 1878.26CM2 * For Model 2616/2624 Cable Holder for front side 1878.26CM11 * For Model 2616/2624 Cable Holder for rear side 1878.26CM11 * For Model 2642 Cable Holder for rear side	
	* For Model 2516/2624 Cable Holder for rear side 18R-265/M2 * For Model 2516/2624 Cable Holder for forth side 18R-265/M1 * For Model 2616/2624 Cable Holder for forth side Cable Holder for forth side Cable Holder for rear side	
Screw kit	* For Model 2516/2624 Cable Hidder for rear side 1874-265/M2 *For Model 2516/2624 Cable Hidder for front side 1874-265/M1 *For Model 2616/2624 Cable Hidder for rear side 1874-265/M21 *For Model 2642 Screw kit	Screw Kit:
	* For Model 2516/2624 Cable Holder for rear side 18R-26CM2 * For Model 2516/2624 Cable Holder for for side 18R-26CM1 * For Model 2646/264 Cable Holder for forear side 18R-26CM21 * For Model 2642 * For Model 2642	Screw K2: - Needs to be purchased if equipments do not include screws or nuts to be fixed in a rack Is NOT bunded with the 19 inch marks.

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14. Maximum Quantity of PCIe Cards

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Maximum Quantity of PCI Cards that can be mounted.						oer Partition / per Sy			
	Product Name		Order Number Max. Q						
	Toduct Name		BTO	BTO for PCI Box	LD	3800E2	ESXi *6		
SAS RAID controller card (EP420i)	PRAID EP420i	*6 *7	MC-0JSRA1	Not mountable	MCX0JSRA1				
SAS RAID controller card (EP540i)	PRAID EP540i	*6 *7	MC-0JSR71	Not mountable	MCX0JSR71	6c / 6c			
RAID controller card (EP580i)	PRAID EP580i	*6 *7	MC-0JSR81	Not mountable	MCX0JSR81		total 2		
PRAID EP420e	PRAID EP420e	*6	MC-0JSRB1	MC-0JSRB2	MCX0JSRB1	2c / 4c			
PRAID EP540e	PRAID EP540e	*6	MC-0JSRC1	MC-0JSRC2	MCX0JSRC1	2c / 4c			
PSAS CP400e	PSAS CP400e	*6	MC-0JSS41	MC-0JSS42	MCX0JSS41	4c / 8c	2		
PFC EP LPe31000 1x 16Gb Emulex	Broadcom LPe31000	*1 *2 *6	MC-0JFCF1	MC-0JFCF2	MCX0JFCF1	16p / 24c			
PFC EP LPe31002 2x 16Gb Emulex	Broadcom LPe31002		MC-0JFCG1	MC-0JFCG2	MCX0JFCG1	10p / 24c	total 8		
PFC EP LPe32000 1x 32Gb Broadcom	EP LPe32000 1x 32Gb Broadcom Broadcom LPe32000		MC-0JFCM1	MC-0JFCM2	MCX0JFCM1	8p / 16c	เบเลเ ช		
PFC EP LPe32002 2x 32Gb Broadcom	Broadcom LPe32002	*1 *2 *6	MC-0JFCN1	MC-0JFCN2	MCX0JFCN1	op / 100			
PFC EP QLE2690 1x 16Gb Qlogic	Qlogic QLE2690	*1 *6 *7	MC-0JFCP1	MC-0JFCP2	MCX0JFCP1	16c / 24c			
PFC EP QLE2690 2x 16Gb Qlogic	Qlogic QLE2692	*1 *6 *7	MC-0JFCQ1	MC-0JFCQ2	MCX0JFCQ1	8c / 12c	total 8		
PFC EP QLE2740 1x 32Gb Cavium	Qlogic QLE2740	*1 *6 *7	MC-0JFCK1	MC-0JFCK2	MCX0JFCK1	8c / 16c	เบเลเ ช		
PFC EP QLE2742 2x 32Gb Cavium	Qlogic QLE2742	*1 *6 *7	MC-0JFCL1	Not mountable	MCX0JFCL1	007100			
PLAN CP 4x1Gbit Cu Intel I350-T4	Intel i350-T4		MC-0JGED1	MC-0JGED2	MCX0JGED1		4		
PLAN EP X550-T2 2x10GBASE-T	Intel X550-T2		MC-0JXEJ1	MC-0JXEJ2	MCX0JXEJ1	16c / 24c	8		
PLAN EP X710-DA2 2x10Gb SFP+	Intel X710-DA2	*3	MC-0JXEK1	MC-0JXEK2	MCX0JXEK1	8c / 24c	4		
PLAN EP X710-T4 4x10GbE-T	Intel X710-T4		MC-0JXF11	Not mountable	MCX0JXF11	8c / 16c	4		
PLAN EP X710-DA4 4x10Gb SFP+ LP	Intel X710-DA4	*6	MC-0JXF71	Not mountable	MCX0JXF71	0C / TOC	4		
PLAN EP XXV710-DA2 2x 25GbE	Intel XXV710-DA2		MC-0JXEH1	Not mountable	MCX0JXEH1	8c / 8c	2		
PLAN EP MCX4121A-ACAT 2x25GbE	Mellanox MCX4121A-ACAT	*6	MC-0JFE11	Not mountable	MCX0JFE11	4c / 8c			
PLAN EP MCX416A-BCAT 2x40GbE	Mellanox MCX416A-BCAT	*6	MC-0JFE41	Not mountable	MCX0JFE41	4c / 4c	total 4		
PLAN EP MCX415A-CCAT 1x100GbE	Mellanox MCX415A-CCAT	*6	MC-0JFE71	Not mountable	MCX0JFE71	4c / 4c			
PLAN EP MCX623106AN-CDAT 2x100GbE LP	Mellanox MCX623106AN-CDAT		MC-0JFED1	Not mountable	MCX0JFED1	2c / 2c			
POP EP 100Gb 1 port Omni Path	POP EP 100Gb 1 port Omni Path		MC-0JOP11	Not mountable	MCX0JOP11	4c / 4c	-		
PCI Box connection card		*5	MC-0JPC21	Not mountable	MCX0JPC21	See not	e *5		

Notes:

Max. Qty: must satisfy the both limits of partition and system.

Mc / Nor max. M cards can be mounted per partition. / total N cards can be mounted in the system including PCI Boxes.

Pp / Qc the total number of ports of the same kind of cards is allowed up to P ports. / total Q cards can be mounted in the system including PCI Boxes.

*1) Broadcom Fibre Channel Cards and Qlogic Fibre Channel Cards CANNOT be used in the same partition.

*2) Max total ports number of "Broadcom Fibre Channel Cards" and "LAN cards" per partition is 16 ports.

*3) Max number of 'PLAN EP X710-DA2 2x10Gb SFP+' [MC-0JXEK1/MC-0JXEK2] per partition is 8. [Restriction] Max. number for these products per system is 24.

*4) Max. number depends on the configuration of CPU and PSU. Please refer 'Power Supply Unit' for details.

*5) Two connect cards are mountable per I/O units. Max. four connect cards are moutable to two I/O units as the maximum number of I/O units in a system.

*6) EP420i and EP420e, or EP540i/580i and EP420e/EP540e are supported with a total of up to 2 cards by ESXi. Emulex FC (LPe3100x, LPe3200x) is supported with a total of up to 8 cards by ESXi. QLogic FC (QLE2690, QLE2692, QLE2740, QLE2742) is supported with a total of up to 8 cards by ESXi. Mellanox PLANs(25/40/100Gb) are supported with a total of up to 4 ports by ESXi. Up to 16 10Gb ports are supported by ESXi 6.7. Refer to the following documents for restriction on VMware vSphere.

https://configmax.vmware.com/home

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

*7) EP420i and EP540i/580i are not allowed to be populated together in a partition.

*8) QLogic FC (QLE2690, QLE2692, QLE2740, QLE2742) is supported with a total of up to 16 ports.

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15. Available OS (1) Feb. 26, 2024 Ver. 6.1

5. Available OS (1)												Feb. 26, 2024 Ver.
												(1) Microsoft® Windows Server® 2016 (Standard Datacenter)
												(2) Microsoft® Windows Server® 2019 (Standard / Datacenter) (3) Microsoft® Windows Server® 2022 (Standard / Datacenter)
				# h2016	# h2019			SHES (S)	Where I			(4) Red Hat® Enterprise Linux® (5) SUSE® Linux Enterprise Server
	Build to Order	8TO for PCI Box	Loose Delivery	6	8				8			(6) VMware vSphere® (7) Oracle® Linux
												(8) Oracle® VM
PRIMEQUEST 3800E2 Base Unit Advanced Thermal Design Option	MCK3AC111 MC-0PTH2						-			-		A : Available NA : Not Available
System Board TPM Modula(v2.0)	MC-3HSBD1 MC-6HTP51		MCX3HSBD1 MCX6HTP51	A	A	A	NA	NA	- NA	NA	NA	p : planned
eLCM Activation License (no load) USB Flash Device 64GB Dual	MC-6KMA21 MC-5FA411		MCX6KMA21 MCX5FA411									
M.2 Flash Device (VMware, 240GB)	MC-5FA411 MC-5FB781		MCX5FB781	NA NA	NA NA	NA NA	NA NA	NA NA	A	NA NA	NA NA	
M.2 Flash Device 240GB (except ESXI) M.2 Flash Device 480GB (except ESXI)	MC-5FB791 MC-5FB7B1		MCX5FB791 MC-5FB7B1	A	A	A	A	A	NA NA	NA NA	A	
#REF!	#REF!		0	A	A	A	A	A	A	A	A	
#REF!	#REF!		0	A	A	A	A	A	A	A	A	
#REF!	#REF!		0	A	А	А	A	A	A	A	A	
#REFI	#REF!		0	A	A	A	A	A	A	A	A	
#REFI	#REF!		0	А	А	А	Α	А	A	А	А	
#REF!	#REF!		0	A	A	A	A	A	A	A	A	
#REFI	#REF!		0	A	A	A	A	A	A	A	A	
#REF!	#REF!		0	А	А	Α	Α	A	A	Α	А	
#REFI	#REF!		0	A	A	A	A	A	A	A	A	
#REFI	#REF!		0	A	A	A	A	A	A	A	A	
#REF!	#REF!		0	A	A	A	A	A	A A	A	A	
#REFI	#REF!		0	A	A	A	A	A	A	A	A	
#REFI	#REF!		0	Α	Α	Α	Α	A	A	Α	A	
#REF!	#REF!		0	A	A	A	A	A	A	A	A	
#REFI	#REF!		0	A	A	A	A	A	A	A	A	
WREFI WREFI	#REF!		0	Α	Α	Α	Α	A	A	Α	A	
#REF!	#REF!		0	A	A	A	A	A	A	A	A	
#REF!	#REFI		0	A	A	A	A	A	A	A	A	
#REF!	#REF!		0 MCX3CFA11	Α	Α	Α	Α	A	A	Α	A	
512GB Marrory (256GB 8Rx4 DDR4 LRDIMM 3DS x2) #REF!	MC-3CEA11 MC-3CK811		MCX3CEA11 MCX3CK811	A NA	A	A	A	A	A	A NA	A NA	
#REF!	MC-3CK911		MCX3CK911	NA	Α	Α	А	A	А	NA.	NA.	
#REF! Management Board	MC-3CKA11 MC-5HMM41		MCX3CKA11 MCX5HMM41	NA .	Α .	Α .	Α .	Α .	Α .	NA	NA .	
UO Unit E Disk Unit for SAS (SAS3.0)	MC-5HUX71 MC-5HDU71		MCXSHUX71 MCXSHDU71									
Disk Unit for PCIe SFF(DU_PCIEA)	MC-5HDU61		MCX5HDU61							-		
Disk Unit for DMBU(Disk/MMB Unit) (DU_M) SAS RAID controller card (EP420i)	MC-SHDU51 MC-0JSRA1		MCXSHDU51 MCX0JSRA1			٠	7.6					
				А	А	A	7.7 7.8 8.0 8.1 8.2 8.3 8.4 8.5 8.6 8.7 8.8 9.0 9.1	12SP4 12SP5 15 15SP1 15SP2 15SP3 15SP4 15SP5	6.5U3 6.7U1 6.7U2 6.7U3 7.0 7.0b 7.0U1 7.0U2 7.0U3 8.0U1	7.7 7.8 7.9 8.2 8.3 8.4 8.5 8.6 8.7 8.8	3.4.6.1	· 6P400
SAS RAID controller card (EP\$40)	MC-0JSR71		MCX0JSR71	А	А	A	7.6 7.7 7.8 8.0 8.1 8.2 8.3 8.4 8.5 8.6	12SP4 12SP5 15 15SP1 15SP2 15SP3	6.5U3 6.7U1 6.7U2 6.7U3 7.0 7.0b 7.0U1	7.7 7.8 7.9 8.2 8.3 8.4 8.5 8.6 8.7	3.4.6.1	* EP\$40
RAID controller card (EP580i)	MC-0JSR81		MCX0JSR81				8.7 8.8	15SP4	7.0U2 7.0U3 8.0U1	7.7		
RAID controller card (EP540e)	MC-0JSRC1		MCX0JSRC1	A	A	A	9.0 9.1 9.2 9.3 7.6 7.7		8.001	7.8 7.9 8.2	3.4.6.1	* EP580i
				А	А	A	7.8 8.0 8.1 8.2 8.3 8.4 8.5 8.6 8.7 8.8 9.0 9.1 9.2 9.3	12SP4 12SP5 15 15SP1 15SP2 15SP3 15SP4	6.5U3 6.7U1 6.7U2 6.7U3 7.00 7.0b 7.0U1 7.0U2 7.0U3 8.0U1	NA	NA	· EP540a
Flash Back-up Unit for EP420i Flash Back-up Unit for EP5x0i	MC-0JFB61 MC-0JFB41		MCX0JFB61 MCX0JFB41	-	-				-			
Flash Back-up Unit for EP540e	MC-0JFB81		MCX0JFB81	-	Ė	Ė	-			÷		
RAID Advanced SW Option CacheCade 300GB Hard Disk Drive (512n/12Gbps/15,000rpm)	MC-0KLA51 MC-5D8771		MCX6KLA51 MCX5DS771	A	A	A	A	A	A	A	A	
600GB Hard Disk Drive (512n/12Gbps/15,000rpm)	MC-5DS961 MC-5DSA51		MCX5DS961 MCX5DSA51	A	A	A	A	A	A	A	A	
			MCX5DS781	Α	Α	Α	Α	А	A	Α	A	
900GB Hard Disk Drive (512n/12Gbps/15,000rpm) 300GB Hard Disk Drive (512n/12Gbps/10,000rpm)	MC-5DS781			А	A	A	A	A	A	A	A	
900/GB Hard Disk Drive (512n112/Gbps115,000rpm) 300/GB Hard Disk Drive (512n112/Gbps110,000rpm) 600/GB Hard Disk Drive (512n112/Gbps110,000rpm) 900/GB Hard Disk Drive (512n112/Gbps110,000rpm)	MC-SDS781 MC-SDS971 MC-SDSA61		MCX5DS971 MCX5DSA61	А	Α.							
9000B Hard Disk Drive (512v1/20lps/15,000rpm) 9000B Hard Disk Drive (512v1/20lps/10,000rpm) 12/TB Hard Disk Drive (512v1/20lps/10,000rpm)	MC-5DS971 MC-5DSA61 MC-5DSB41		MCX5DSA61 MCX5DSB41	A	А	Α	Α	A	A	A	A	
8000B Hard Diss Dive (\$12x120bps15,000ps) 3000B Hard Diss Dive (\$12x120bps15,000ps) 3000B Hard Diss Dive (\$12x120bps10,000ps) 3000B Hard Diss Dive (\$12x120bps10,000ps) 3000B Hard Diss (\$12x120bps10,000ps) 3000B Hard Diss Dive (\$12x120bps10,000ps) 127B Hard Diss Dive (\$12x120bps10,000ps) 127B Hard Diss Dive (\$12x120bps10,000ps) 24TB Hard Diss Dive (\$12x120bps10,000ps)	MC-5DS971 MC-5DSA61		MCXSDSA61 MCXSDSB41 MCXSDSC21 MCXSDSD11	Α						A A	A A	
80008 Hard Data Drive (512hr/100part 5.00bpet) 30008 Hard Data Drive (512hr/100part 5.00bpet) 80008 Hard Data Drive (512hr/100part 5.00bpet) 80008 Hard Data Drive (512hr/100part 5.00bpet) 80008 Hard Data Drive (512hr/100part 5.00bpet) 90008 Hard Data Drive (512hr/100part 5.00bpet) 1.8778 Hard Data Drive (512hr/100part 6.00bpet) 1.8778 Hard Data Drive (512hr/100part 6.00bpet) 2.478 Hard Data Drive (512hr/100part 6.00bpet) 2.478 Hard Data Drive (512hr/100part 6.00bpet)	MC-5DS971 MC-5DSA61 MC-5DSB41 MC-5DSC21		MCX5DSA61 MCX5DSB41 MCX5DSC21	A A A	A A A	A A A	A A A	A A A	A A A	A A	A A	
90008 Hard Dail O May (\$1247-050pen*10,000pen) 90008 Hard Dail O Dail (\$1247-050pen*10,000pen) 128 Hard Dail O Dail (\$1247-050pen*10,000pen) 128 Hard Dail O Dail (\$1247-050pen*10,000pen) 128 Hard Dail O Dail (\$1247-050pen*10,000pen) 90008 Bald Ball Dail (\$1247-050pen*10,000pen) 90008 Bald Ball Dail O (\$1247-050pen*10,000pen) 90008 Bald Ball Dail O (\$1247-050pen*10,000pen) 90008 Bald Ball Dail O (\$1247-050pen*10,000pen)	MC-5DS971 MC-5DSA61 MC-5DSB41 MC-5DSC21 MC-5DSD11 MC-5DG821 MC-5DG921 MC-5DGA21		MCXSDSA61 MCXSDSB41 MCXSDSC21 MCXSDSD11 MCXSDG821 MCXSDG921 MCXSDG921	A A A A A	A A A A	A A A A	A A A A	A A A A	A A A A	A A A A	A A A A	
00008 Hext David One (12 Not 10 Open 1	MC-5DS971 MC-5DSA61 MC-5DSB41 MC-5DSC21 MC-5DSD11 MC-5DG821 MC-5DG921		MCXSDSA61 MCXSDSB41 MCXSDSC21 MCXSDSD11 MCXSDGB21 MCXSDGB21	A A A A	A A A A	A A A	A A A A A	A A A A	A A A A	A A A	A A A	
00008 Herd David Order, 1000/pm; 10008 Herd David Order, 1000/pm; 11780 Herd David Order, 1000/pm; 1180 Herd David	MC-5D5971 MC-5D5841 MC-5D5841 MC-5D5C21 MC-5D5C21 MC-5D5C11 MC-5D5C21		MCXSDSA61 MCXSDSB41 MCXSDSC21 MCXSDSC21 MCXSDSC21 MCXSDG821 MCXSDG921 MCXSDG921 MCXSDG931 MCXSDG931 MCXSDG931	A A A A A A	A A A A A A	A A A A A	A A A A A A	A A A A A A	A A A A A A	A A A A A A	A A A A A	
9000B Hard Stab One (15 Not 200per) (200per) 1,787 Not Ose (15 Not 200per) (200per) 1,787 Stab Stab Stab Ose (15 Not 200per) (200per) 1,887 Stab Stab Stab Ose (15 Not 200per) (200per) 1,887 Stab Stab Stab Ose (15 Not 200per) (200per) 1,880 Stab Stab Ose (15 Not 200per) (200per)	MC-SDS971 MC-SDS861 MC-SDS861 MC-SDS841 MC-SDSC21 MC-SDSD11 MC-SDG821 MC-SDG821 MC-SDG831 MC-SDG831 MC-SDG831 MC-SDG831 MC-SDG831 MC-SDG831 MC-SDG831 MC-SDG831		MCXSDSA61 MCXSDSB41 MCXSDSC21 MCXSDSC21 MCXSDG821 MCXSDG821 MCXSDG831 MCXSDG831 MCXSDG831 MCXSDG831 MCXSDG831 MCXSDG831 MCXSDG831 MCXSDG831	A A A A A A A A	A A A A A A A	A A A A A A	A A A A A A A	A A A A A A A	A A A A A A A	A A A A A A	A A A A A A A	
90008 Hest Chik One (6 1241-100per) 0.000per) 90008 Hest Chik One (6 1241-100per) 0.000per) 900008 Hest Chik One (6 1241-100per) 0.000per) 900008 Hest Chik One (6 1241-100per) 0.000per) 900008 Hest Chik One (6 1241-100per) 0.000per) 178 Hest Chik One (6 1241-100per) 0.000per)	MC-SDS971 MC-SDS861 MC-SDS861 MC-SDS861 MC-SDS961 MC-SDS911 MC-SDG921 MC-SDG921 MC-SDG921 MC-SDG931 MC-SDG931 MC-SDG931 MC-SDG931		MCXSDSAB1 MCXSDSB41 MCXSDSC21 MCXSDSC21 MCXSDSC21 MCXSDG821 MCXSDG921 MCXSDG921 MCXSDG931 MCXSDG931 MCXSDG931 MCXSDG931 MCXSDG931	A A A A A A A A	A A A A A A A A	A A A A A A A	A A A A A A A A	A A A A A A A A	A A A A A A A A	A A A A A A	A A A A A A A	
00008 Hext David One (15 24th 200per) 0000999 00008 Hext David One (15 24th 200per) 0000999 00008 Hext David One (15 24th 200per) 0000999 00008 Hext David One (15 24th 200per) 0000999 178 Badd Sand David (15 24th 200per) 0000999	MC-5D9271 MC-5D9371 MC-5D9361 MC-5D9361 MC-5D9361 MC-5D9321 MC-5D9321 MC-5D9321 MC-5D9331		MCKSDS461 MCKSDS841 MCKSDS621 MCKSDS621 MCKSDS621 MCKSD621 MCKSD6221 MCKSD6321 MCKSD6331	A A A A A A A A A	A A A A A A A A A	A A A A A A	A A A A A A A	A A A A A A A	A A A A A A A A A	A A A A A A A A A	A A A A A A A A	
9000B Herd Stab. One (15 Not 20 Sperin COOPer) 9000B Herd Stab. One (15 Not 20 Sperin COOPer) 9000B Herd Stab. One (15 Not 20 Sperin COOPer) 9000B Herd Stab. One (15 Not 20 Sperin COOPer) 9000B Herd Stab. One (15 Not 20 Sperin COOPer) 1.78 Not 60 Sperin (15 Not 20 Sperin COOPer) 1.78 Not 60 Sperin (15 Not 20 Sperin COOPer) 1.78 Not 60 Sperin (15 Not 20 Sperin COOPER) 1.78 Not 60	MC-5D5971 MC-5D5861 MC-5D5841 MC-5D5821 MC-5D5021 MC-5D5021 MC-5D5021 MC-5D5021 MC-5D6321 MC-5D631		MCXSDSA61 MCXSDSB41 MCXSDSC21 MCXSDSC21 MCXSDGB21 MCXSDGB21 MCXSDGB31	A A A A A A A A	A A A A A A A A	A A A A A A A	A A A A A A A A	A A A A A A A A A	A A A A A A A A	A A A A A A A	A A A A A A A A	
00008 Herd Stab. One (15 Not 200per) 0000999 (10 Not 20 No	MC-509971 MC-509841 MC-509841 MC-509841 MC-509821 MC-509821 MC-509821 MC-509821 MC-509821 MC-509821 MC-509831		MCXSDS461 MCXSDS641 MCXSDS641 MCXSDS621 MCXSDG621 MCXSDG631 MCXDG631 MCXDG63	A A A A A A A A A A A A A A A A A A A	A A A A A A A A A A A A A A A A A A A	A A A A A A A	A A A A A A A A	A A A A A A A A A A A A A A A A A A A	A A A A A	A A A A A A	A A A A A A A A A A A A A A A A A A A	
9000B Herd Stab One (15 Not 200per) 5000Per (10 Not 10 Not	MC-509871 MC-509861 MC-509861 MC-509861 MC-509861 MC-5098621 MC-509821 MC-509821 MC-509821 MC-509821 MC-509821 MC-509821 MC-509821 MC-509831 MC-509831 MC-509831 MC-509831 MC-509831 MC-509831 MC-509831 MC-509831 MC-509831		MCXSDS481 MCXSDS6841 MCXSDS621 MCXSDS621 MCXSDS621 MCXSD621 MCXSD621 MCXSD631 MCXSD6	A A A A A A A A A A A A A A A A A A A	A A A A A A A A A	A A A A A A A	A A A A A A A A	A A A A A A A A A	A A A A A A A A A A A A A A A A A A A	A A A A A A	A A A A A A	
00008 Hext Data One (15 Jahr 100per) 00009 00009 Hext Data One (15 Jahr 100per) 00009	MC-509971 MC-509841 MC-509841 MC-509841 MC-509821 MC-509011 MC-509021 MC-509021 MC-509021 MC-509021 MC-509021 MC-509021 MC-509021 MC-509031 MC-509031 MC-509031 MC-509031 MC-509031 MC-5099831 MC-509031 MC-509031 MC-509831		MCXSDS841 MCXSDS841 MCXSDS051 MCXSDS051 MCXSDS051 MCXSDG021 MCXSDG021 MCXSDG021 MCXSDG031 MCXSGG031 MCXGG031	A A A A A A A A A A A A A A A A A A A	A A A A A A A A A A A A A A A A A A A	A A A A A A A	A A A A A A A	A A A A A A A A A A A A A A A A A A A	A A A A A A A A A A A A A A A A A A A	A A A A A A	A A A A A A	
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15.Availalbe OS (2)

16.Restrictions Feb. 26, 2024 Ver. 6.1

The following functions are restricted as of July 2019.

	billowing functions are restricted as of July 2019.		
No.			
	Intel 10GbE LAN cards [MC*0JXEK*] (X710-DA2) can be mounted up to eight per PPAR.		
	"Intel TXT" does not work.		
	Intel 10GbE-T LAN cards [MC*0JXEJ*] (X550-T2) does not work on Windows OS with Legacy mode.		
4			
	mounted to the same chassis.		
5	Mellanox 25/40/100Gb LAN cards [MC*0JFE11/MC*0JFE41/MC*0JFE71], Mellanox Infiniband cards do		
	work in the same Partition.		
6	Intel TXT function of Windows Server 2016 does not work with PRIMEQUEST.		
7	In the Legacy mode, the installation of Windows OS cannot be done to the M.2 flash device		
-	[MC*5FB741/MC*5FB751]. Please use the uEFI mode.		
	TPM module does not work with Windows Server 2019.		
	The iSCSI does not work with VMware 6.5.		
	Address range mirror is not supported with VMware.		
	Secure Boot does not work with Linux OSes.		
	EP540i, EP580i [MC*0JSR71/MC*0JSR81] and EP540e don't work with Extended Partition.		
13	Infiniband cards do not work with Extended Partition.		
14	Don't update the firmware of QLE269x and QLE274x [MC*0JFCP*/MC*0JFCQ*/MC*0JFCK*/MC*0JFCL*] to		
	8.08.05 or later, if they are on PCI-BOX with Extended Partition.		
	M.2 Flash device with only SLES12 SP4 are supported. Other OSes are planned.		
16	Oracle Linux/VM do not support SAN-Boot.		
17	Apply the firmware PB19033 or later for the following CPUs.		
	Intel Xeon Platinum 8260 [MC*3BKC1*/ MC*2BKC1*/ MC*1BKC11]		
18	When using Extended Partitioning function with SLES15, apply the firmware PB19054 or later.		
19	Quad channel LAN card (10GBASE-T) MC*0JXF11 is not supported on Windows Server.		
20	When using a dual channel SAS array controller card (12 Gbps) 4 GB cache (MC*0JSRC*), apply the		
20	firmware PB19061 (BIOS 01.21 version) or later.		
21	When using M.2 flash device [MC*5FB741/MC*5FB751/MC*5FB771], apply the firmware PB19043 or later.		
22	When using eLCM function, apply the firmware PB19053 or later.		
23	Apply the firmware PB19053 or later for the following CPUs.		
	Intel Xeon Gold 6262V[MC*3BRC11], 6244[MC*3BNL11], 6240L[MC*3BNF41], 6240M[MC*3BNF21],		
	6238L[MC*3BND41], 6238M[MC*3BND21], 6238[MC*3BND11], 6234[MC*3BPL11], 6226[MC*3BNJ11],		
	6222V[MC*3BPE11]		
24	When using PCI passthrough and allocating more than 1.5 GB of guest OS memory on RHEL KVM or SLES		
	KVM, increase the amount of memory per guest to the amount allocated to the guest OS as follows.		
	Host OS Type Increase Memory		
	RHEL 6/KVM 2GB RHEL 7/KVM 1.5 GB RHEL 8/KVM 1.5 GB SLES/KVM 512 MB SLES/XEN: 2.25 GB		
	If the great CC is Windows Dhysically showed devices is and society		
	If the guest OS is Windows, Physically shared devices is not available.		
	Use Virtualized and Emulated Devices or Paravirtualized devices.		
	DCI pagethrough improved device performance clightly but dischlar the migration and limits the victorial		
	PCI passthrough improves device performance slightly but disables the migration and limits the virtual		
	machine snapshot. Check for these limitations before deciding whether to use PCI passthrough.		
	For more information, places contact the following email address		
	For more information, please contact the following email address.		
	PCI Pass-Through Technical Contact: contact-pcipaththrou@cs.jp.fujitsu.com		

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Change Report

Date	Order number	Changes
kwi. 02, 2019		Ver. 1.0
lip. 02, 2019		Ver. 2.0
wrz. 17, 2019		Ver. 3.0
lis. 15, 2019		Ver. 4.0
Jun.10, 2020		Ver. 5.0
kwi. 01, 2020		Ver. 5.1
Oct. 1, 2020		Ver. 5.2
Feb. 1, 2021		Ver. 5.3
Mar. 1, 2021		Ver. 5.4
May. 1, 2021		Ver. 5.5
Aug. 1, 2021		Ver. 5.6
Mar. 29, 2022		Ver. 5.7
Nov. 28, 2022		Ver. 5.8
Dec. 25, 2023		Ver. 6.0
Feb. 26, 2024		Ver. 6.1