



PRIMEQUEST 2800E

System configurator and order-information guide

May, 2016

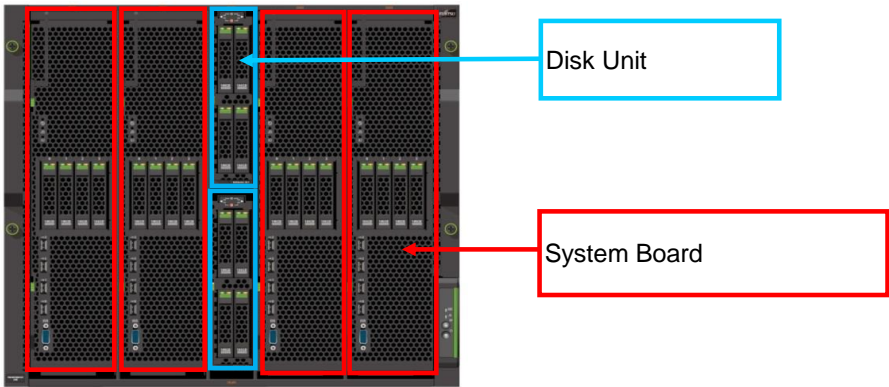
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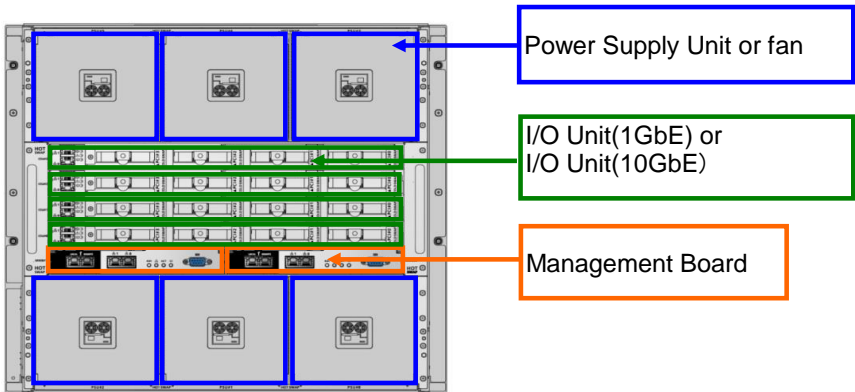
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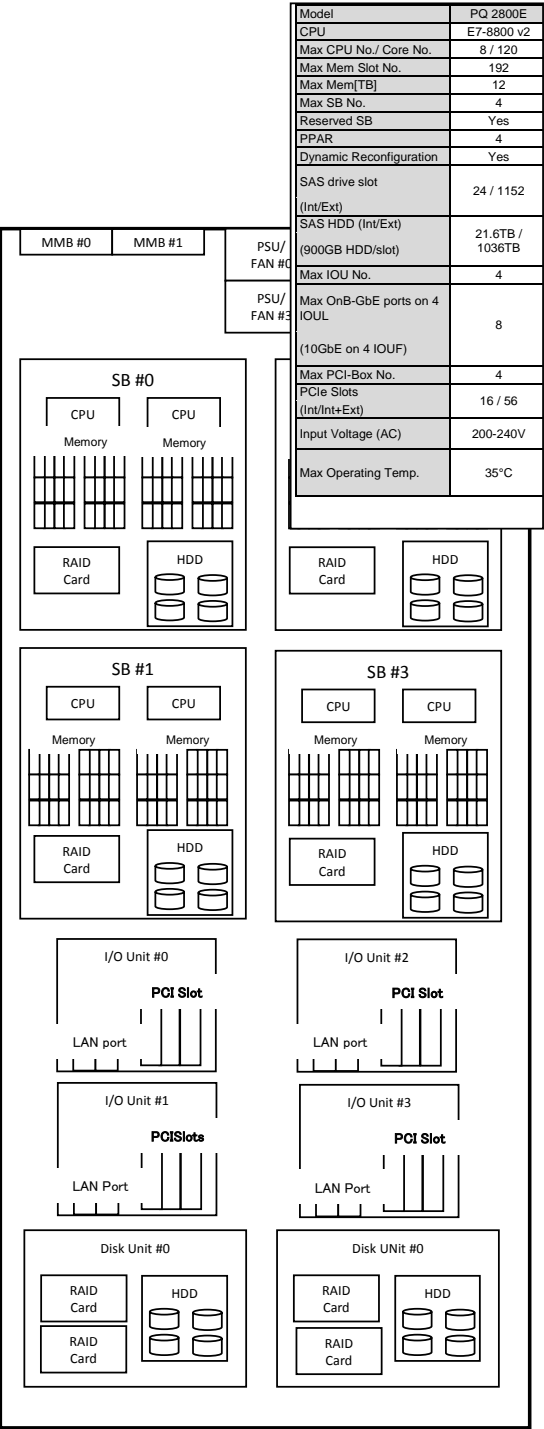
PRIMEQUEST SERVER

Front side



Rear side





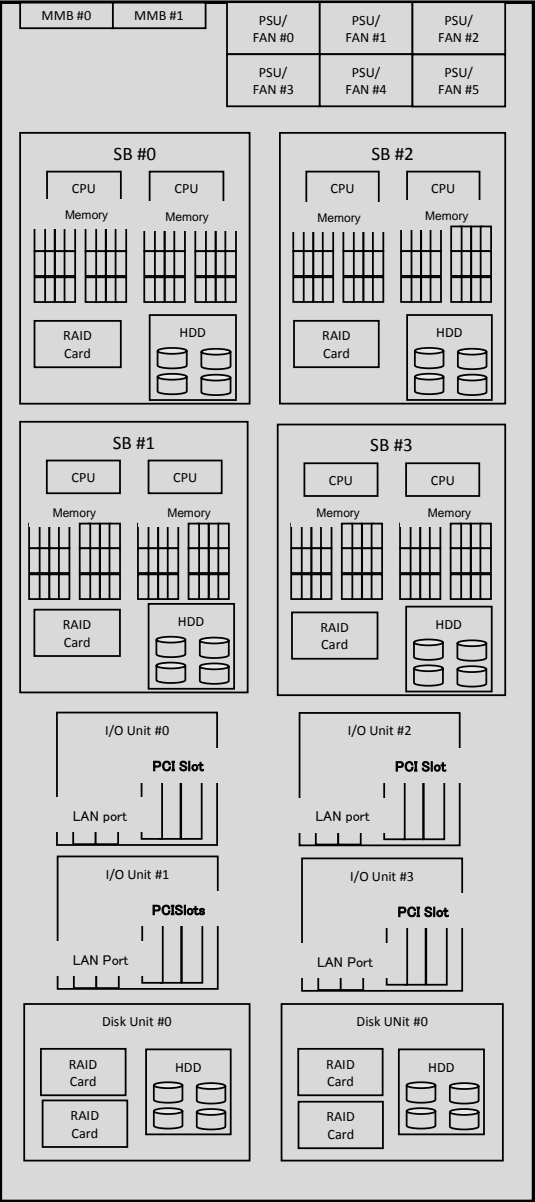
Part Numbers Legend:

Part numbers:
MX-***** as products shipped with base units via factory
(FTS: EK component)

MCX***** as products shipped separately from base units (Loose Delivery)
(FTS: LL component)

PQ2800E Spec

➔ I. Base Unit



One product

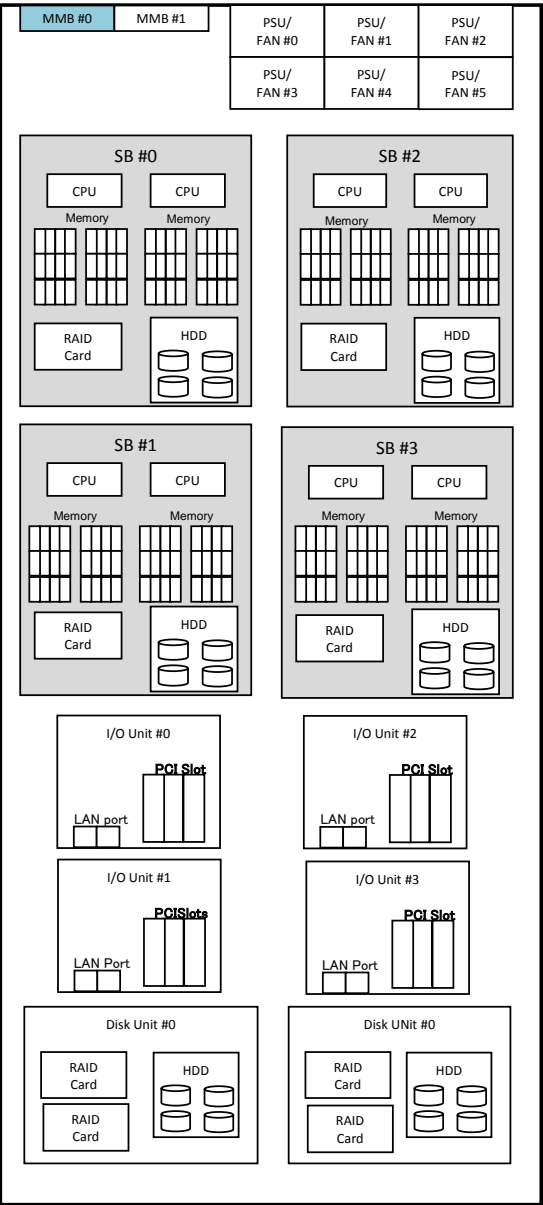
- Products below must be included in PO with Base Unit.
- System Board, CPU, Memory, IO Unit, PSU, power cord
 - The products below are included in base unit.
 - One unit of Management Board and one Rack Mount Kit

PRIMEQUEST 2800E Base Unit

MCF3AC111

- Rack mount type
- Min. one System Board must be ordered. Max. four System Board can be mounted.
- Min. one I/O Unit must be ordered. Max. four I/O Unit can be mounted.
- Max. four PCI Box can be installed.
- One Managemant Board(MMB) comes as standard. For MMB redundancy, one MMB can be added.
 - Four LAN ports per MMB
- Min. three PSU must be ordered. PSU does not come as standard.
- Fan must be ordered. Fan units must be mounted in empty space where PSU is not mounted.
- Power cords must be ordered. The number must be same as PSU.
- Rack space : 10U

II. System Board



At least one product must be chosen

Max. 4 pcs per base unit
SB with TPM and SB without SB
can be mixed in base unit

System Board

MC-3HSB51 MCX3HSB51 (LD)

- This system board does not include security chip called TPM
- Min one System Board must be ordered. Max. four System Boards can be mounted,
- CPU nor memory is not mounted on System Board as standard.
- Min. one CPU Module and min. one memory must be mounted on one System Board.
- If one CPU is mounted on one System Board
 - Min. one memory having two DIMMs must be mounted. Max. 12 memory having 24 DIMMs can be mounted.
- If two CPUs are mounted on one System Board
 - Min. two memories having four DIMMs can be mounted. Max. 24 memories having 48 DIMMs can be mounted.
- One SAS RAID Controller can mount four disk drives such as HDD or SSD

System Board

MC-3HSBX1 MCX3HSBX1 (LD)

- This system board includes security chip called TPM
- This product is not orderable from China
- Min one System Board must be ordered. Max. four System Boards can be mounted,
- CPU nor memory is not mounted on System Board as standard.
- Min. one CPU Module and min. one memory must be mounted on one System Board.
- If one CPU is mounted on one System Board
 - Min. one memory having two DIMMs must be mounted. Max. 12 memory having 24 DIMMs can be mounted.
- If two CPUs are mounted on one System Board
 - Min. two memories having four DIMMs can be mounted. Max. 24 memories having 48 DIMMs can be mounted.
- One SAS RAID Controller can mount four disk drives such as HDD or SSD

CPU

Available combination of CPU and memory

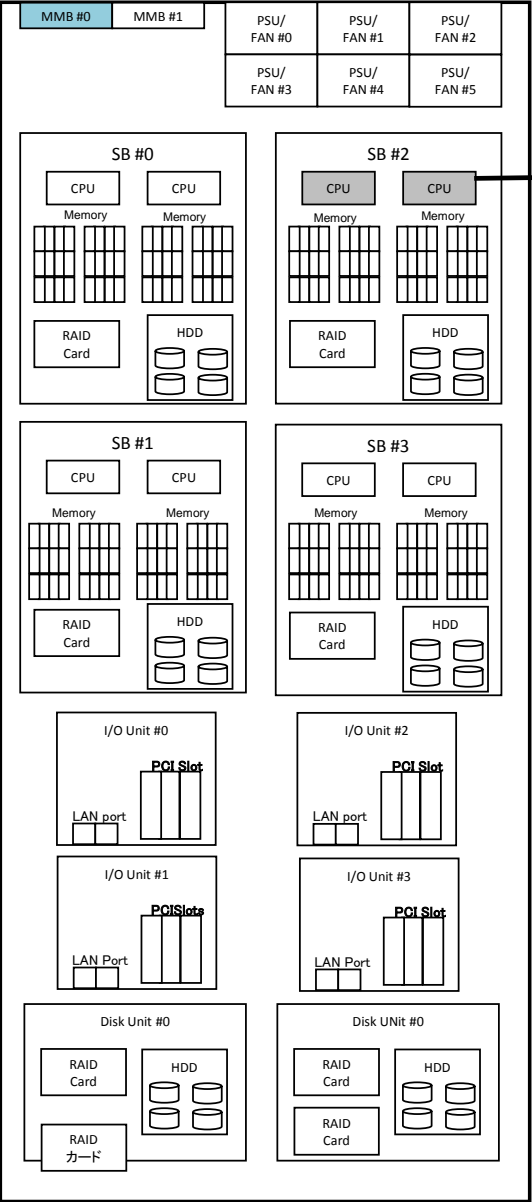
		Number of CPU	
		1	2
Memory in units of two DIMMs	1	A	A
	2	B	A
	3	B	B
	~	B	B
	12	B	B
	13	C	B
	~	C	B
	24	C	B

Functions below are NOT AVAILABLE with System Board with TPM (MC-3HSBX1).

- Reserved SB
- Dynamic Partition

- A : This combination of CPU and memory quantities is available.
For given number of CPUs, this quantity for memory is the minimum quantity.
- B : This combination of CPU and memory quantities is available.
- C : This combination of CPU and memory quantities is NOT available.

* If a partition includes multiple SB, two CPU must be mounted to each of SB in the partition.



One product must be chosen

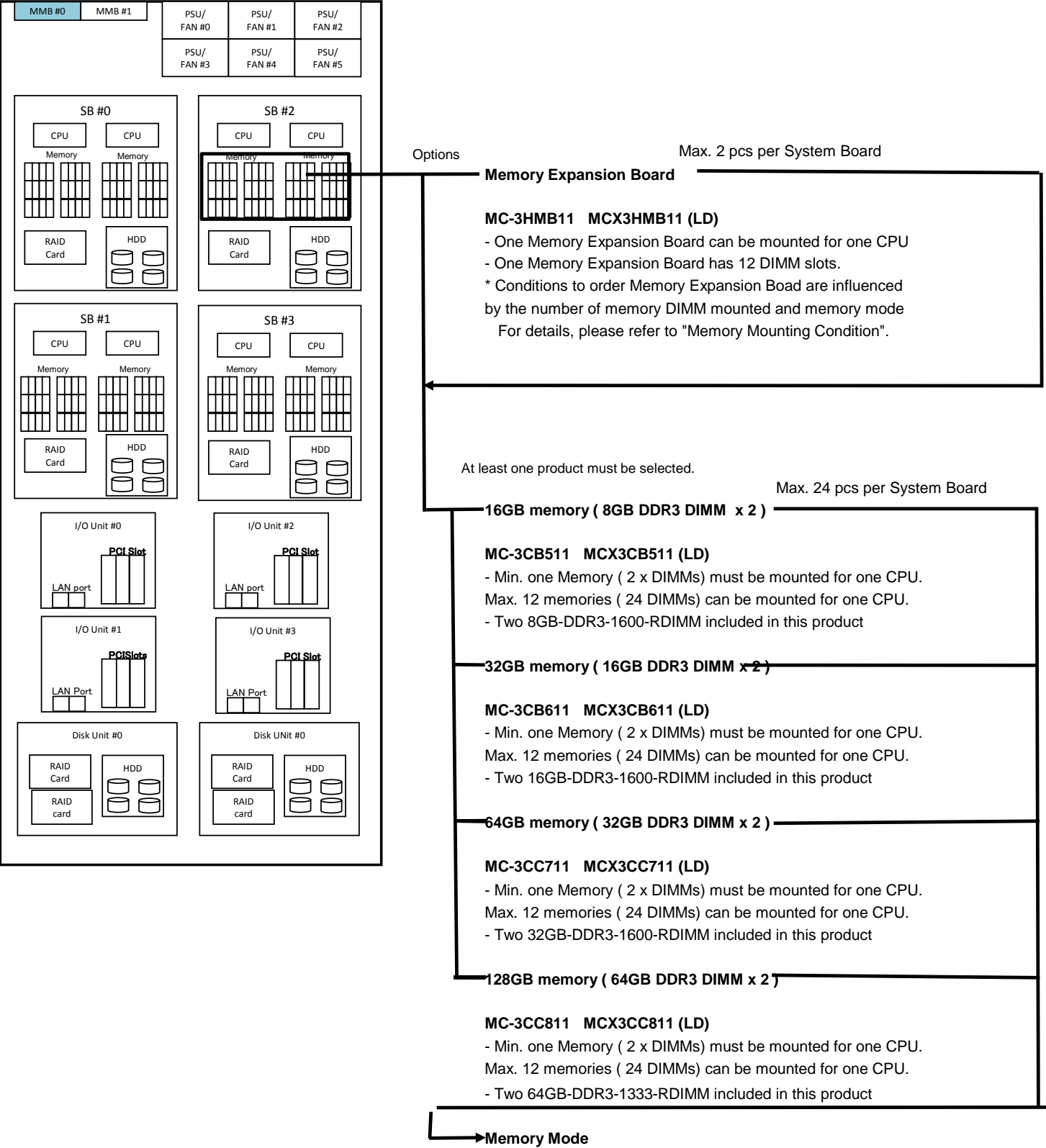
- CPU(Xeon E7-8893v2)
CPU Module(3.4GHz/6 core/37.5MB cache)
MC-3BCD11 MCX3BCD11 (LD)
- Max. two CPU per System Board. Min one CPU per System Board
- CPU(Xeon E7-8890v2)
CPU Module(2.80GHz/15 core/37.5MB cache)
MC-3BCA11 MCX3BCA11 (LD)
- Max. two CPU per System Board. Min one CPU per System Board
- CPU(Xeon E7-8880v2)
CPU Module(2.50GHz/15 core/37.5MB cache)
MC-3BCE11 MCX3BCE11 (LD)
- Max. two CPU per System Board. Min one CPU per System Board
- CPU(Xeon E7-8870v2)
CPU Module(2.30GHz/15 core/30.0MB cache)
MC-3BCF11 MCX3BCF11 (LD)
- Max. two CPU per System Board. Min one CPU per System Board
- CPU(Xeon E7-8857v2)
CPU Module(3.0GHz/12 core/30.0MB cache)
MC-3BCG11 MCX3BCG11 (LD)
- Max. two CPU per System Board. Min one CPU per System Board
- CPU(Xeon E7-8850v2)
CPU Module(2.3GHz/12 core/24.0MB cache)
MC-3BCB11 MCX3BCB11 (LD)
- Max. two CPU per System Board. Min one CPU per System Board

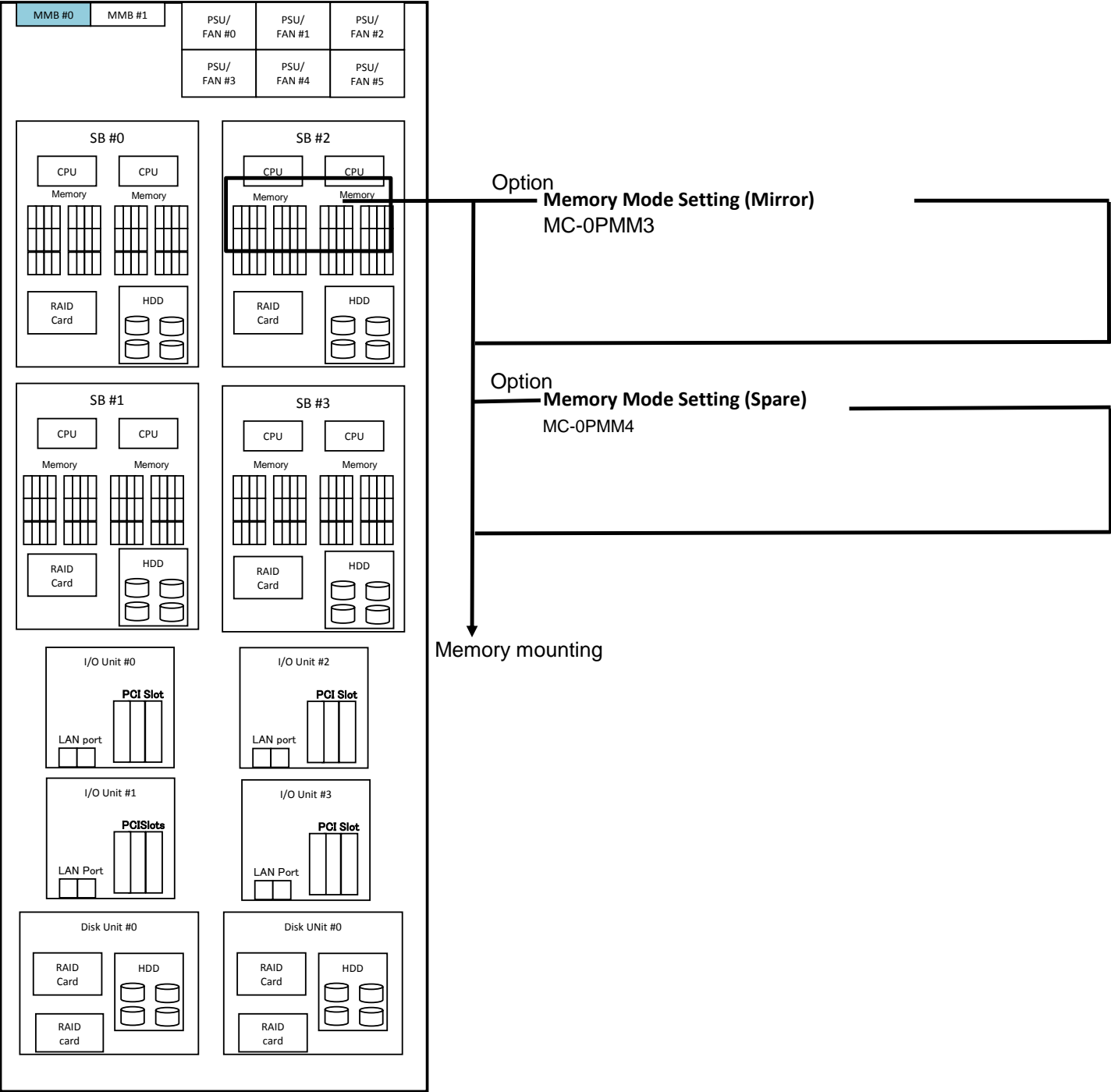
CPU mounting condition

- The single CPU product can be mounted to one partition
- If a partition includes multiple SB, two CPU must be mounted to each of SB in the partition.

# of SB in one partition	# of CPU in one partition
1SB	1
	2
2SB	4
3SB	6
4SB	8

Memory





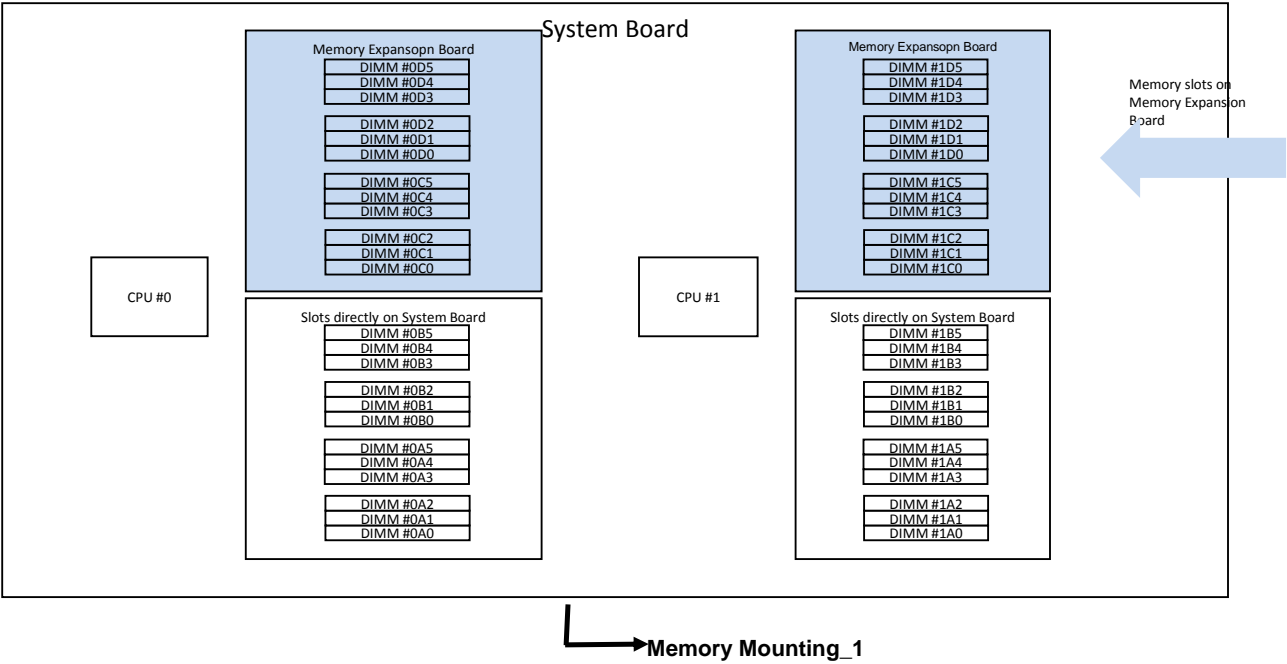
1. Memory and Memory Expansion Board
- (1) Memory referred in this page has two DIMMs.
 - (2) Each CPU has 12 memory DIMM slots on System Board and another 12 memory DIMM slots on Memory Expansion Board.
- If Memory Expansion Board is ordered.
- (3) Please confirm the condition that order of Memory Expansion Board is necessary.

Combination of Memory Mode, number of Memory, and Memory Expansion Board

Memory Mode	# of Memory (# of DIMM)	Necessity for Memory Expansion Board
Normal Mode	1(2)	Not needed
	2~(4~)	Necessary
Mirror Mode	1(2)	Not needed
	2(4)	Not needed
	3~(6~)	Necessary
Spare Mode	1(2)	Not needed
	2(4)	Not needed
	3(6)	Not needed
	4~(8~)	Necessary

2. Memory Mounting Conditions

- (1) All memory slots directly on System Board and on Memory Expansion Board must contain the same Memory Product.
- (2) One partition cannot have a mixed Memory Products. Only allowable combination is 8GB RDIMM and 16GB RDIMM.
- (3) Units of memory expansions : One set (two DIMMs) for Normal Mode, two set (four DIMMs) for Mirror Mode, three sets (six DIMMs) for Spare Mode



	PCI Address Mode (Bus Mode) (MC-0PPA2) is NOT ordered		PCI Address Mode (Bus Mode) (MC-0PPA2) is ordered	
	One PPAR has 4 SB	One PPAR has 1,2, or 3 SB	One PPAR has 4 SB	One PPAR has 1,2, or 3 SB
	Dynamic Partitioning (Enable) (MC-0PDP2) is ordered	Dynamic Partitioning (Enable) (MC-0PDP2) is NOT ordered	Dynamic Partitioning (Enable) (MC-0PDP2) is ordered	Dynamic Partitioning (Enable) (MC-0PDP2) is NOT ordered
	Case2	Case2	Not applicable	Not applicable
	Case2	Case1	Case1	Case1

For Case 1 installations see page Memory Mounting _2

For Case 2 installations see Page Memory Mounting _3

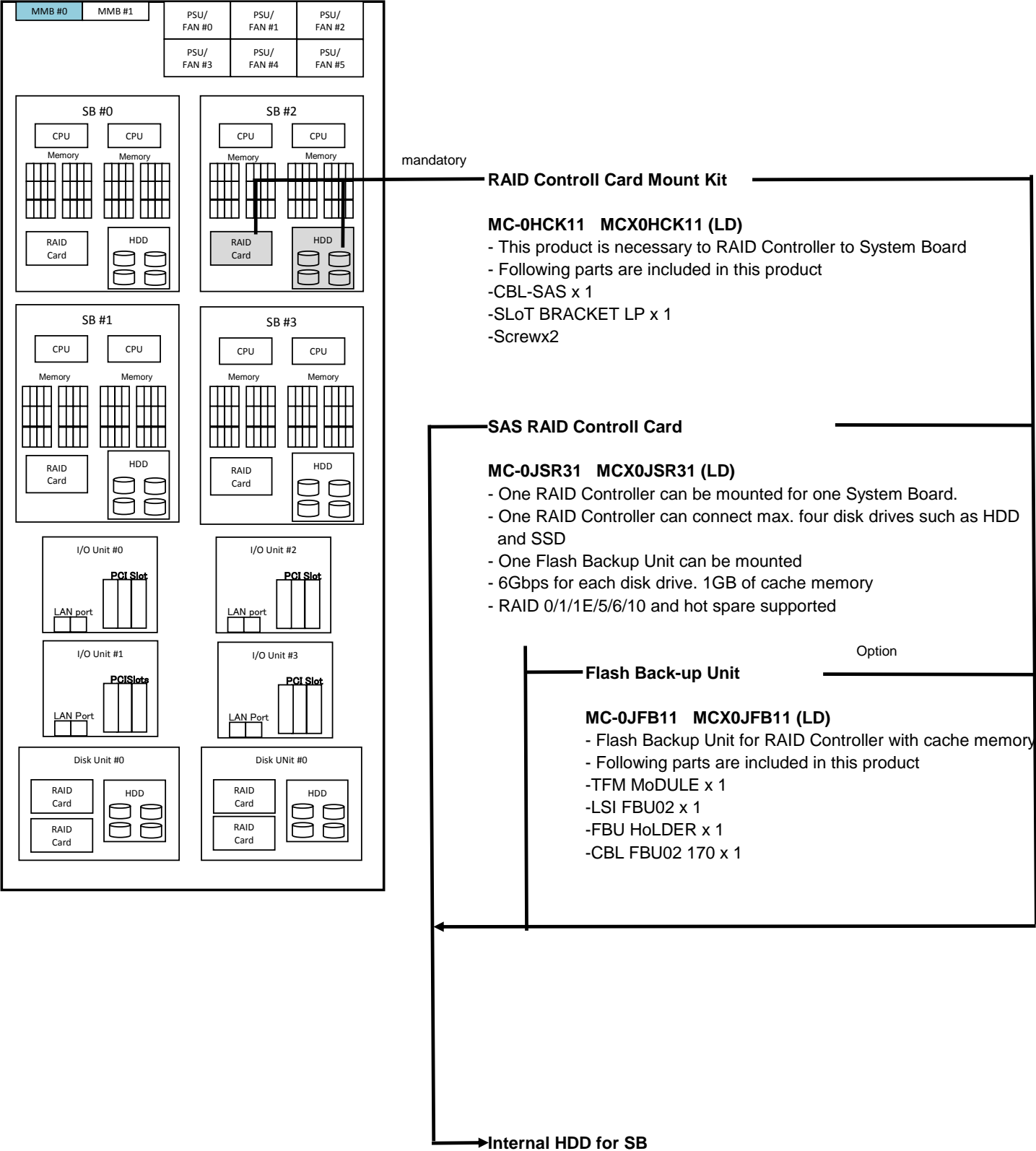
└─→Memory Mounting_2

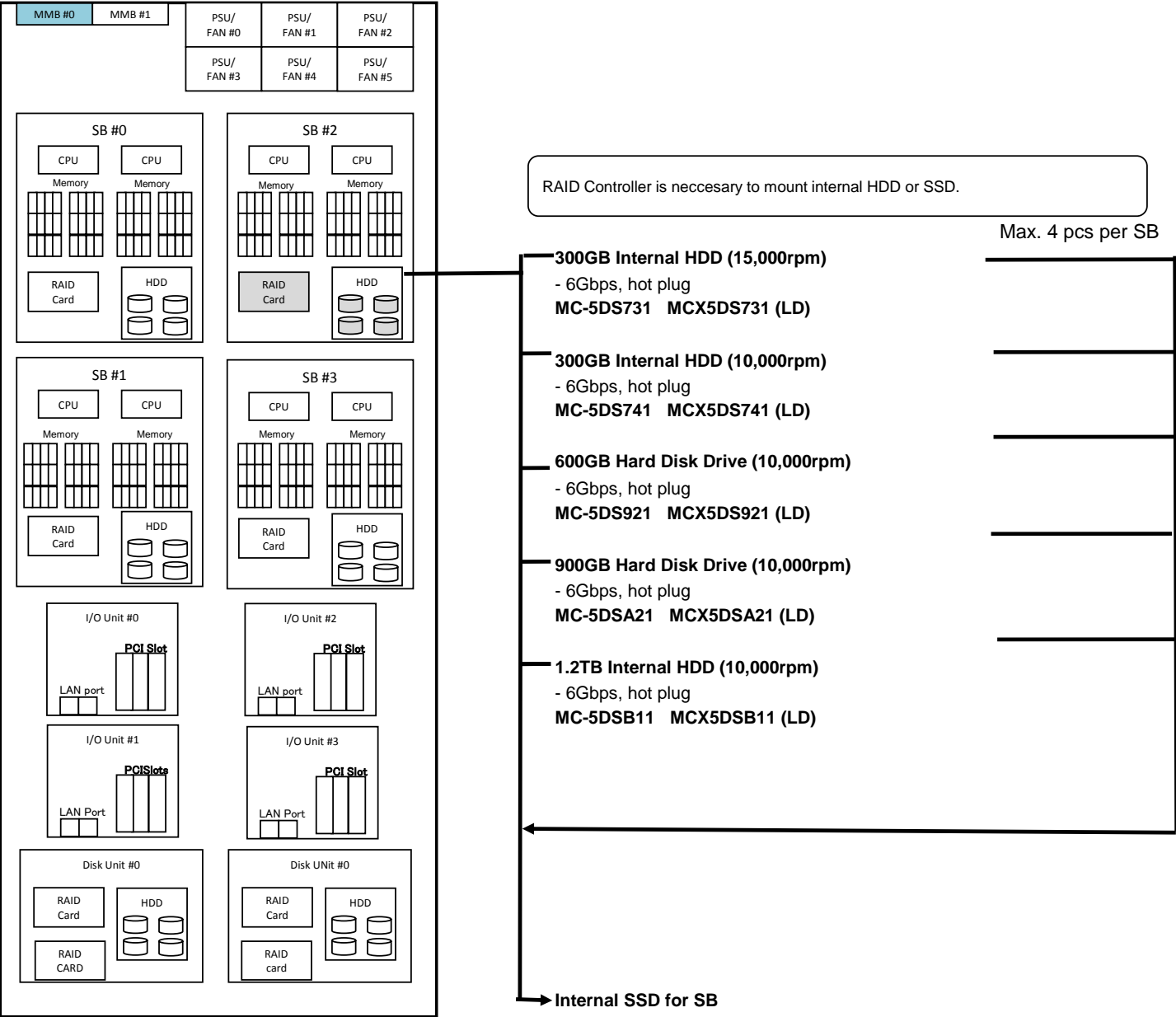
Case 1

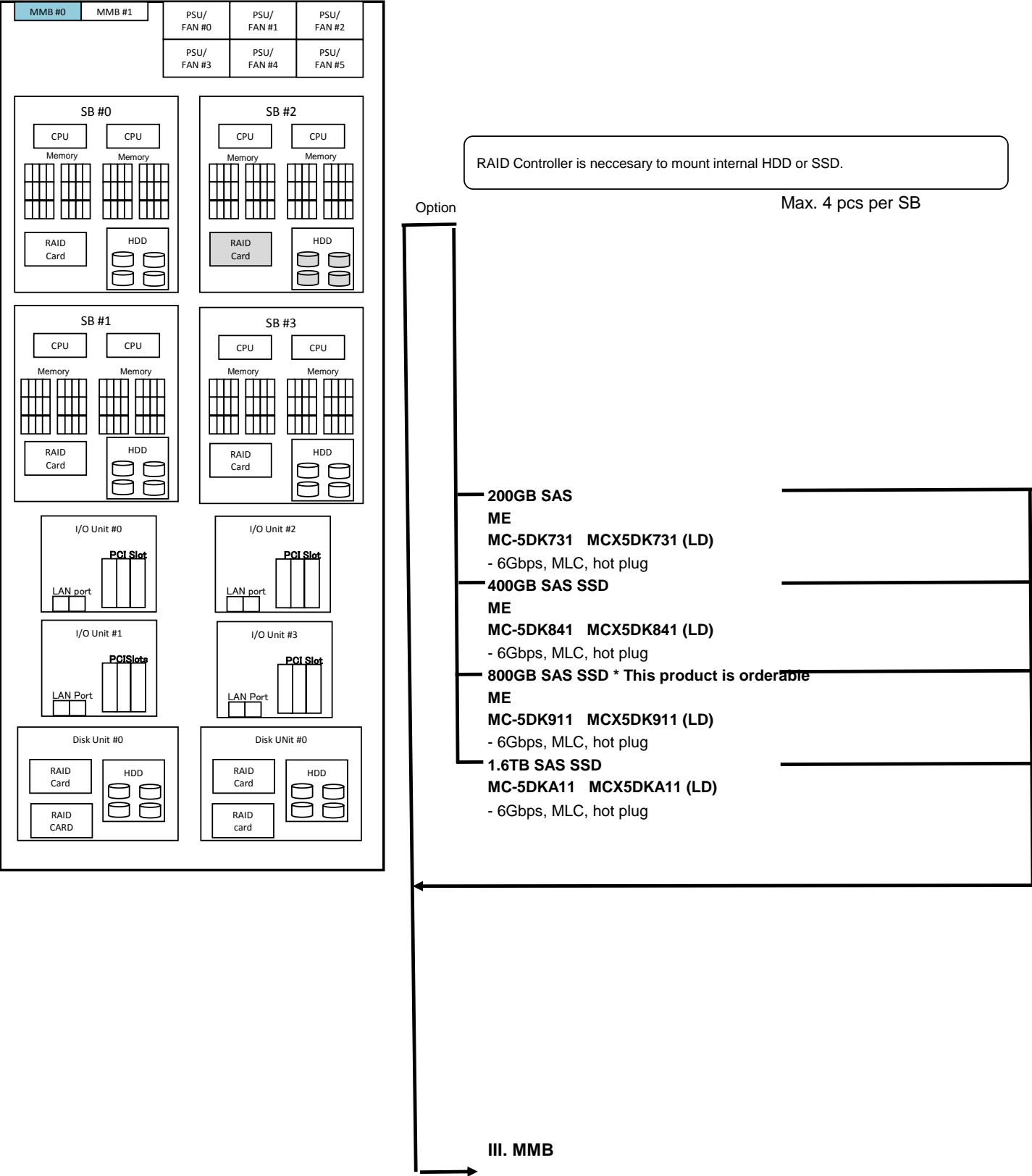
		CPU#0								CPU#1							
		0A0	0A3	0B0	0B3	0C0	0C3	0D0	0D3	1A0	1A3	1B0	1B3	1C0	1C3	1D0	1D3
		0A1	0A4	0B1	0B4	0C1	0C4	0D1	0D4	1A1	1A4	1B1	1B4	1C1	1C4	1D1	1D4
		0A2	0A5	0B2	0B5	0C2	0C5	0D2	0D5	1A2	1A5	1B2	1B5	1C2	1C5	1D2	1D5
Normal (MC-OPMM1)	1	1	5	5	3	3	7	7	2	2	6	6	4	4	8	8	
	9	9	13	13	11	11	15	15	10	10	14	14	12	12	16	16	
	17	17	21	21	19	19	23	23	18	18	22	22	20	20	24	24	
Mirror (MC-OPMM3)	1	1	1	1	3	3	3	3	2	2	2	2	4	4	4	4	
	5	5	5	5	7	7	7	7	6	6	6	6	8	8	8	8	
	9	9	9	9	11	11	11	11	10	10	10	10	12	12	12	12	
Spare (MC-OPMM3)	1	1	5	5	3	3	7	7	2	2	6	6	4	4	8	8	
	1	1	5	5	3	3	7	7	2	2	6	6	4	4	8	8	
	1	1	5	5	3	3	7	7	2	2	6	6	4	4	8	8	

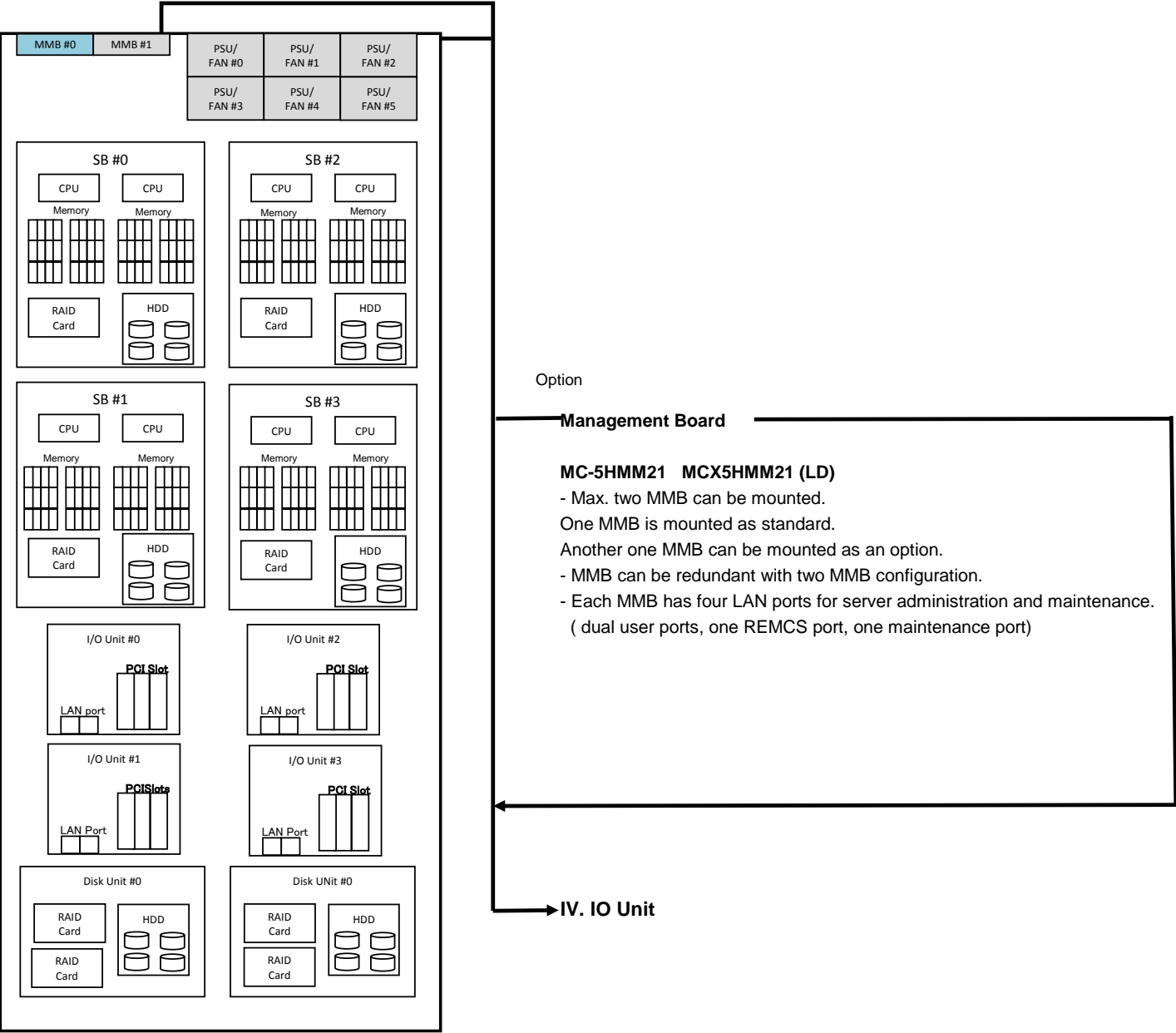
Case 2

		CPU#0								CPU#1							
		0A0	0A3	0B0	0B3	0C0	0C3	0D0	0D3	1A0	1A3	1B0	1B3	1C0	1C3	1D0	1D3
		0A1	0A4	0B1	0B4	0C1	0C4	0D1	0D4	1A1	1A4	1B1	1B4	1C1	1C4	1D1	1D4
		0A2	0A5	0B2	0B5	0C2	0C5	0D2	0D5	1A2	1A5	1B2	1B5	1C2	1C5	1D2	1D5
Normal (MC-OPMM1)	1	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2	
	3	3	4	4	3	3	4	4	3	3	4	4	3	3	4	4	
	5	5	6	6	5	5	6	6	5	5	6	6	5	5	6	6	
Mirror (MC-OPMM3)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Spare (MC-OPMM3)	1	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2	
	1	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2	
	1	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2	

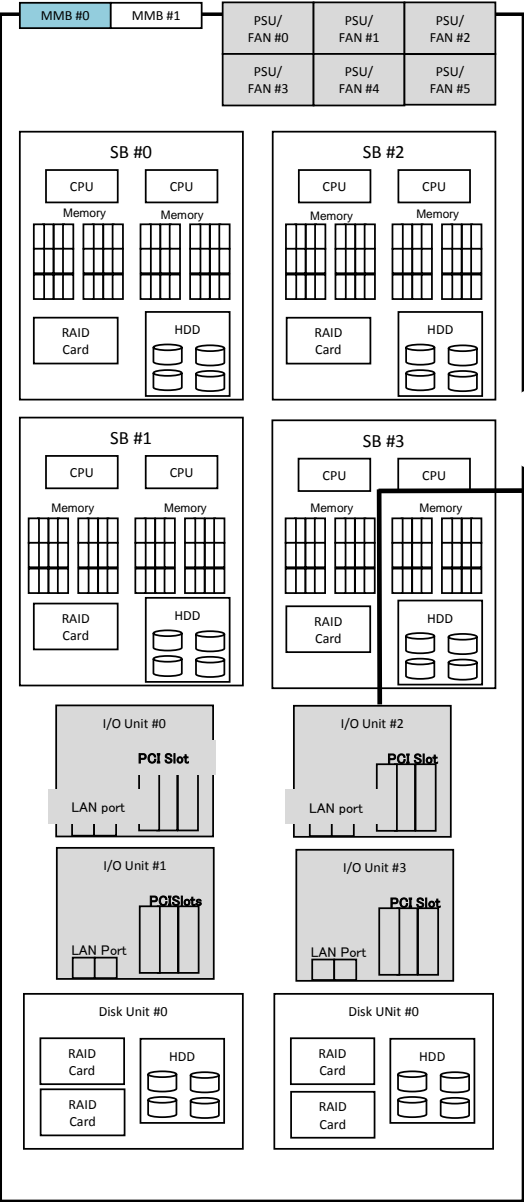








Interface	Ethernet standard	Automatic negotiation
User port	1000BASE-T/ 100BASE-TX/ 10BASE-T	Supported
REMCS port	100BASE-TX/ 10BASE-T	Supported
Maintenannce port	100BASE-TX/ 10BASE-T	Supported



Must be selected

PRIMEQUEST chassis must have min, one I/O Unit for either 1GbE or 10GbE.

I/O Unit(1GbE)

MC-3HUX31 MCX3HUX31 (LD)

- Min one, Max. four I/O units can be mounted.
- Two LAN ports for 1GbE are in one I/O unit.
- Four PCIe slots (LP) per I/O Unit
- One PCI Box can be connected to PQ by mounting PCI Box Connection card. by mounting one card, six slots in PCI Box becomes available.
- PCIe slots in I/O unit cannot be hot pluggable.

I/O Unit(10GbE)

MC-3HUX41 MCX3HUX41 (LD)

- Min one, Max. four I/O units can be mounted.
- Two LAN ports for 10GbE are in one I/O unit.
- Three PCIe slots (1 LP, 2 FH) per I/O Unit
- One PCI Box can be connected to PQ by mounting PCI Box Connection card. by mounting one card, six slots in PCI Box becomes available.
- PCIe slots in I/O unit cannot be hot pluggable.

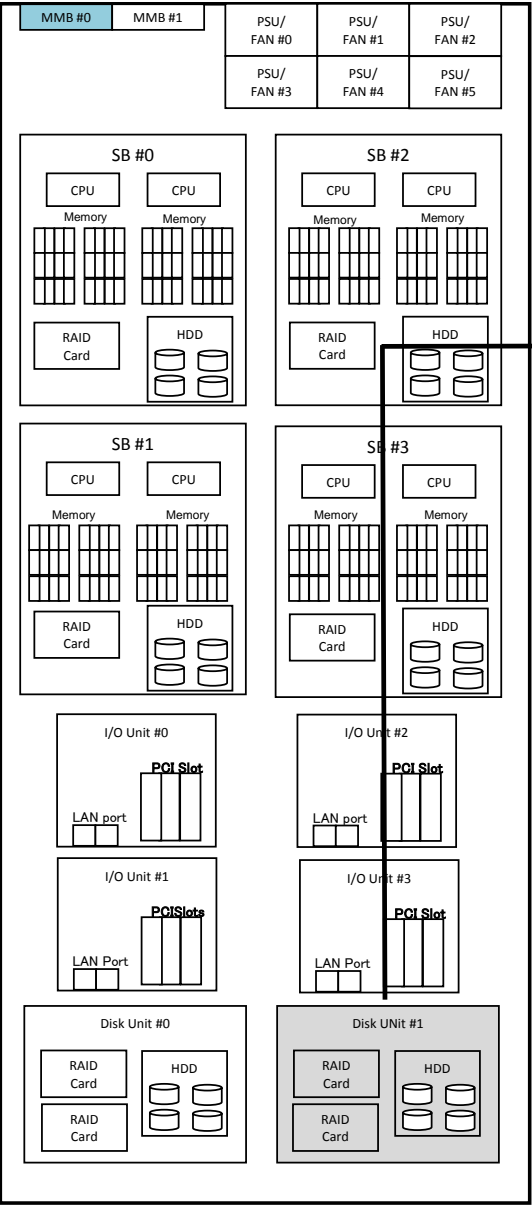
V. Disk Unit

MC-0PPA2 (MEMORY MODE PAGE) IO RESTRICTIONS

- PCI Address Mode (Bus Mode)
- Segment Mode is default

If Bus Mode (PCI Adress Mode) is used in a partition, the partition is restricted as follows

Model	Segment Mode			Bus Mode			Remarks
	SB	IOU	PCI_Box	SB	IOU	PCI_Box	
4skt EP	2	4	4	2	4	4	
8skt EP	4	4	4	4	2	0	4SB configuration: Up to 2 IOUs, Cannot connect PCI-Box
				3	4	3	3SB configuration: Up to 3 PCI-Boxes
				2	4	4	2SB configuration: No restriction
				1	4	4	1SB configuration: No restriction



Disk Unit

Option

Disk Unit
MC-5HDU11 MCX5HDU11 (LD)

- Max. two units per chassis
- Two RAID Controller cards per Disk Unit can be mounted
- One RAID Controller card allows mounting of four disk drives such as HDD or SSD.
- This product includes DUMMP 2.5" WEFo

SAS RAID Control Card
MC-0JSR31 MCX0JSR31 (LD)

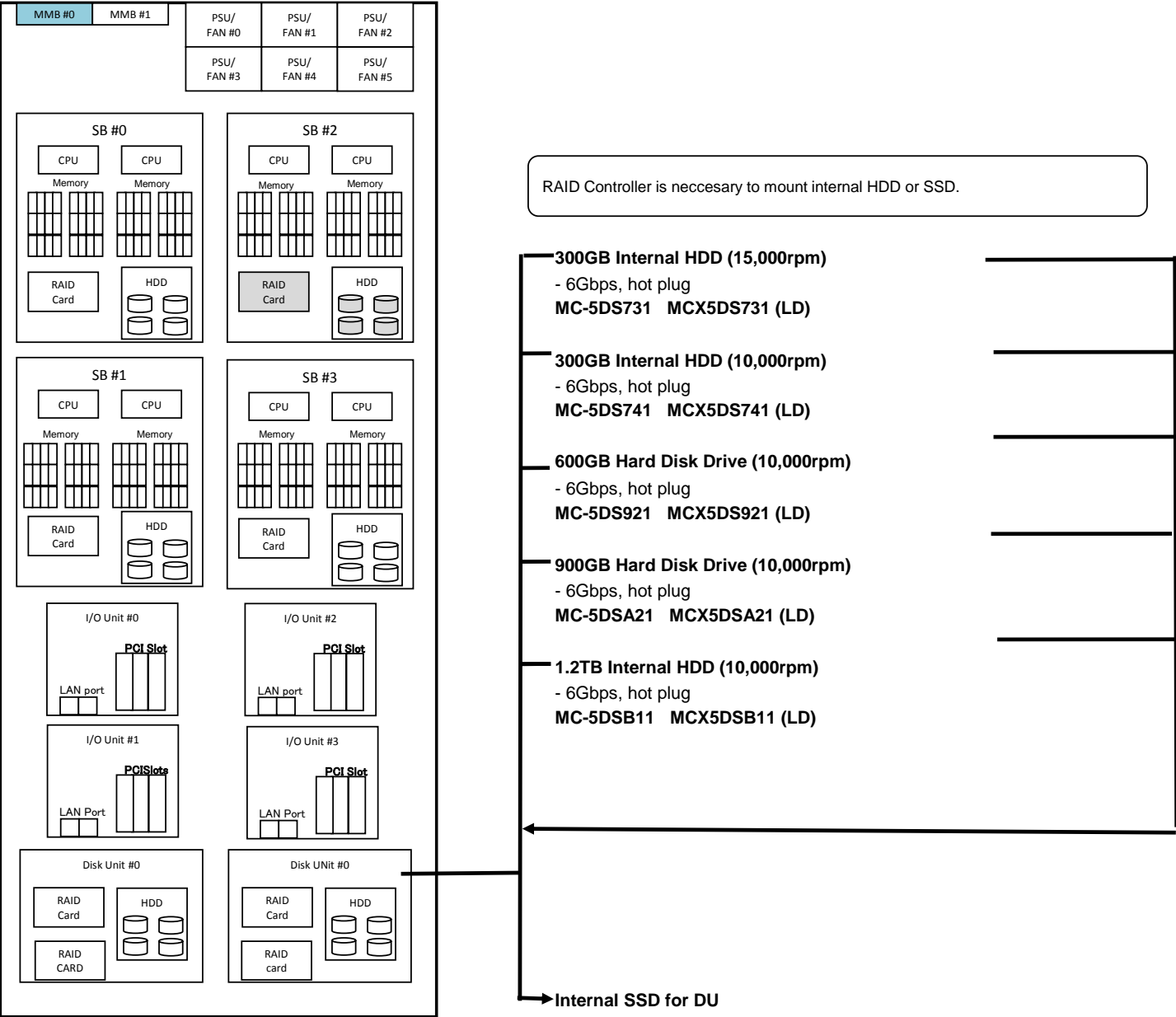
- One Flash Backup Unit can be mounted
- 6Gbps for each disk drive. 1GB of cache memory
- RAID 0/1/1E/5/6/10 and hot spare supported

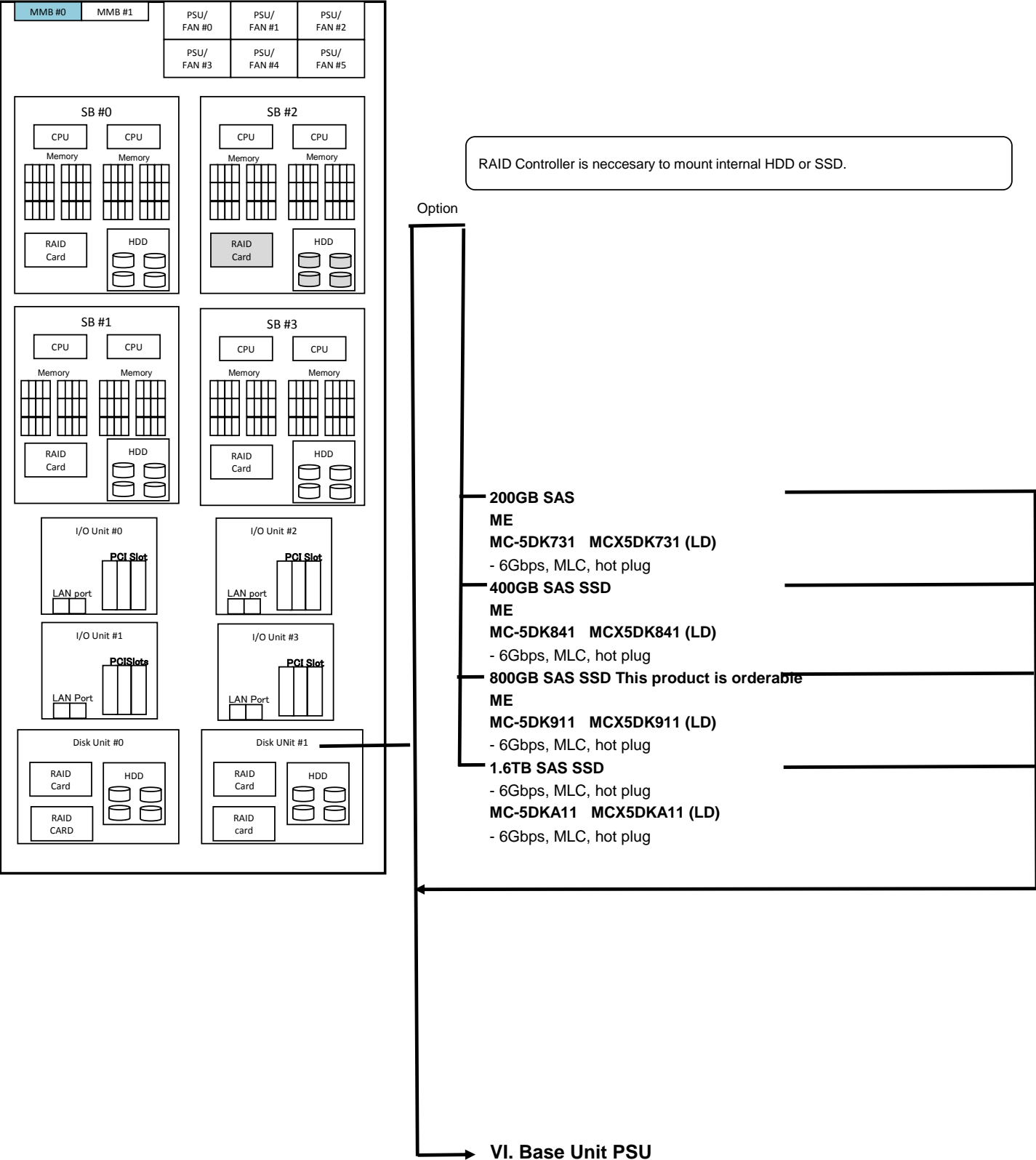
Option

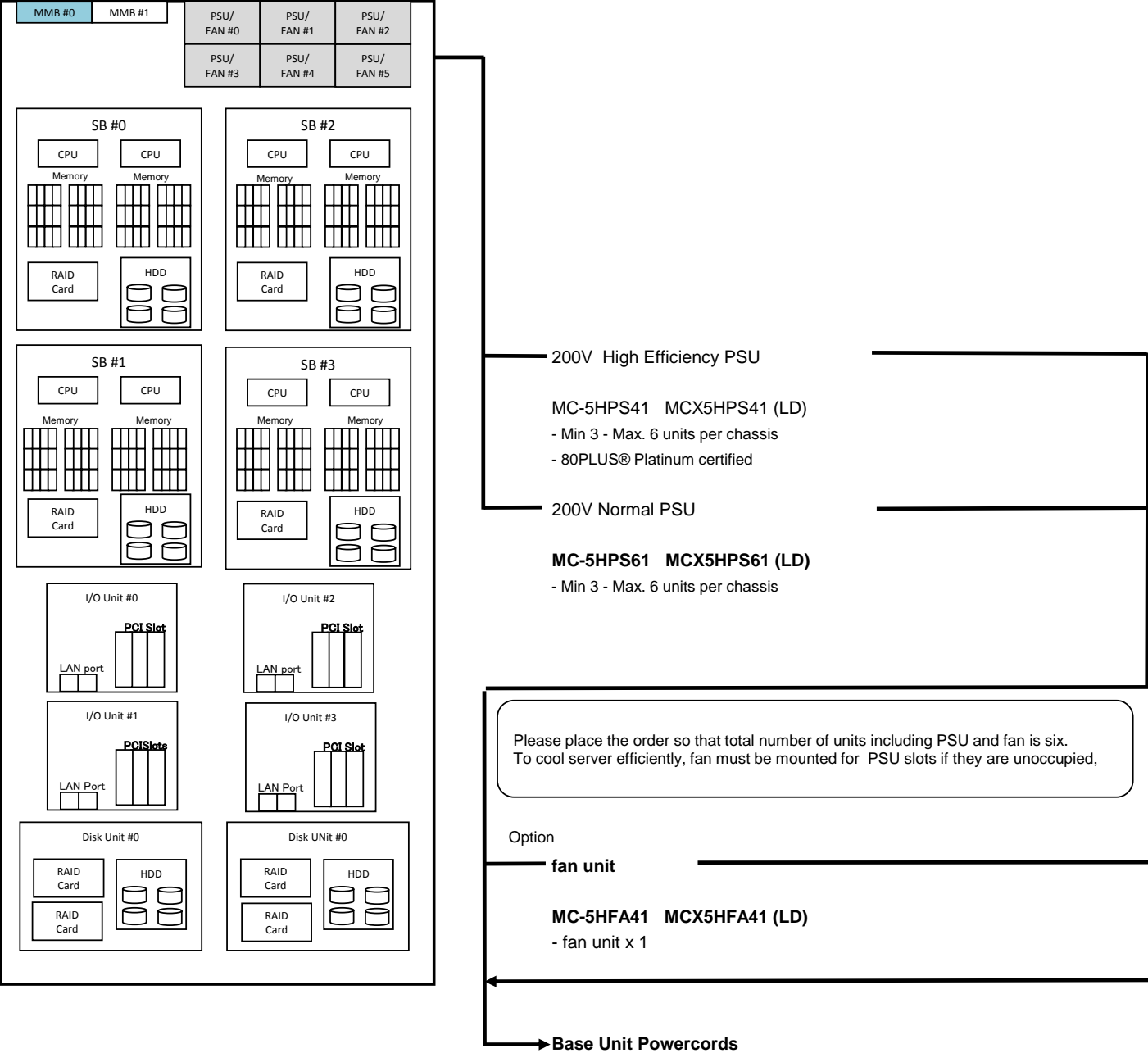
Flash Back-up Unit

MC-0JFB11 MCX0JFB11 (LD)

- Flash Backup Unit for RAID Controller with cache memory
- Following parts are included in this product
- TFM MoDULE x 1
- LSI FBU02 x 1
- FBU HoLDER x 1
- CBL FBU02 170 x 1

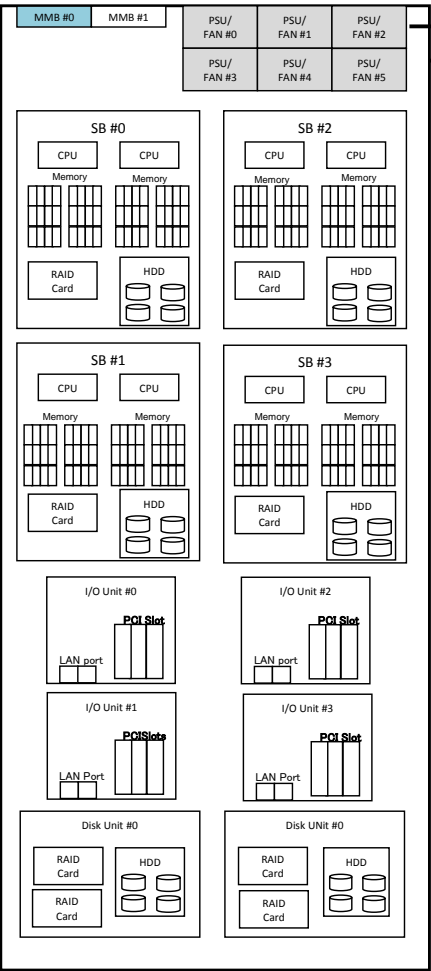






AC Power input	Power feed	Redundancy	# of PSU	PSU Slots	number of PSU and fan		
					PSU	fan	power cord
240V	Single	Not redundant	3	0, 1, 3	3	3	3
		redundant	3+1	0,1,3,4	4	2	4
	Dual	-	3x2	all	6	no	6

- : Dual power feed help supply power even in power feed failure of data center.



power cord

* You must order the same number of power cords with PSU.
All the power cords ordered must be of the same standard.

One must be ordered

200V IEC power cord(3m)

[MC-0HCA83]

One pcs per PSU

- IEC60320 C20, 3m
- power cord x 1

200V IEC power cord (1m)

[MC-0HCA81]

One pcs per PSU

- IEC60320 C20, 1m
- power cord x 1

9. PCI Box

NOTICE FOR PSU AND POWER CORD FOR CEMEA & I, UK& NORMIC



The System Unit PRIMEQUEST includes no PSUs and no power cords!
(S26361-F3151-E300: 16A IEC320 C19 -> 16A IEC320 C20)
Different power cords can be optional ordered as L-Numbers.
(S26361-F3151-L100 or -L200 or -L300 or -L500).
The S26361-F3151-E300 power cords can be used for the socket strips S26361-F2262-E132 (1x3 16A IEC320)
or S26361-F2262-E332 (3x3 16A IEC320) and to different PRIMERGY UPS systems.

For connections out of the rack, there are 3 power cords available (S26361-F3151-L100 or -L200 or -L500).

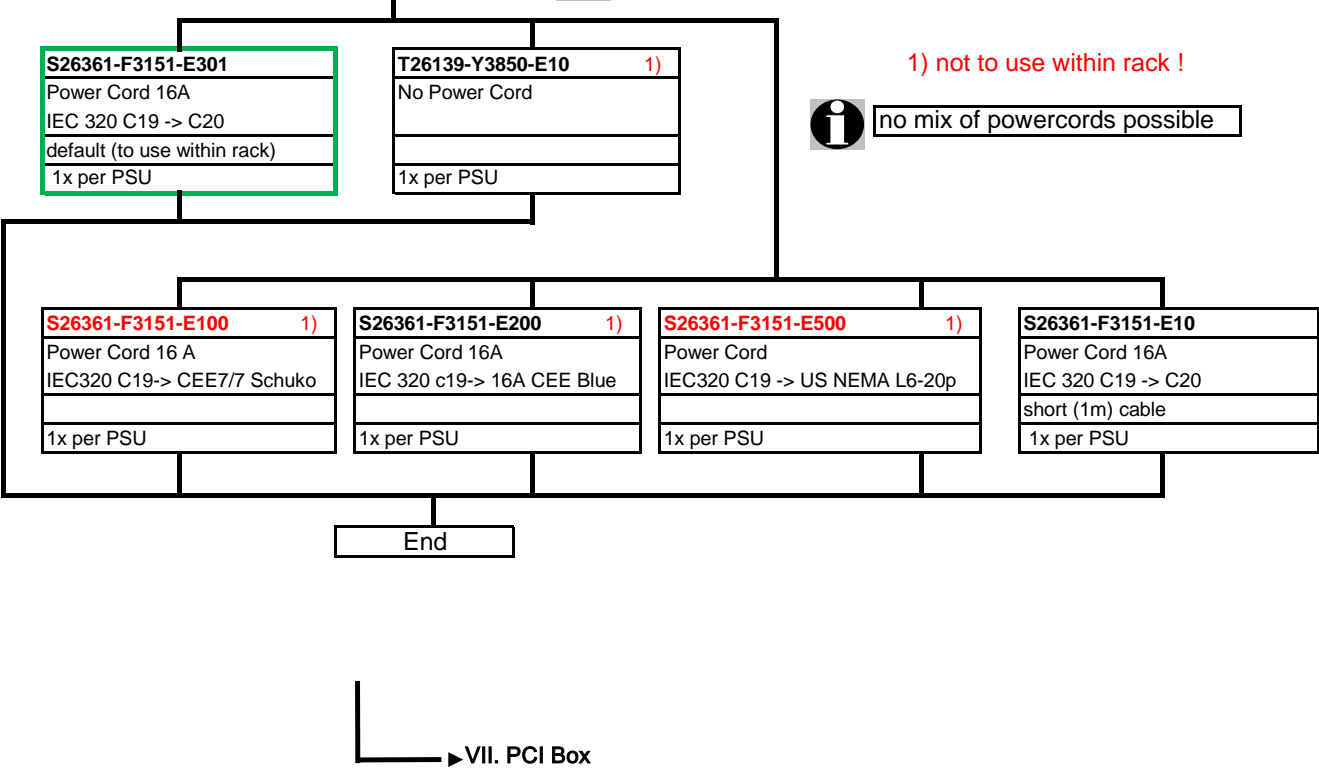


The additional PSU is shipped without a power cord!
Different power cords can be optional ordered as L-Numbers.
(S26361-F3151-L100 or -L200 or -L300 or -L500).



**Power and cooling considerations
see separate sheet**

Base Unit Power Cords **you need one cable for each PSU**





To connect with PCI Boxes, you must mount PCI Box Connection Card (MC-0JPC11) in PRIMEQUEST:
Out of 12 PCIe slots in one PCI Box, 6 PCIe slots can be useable by mounting this card in one of two Link card slots in PCI Box and one of PCIe slots in PRIMEQUEST.
Comes with 12 PCI Hot plug cassettes, NO PSU, NO powercord!

Option

PCI Box

MC-0HPB31 MCX0HPB31 (LD)

- Max. 4 PCI Box connectable to PRIMEQUEST, but notice max. number depends IOU configurations
- One PCI Box has two ports to connect to PRIMEQUEST
One port is used to add six PCIe slots.

If two ports are connected to PRIMEQUEST, 12 slots can be added

- one PSU must be mounted
- one additional PSU for PSU redundancy can be mounted
- fans are mounted as standard with redundant configuration
- Two PCI Box Connection Cards attached to one PCI Box
- 4 RU
- PCI cards are hot pluggable
- Following parts are included in this product
two PCI Box Connection cards, CSP PCI-BOX, IO-PS-DUMMY, RACK MOUNT KIT

PSU for PCI Box

MC-0HPS41 MCX0HPS41 (LD)

1 x PSU or 2 x PSU for redundancy

PCI Box Connection Card *1

MC-0JPC11 MCX0JPC11 (LD)

2 PCI Box Connection Cards for 6 PCI Slots (one for PCI Box and one for the PQ)
(up to 4 to connect 12 PCIe Slots from the PCI Box)

PCI BOX1

*1

- This product includes also following parts.
- PCI_Box connection cable
- PCI Express cable(2M) x2
- PCI Box control cable(2M) x1

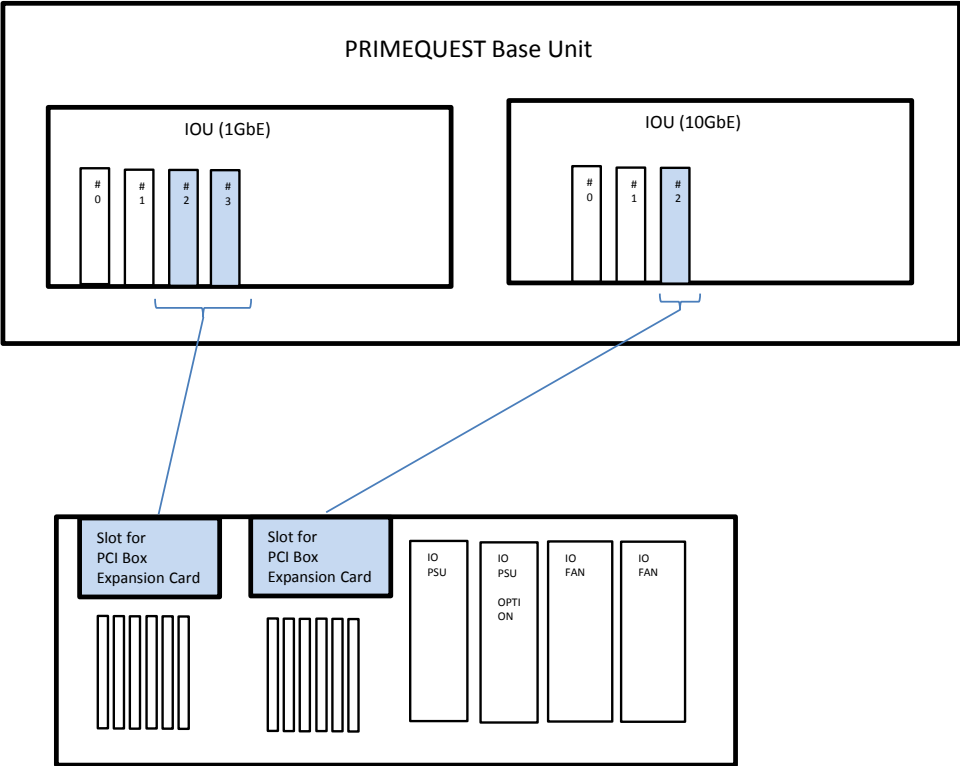
Base Units and PCI Boxes must have the same power supply condition.

AC power input	Power feed	Redundancy	Number of units	Orderable qty	
				PSU	power cord
200V / 100V	Single	Available	1	1	1
		Not available	1+1	2	2
	Dual	-	1x2	2	2

Max. number of PCI Box connectable is determined below

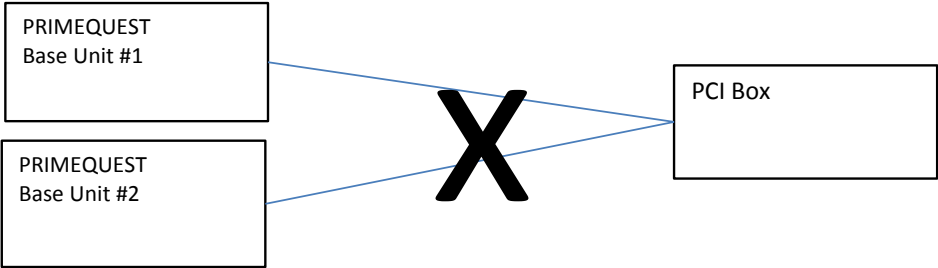
		IOU 1GbE				
		0	1	2	3	4
IOU 10GbE	0	na	1	2	3	4
	1	1	2	3	4	na
	2	2	3	4	na	na
	3	3	4	na	na	na
	4	4	na	na	na	na

PCI Box Expansion Card can be mounted in #2 and #3 slots in IOU (1GbE) and #2 in IOU(10GbE).

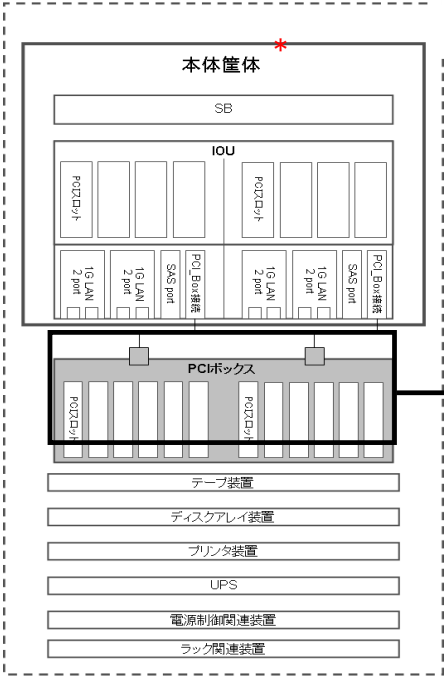


NOTICE

One PCI Box cannot be connected to two different PRIMEQUEST Base Units.



→ PCI BOX Powercords



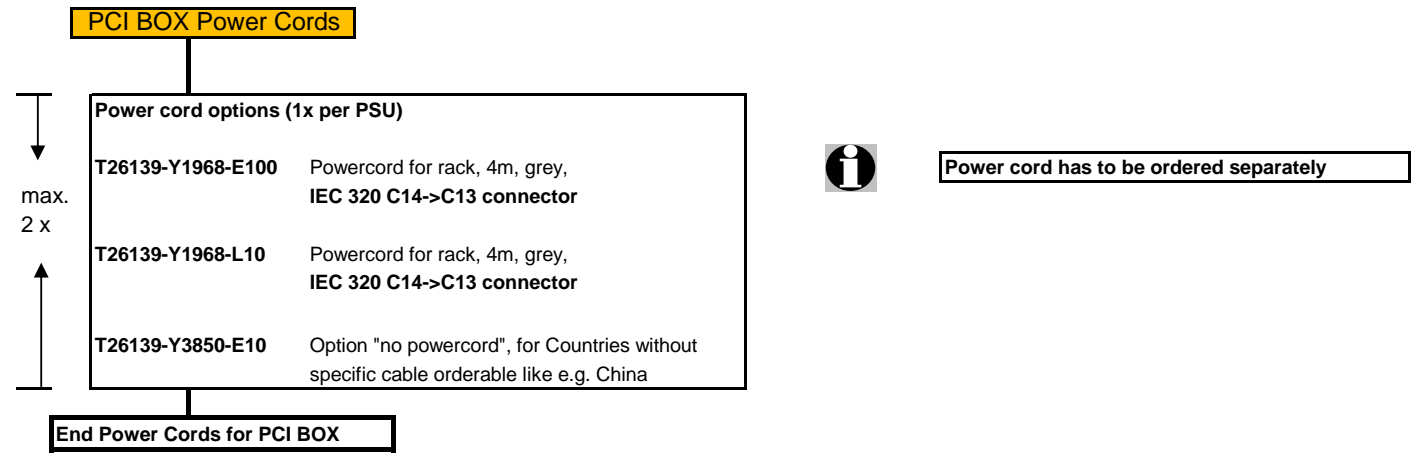
Option

200V IEC AC Cable (3m) for PCI BoX
MC-0HCAB3

200V IEC AC Cable (1m) for PCI BoX
MC-0HCAB1

このページの説明箇所

NOTICE ABOUT PCI BOX POWER CORDS FOR CEMEA & I, UK & NORDIC



➔ VIII. PCI CARDS

Max. 56 cards can be mounted.
I/O Unit (1GbE) : Max. 4 cards per unit
I/O Unit (10GbE) : Max. 3 cards per unit
PCI Box : Max. 12 cards per unit

It is not allowed to mount FCoE card(OCe14102-UX) and 8Gbps/16Gbps FC HBA card(LPe1250, LPe12002/LPe16000, LPe16000) in the same partition.

Release of these products are suspended.

Single Channel 8Gbps Fiber Channel Card MC-0JFC31 MCX0JFC31 LD - LPe1250, Low Profile	
Single Channel 8Gbps Fiber Channel Card MC-0JFC91 MCX0JFC91 LD - LPe1250, Full Height	
Dual Channel 8Gbps Fiber Channel Card MC-0JFC41 MCX0JFC41 LD - LPe12002, Low Profile	
Dual Channel 8Gbps Fiber Channel Card MC-0JFCA1 MCX0JFCA1 LD - LPe12002, Full Height	
Single Channel 16Gbps Fiber Channel Card MC-0JFC71 MCX0JFC71 LD - LPe16000, Low Profile	
Single Channel 16Gbps Fiber Channel Card MC-0JFC72 MCX0JFC72 LD - LPe16000, Full High	
Dual Channel Fiber Channel Card (16Gbps) MC-0JFC81 MCX0JFC81 LD - LPe16002, Low Profile	
Dual Channel Fiber Channel Card (16Gbps) MC-0JFC82 MCX0JFC82 LD - LPe16002, Full High	
Single Channel 8Gbps Fiber Channel Card MC-0JFC51 MCX0JFC51 LD - QLE2560, Low Profile	
Single Channel 8Gbps Fiber Channel Card MC-0JFC52 MCX0JFC52 LD - QLE2560, Full Height	
Dual Channel 8Gbps Fiber Channel Card MC-0JFC61 MCX0JFC61 LD - QLE2562, Low Profile	
Dual Channel 8Gbps Fiber Channel Card MC-0JFC62 MCX0JFC62 LD - QLE2562, Full Height	

PCI CARDS_1

Max. 56 cards can be mounted.
I/O Unit (1GbE) : Max. 4 cards per unit
I/O Unit (10GbE) : Max. 3 cards per unit
PCI Box : Max. 12 cards per unit

Dual Channel 1000BASE-T Card MC-0JGE81 MCX0JGE81 (LD) Eth Ctrl 2x 1GbE [Intel® Ethernet Controller I350] Low Profile. PCI Box is not supported	
Dual Channel 1000BASE-T Card MC-0JGE82 MCX0JGE82 (LD) Eth Ctrl 2x 1GbE [Intel® Ethernet Controller I350] Full Height PCI Box is not supported	
Quad Channel 1000BASE-T Card MC-0JGE91 MCX0JGE91 (LD) Eth Ctrl 4x 1GbE [Intel® Ethernet Controller I350] Low Profile PCI Box is not supported	
Quad Channel 1000BASE-T Card MC-0JGE92 MCX0JGE92 (LD) Eth Ctrl 4x 1GbE [Intel® Ethernet Controller I350] Full Height PCI Box is not supported	
Dual Channel 1000BASE-T Card MC-0JGEA1 MCX0JGEA1 (LD) Eth Ctrl 2x 1GbE [Intel® Ethernet Controller I350] Low Profile. PCI Box is supported	
Dual Channel 1000BASE-T Card MC-0JGEA2 Eth Ctrl 2x 1GbE [Intel® Ethernet Controller I350] Full Height PCI Box is supported	
Quad Channel 1000BASE-T Card MC-0JGEB1 MCX0JGEB1 (LD) Eth Ctrl 4x 1GbE [Intel® Ethernet Controller I350] Low Profile PCI Box is supported	
Quad Channel 1000BASE-T Card MC-0JGEB2 Eth Ctrl 4x 1GbE [Intel® Ethernet Controller I350] Full Height PCI Box is supported	
Dual Channel 10G BASE-T Card MC-0JXE31 MCX0JXE31 (LD) * Eth Ctrl 10GBase-T (RJ45) – Low Profile	
Dual Channel 10G BASE-T Card MC-0JXE32 MCX0JXE32 (LD) * Eth Ctrl 10GBase-T (RJ45) – Full Height	
Dual Channel 10G BASE Card MC-0JXE41 MCX0JXE41 (LD) * Eth Ctrl 2x 10Gb SFP+ - SR/DA, PCIe x8, Intel®10 Gigabit Ethernet Controller Low Profile 10GBASE-CR(TWINAX) cable must be ordered The max quantity is two	
Dual Channel 10G BASE Card MC-0JXE42 MCX0JXE42 (LD) * Eth Ctrl 2x 10Gb SFP+ - SR/DA, PCIe x8, Intel® 10 Gigabit Ethernet Controller Full High 10GBASE-CR(TWINAX) cable must be ordered The max quantity is two	
<div><div><div>Dual Channel 10Gbps LAN Card (SFP+) MC-0JXE51 MCX0JXE51 (LD)</div><div>■10GBASE-CR(TWINAX) cable Please use the 10GBASE-CR(TWINAX) cables bundled with relevant network switches.</div></div></div>	
<div><div>Fujitsu Technology Solutions X86 Server</div><div>PCI CARDS_2</div></div>	29 of 57

Max. 56 cards can be mounted.
I/O Unit (1GbE) : Max. 4 cards per unit
I/O Unit (10GbE) : Max. 3 cards per unit
PCI Box : Max. 12 cards per unit

~~RHEL7 is not available~~
~~Windows 2008 R2 is not available~~
~~Max. 4 pcs per physical partitions is available~~

	Dual Channel FCoE card (10Gbps) LP MC-0JCE61 MCX0JCE61 (LD) Low Profile Orderable from 2014 Nov. 7th.	
	Dual Channel FCoE card (10Gbps) FH MC-0JCE62 MCX0JCE62 (LD) Full Height Orderable from 2014 Nov. 7th.	
	Dual Channel 10Gbps LAN Card (SFP+) MC-0JCE71 MCX0JCE71 (LD) SFP+ Module Multi Mode Fibre 10Gb FCoE OCE14102 Orderable from 2014 Nov. 7th.	
	Dual Channel FCoE card (10Gbps) LP MC-0JCE31 MCX0JCE31 (LD) Low Profile You must order 10G BASE-SR SFP+ Module (MC-0JCE41) or 10GBASE-CR(TWINAX) cables. The max quantity is two.	
	Dual Channel FCoE card (10Gbps) FH MC-0JCE51 MCX0JCE51 (LD) Full Height You must order 10G BASE-SR SFP+ Module (MC-0JCE41) or 10GBASE-CR(TWINAX) cables. The max quantity is two.	
	Dual Channel 10Gbps LAN Card (SFP+) MC-0JCE41 MCX0JCE41 (LD) 10GBASE-CR(TWINAX) Cables Please use the 10GBASE-CR(TWINAX) cables bundled with relevant network switches.	
	Single channel 40Gbps Infiniband HCA card MC-0JHC11 MCX0JHC11 (LD) Full High & comes with additional LP bracket	
	Dual channel 40Gbps Infiniband HCA card MC-0JHC21 MCX0JHC21 (LD) Full High & comes with additional LP bracket	
	Single channel 56Gbps Infiniband HCA card MC-0JHC31 MCX0JHC31 (LD) Full High & comes with additional LP bracket	
	Dual channel 56Gbps Infiniband HCA card MC-0JHC41 MCX0JHC41 (LD) Full High & comes with additional LP bracket	
	PCI CARDS_3	

Max. 56 cards can be mounted.
I/O Unit (1GbE) : Max. 4 cards per unit
I/O Unit (10GbE) : Max. 3 cards per unit
PCI Box : Max. 12 cards per unit

Option

Dual channel 6Gbps SAS RAID Controll Card
MC-0JSR41 MCX0JSR41 (LD) *Procyon-U – LSI2208
Low Profile

Dual channel 6Gbps SAS RAID Controll Card
MC-0JSR42 MCX0JSR42 (LD) *Procyon-U – LSI2208
Full Height

Option

RAID Controller FBU Mount Kit
MC-0HCK21 MCX0HCK21 (LD) *1
Mountable in PCIe slots of IOU .
Only one card can be mounted in IOU 1Gbps.
No limitation in other case

Flash Back-up Unit
MC-0JFB21 MCX0JFB21 (LD) *2
- Flash Backup Unit for RAID Controller with cache memory
Mountable in PCIe slots of IOU .
Only two card can be mounted in IOU 1Gbps.
No limitation in other case

*1 Part below is included
FBU TRAY

*2 Parts below are included
LSI FBU02
FBU HoLDER
CBL FBU02 170

Dual Channel 6Gbps SAS Card
MC-0JSS21 MCX0JSS21 (LD) * LSI SAS9200-8e
Low Profile

Dual Channel 6Gbps SAS Card
MC-0JSS22 MCX0JSS22 (LD) * LSI SAS9200-8e
Full Height

Graphic card
MC-0JVG11 MCX0JVG11 (for eXetended Partitions only)
PY VGA 512 MB PCIe - NVIDIA PCI-e x1, Dual VGA / DVI, Low Profile

Graphic card
MC-0JVG21 MCX0JVG21 (for xPAR only)
PY VGA 512 MB PCIe - NVIDIA PCI-e x1, Dual VGA / DVI, Full Height

USB Expansion card
MC-0JUB11 MCX0JUB11 (LD)
Low Profile

USB Expansion card
xxxxxxx
Full Height

PCI Box Connection Card
MC-0JPC11 MCX0JPC11 (LD)
- This card can be used to add six PCIe slots in PCI Box. Low Profile
Max. two cards mountable to IOU 1Gbps.
Max. one cards mountable to IOU 10Gbps.
- This product includes also following parts.
 - PCI_Box connection cable
 -PCI Express cable(2M) x2
 -PCI Box control cable(2M) x1

These products will be
orderable if extended
Partitioning for
Windows OS is
released

Max. 56 cards can be mounted.
I/O Unit (1GbE) : Max. 4 cards per unit
I/O Unit (10GbE) : Max. 3 cards per unit
PCI Box : Max. 12 cards per unit

PCIe SSD Endurance

Order number	DWPD (Drive Writes Per Day)	Period of time
365GB	6	5 years
785GB	7,7	5 years
1.2TB	7,7	5 years

<p>PCIe SSD Card (365GB) MC-0JSD31 MCX0JSD31 (LD) Full High & comes with additional LP bracket This product is to be withdrawn on Dec. 25th, 2014.</p>
<p>PCIe SSD Card (785GB) MC-0JSD11 MCX0JSD11 (LD) Full High & comes with additional LP bracket This product is to be withdrawn on Dec. 25th, 2014.</p>
<p>PCIe SSD Card (1.2TB) MC-0JSD21 MCX0JSD21 (LD) Full High & comes with additional LP bracket This product is to be withdrawn on Dec. 25th, 2014.</p>
<p>PCIe SSD Card (800GB) MC-0JSD61 MCX0JSD61 (LD) PCIe-SSD Intel P3700 AIC (Low Profile, with FH bracket) This product is to be orderable from 2015 June 30th</p>
<p>PCIe SSD Card (1.6TB) MC-0JSD71 MCX0JSD71 (LD) PCIe-SSD Intel P3700 AIC (Low Profile, with FH bracket) This product is to be orderable from 2015 June 30th</p>
<p>PCIe SSD Card 2.0TB) MC-0JSD81 MCX0JSD81 (LD) This product is to be orderable from 2015 June 30th This product is to be orderable from 2015 June 30th</p>

IX. Rack Install

Outlet for APAC & South Americas

Following products are available for APAC

- MC-R1CBA1 : outlet (200V, IEC60320-C19,1U)
- MC-R1CBB1 : outlet for PCI BoX (200V-IEC-0U)
- MC-R1CBD1 : outlet for PCI BoX (200V-IEC-1U)

Following product is available for FBR.

- MC-R1CBC1 : outlet for FBR(200V, IEC60320-C19,0U)

**Please notice these products cannot be
selected in System Architect.**

For details of rack products, refer to "19inch Rack Handbook".
<https://global.support.fujitsu.com/onlinehelp/serve/servers/primequest/document/Pages/dc-h-guide.aspx>

Rack for APAC, NA & SA

Notices for Rack Mount Kit
- Rack Mount Kit is bundled to PRIMEQUEST Base Unit
- This Rack Mount Kit is usable to mount PRIMEQUEST to Rack Units delivered from Fujitsu Japan factory and ITS factory.

Rack Units

Model 2724 19R-272A2 24U, Base Unit	
Model 2737 19R-273A2 37U, Base Rack	Model 2737 19R-273A2 37U, Expansion Rack
Model 2742 19R-274A2 42U, Base Rack	Model 2742 19R-274B2 42U, Expansion Rack
Model 2616 19R-261A2 16U, Base Rack	
Model 2624 19R-262A2 42U, Base Rack	
Model 2642 19R-264A2 42U, Base Rack	Model 2642 19R-264B2 42U, Expansion Rack

Notices for Tilt Resistent Stabilizer
- This stabilizer must be stated in order sheet.

Tilt-Resistent 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 Basic Rack for model 2724/2737/2742
Earthquake Proof Kit 19R-27ST2 For Expansion Rack for model 2724/2737/2742
Earthquake Proof Kit 19R-26ST1 For Basic Rack for model 2616/2624/2642
Earthquake Proof Kit 19R-26ST2 For Expansion Rack for model 2616/2624/2642

Notices for Blank Panel
- This is used to prevent outflow of heated air
- Spaces to joint. Side Cable Duct should be covered by

Blank Panel

Blank Panel (1U) 19R-26BP1 For model 2724/2737/2742/2616/2624/2642
Blank Panel (2U) 19R-26BP2 For model 2724/2737/2742/2616/2624/2642
Blank Panel (3U) 19R-26BP3 For model 2724/2737/2742/2616/2624/2642

Rack Tray

Rack Tray (Fixed Type) 19R-26TR1 For model 2724/2737/2742/2616/2624/2642
Rack Tray (Slide Type) 19R-26TR2 For model 2724/2737/2742/2616/2624/2642
Laptop PC Tray 19R-26TR3 For model 2724/2737/2742/2616/2624/2642

Slide Cable Duct

Slide Cable Duct 19R-27SD1 For model 2724/2737/2742/2616/2624/2642
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Cable Holder

Cable Holder 19R-27CM1 For front side For model 2724/2737/2742 *1
Cable Holder 19R-27CM2 For rear side For model 2724/2737/2742 *1
Cable Holder 19R-26CM1 For front side For model 2616/2624 *2
Cable Holder 19R-26CM2 For rear side For model 2616/2624 *2
Cable Holder 19R-26CM11 For front side For model 2642 *3
Cable Holder 19R-26CM21 For rear side For model 2642 *3

Screw Unit

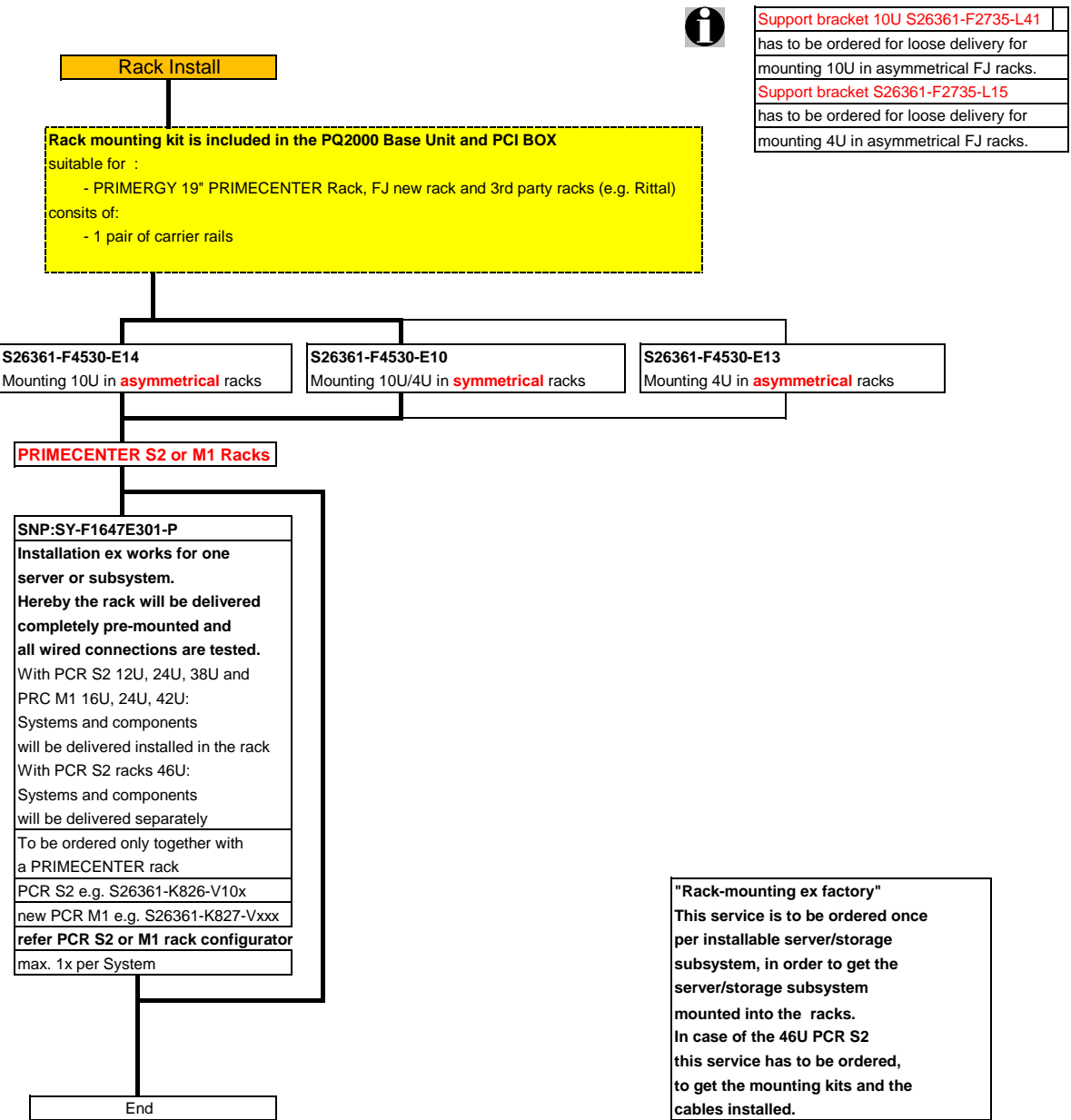
Screw Unit 19R-26SC1 50 pcs of M6 screw units and 50 pcs of M6 cage nuts
--

*1 Cable Holders are bundled to Rack Units.
Please include this product in order sheet
if quantity of this product bundled is insufficient.
- 10 pcs for model 2742, 8 pcs for model for 2737, 6 pcs for 2724.

*2 Cable Holders are bundled to Rack Units.
Please include this product in order sheet
if quantity of this product bundled is insufficient.
- 6 pcs for model 2624, 4 pcs for model for 2716.

*3 Cable Holders are bundled to Rack Units.
Please include this product in order sheet
if quantity of this product bundled is insufficient.
- 10 pcs for model 2642.

Rack Installation for CEMEA&I, UK & NORDIC



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

Precautions

Precautions	OS	Preventive measures
Uncorrectable errors of multiple RAID cards occur during installation of SVIM.	No limitation for OS	The number of LAN ports per server base unit should be max. 96. The number of LAN ports per Hardware Partitioning should less tha 96.
If booting of OS via SAN-Boot using multi-path cards fails because of error in the path, booting of OS does not complete even via alternative path.	No limitation for OS	No preventive measure
PCIe SSD cards OEMed from San Disk IO-Drive2 products are NOT USABLE in Extended Partitions	No limitation for OS	No preventive measure
Infiniband cards are NOT usable in Extended Partitions	No limitation for OS	No preventive measure
To change configurations of Extended Partitioning, ONLY one browser is allowed to be used at a time.	No limitation for OS	No preventive measure

Precautions

"System Power Save Control" is not usable in Extended Partitions.	No limitation for OS	No preventive measure
"Intel Virtualization Technology" is not usable In Extended Partitions.	No limitation for OS	No preventive measure
"Above 4G Decoding" is not uable in Extended Partitions.	No limitation for OS	No preventive measure
PRIMECLUSTER cannot switch Extended Partitions.	No limitation for OS	No preventive measure
If you installed OS via VGA card to an Extended Partition, the VGA allotted to the Extended Partition may not be released so OS boot may fail.	No limitation for OS	Workaround: Modify grub.conf as follows. - Comment out "splashimage=(hd0,1)/grub/splash.xpm.gz". - Add "console=ttyS0,19200n8" into kernel line.
To execute hot plug operations of FC cards while running OCM, restart of OS is required.	Windows Server	To close OCM monitor before PHP operations.
Multiple paths between IOU with 1Gbps LAN and IOU with 10Gbps LAN is NOT allowed.	Windows Server	No preventive measure
MMB and remote PC MUST BE connected by text console redirection.	Red Hat Enterprise Linux	Set "console=tty0" by kernel command line to use VGA or telnet.
"System Progress" status in MMB WebUI does not change into "OS Running"	ESXi 5.1u2(UEFI)	it is necessary to insert the following commands at the system console: ~ # vmkload_mod /usr/lib/vmware/vmkmod/ipmi_devintf ~ # vmkload_mod /usr/lib/vmware/vmkmod/ipmi_si_drv ports=0x0E02 ~ # esxcfg-module -s 'ports=0x0E02' ipmi_si_drv
vSphere client does not recognize FCoE cards as storage or network adapter.	ESXi 5.x	Install FCoE driver. SW-ID: 1111648
FCoE driver is not applied to ESXi 5.5u1custom image.	ESXi 5.5u1	Solution: Install ESXi 5.5u1 Offline Bundle. SW-ID: 1114019
FCoE SAN boot is not usable.		Custom images of ESXi 5.5u2 and ESXi 5.1u2 support FCoE SAN boot from the beginning.

Precautions

OS installation by SVIM may failed on the system which contains a PCIe SSD (Intel P3700).	No limitation for OS	Solution is planned in SVIM. Workaround: Install OS after removing P3700. Mount a P3700 again after completing OS installation.
The driver for PCIe SSD (Intel P3700 is not usable, when Windows2012/2012R2 is installed by SVIM.	Windows Server	Solution is planned in SVIM. Workaround: Install the driver manually after OS installation.
The driver for PCIe SSD (Intel P3700) is not usable, when SLES11 SP3 is installed by SVIM.	SLES11 SP3	Solution is planned in SVIM. Workaround: Install the driver manually after OS installation.

Product Name
SAS RAID controller card
SAS RAID controller card mount kit
Flash Back-up Unit
Dual channel 6Gbps SAS Card
Dual channel 6Gbps SAS RAID controller card
FBU Mount Kit for Ext. SAS RAID Card
FBU for Ext. SAS RAID Card
Single Channel 8Gbps Fibre Channel Card
Single Channel 8Gbps Fibre Channel Card
Dual Channel 8Gbps Fibre Channel Card
Dual Channel 8Gbps Fibre Channel Card
Single Channel 16Gbps Fibre Channel Card
Dual Channel 16Gbps Fibre Channel Card
Dual Channel 1000BASE-T Card
Quad Channel 1000BASE-T Card
Dual Channel 1000BASE-T Card
Quad Channel 1000BASE-T Card
Dual Channel 10G BASE-T Card
Dual Channel 10G BASE Card
Dual Channel FCoE card (10Gbps)
Dual Channel FCoE card (10Gbps)
Dual Channel 10Gbps LAN Card (SFP+)
Single channel 40Gbps Infiniband HCA card

Dual channel 40Gbps Infiniband HCA card
Single channel 56Gbps Infiniband HCA card
Dual channel 56Gbps Infiniband HCA card
Dual Channel 10Gbps LAN Card (SFP+)
PCIe SSD Card (365GB)
PCIe SSD Card (785GB)
PCIe SSD Card (1.2TB)
PCIe SSD Card (800GB)
PCIe SSD Card (1.2TB)
PCIe SSD Card (2.0TB)
PCI BoX connection card

*1 Max. 4 pcs of this card can be mounted to one unit of IOU (1Gbps)

Max. 2 pcs of this card can be mounted to one unit of IOU (10Gbps)

If four units of IOU (1Gbps) are mounted to one server, 16 pcs of 1Gbps cards can be mound there

Order Number	Limitation for max. Qty. of IOU
MC-0JSR31	Not moutable
MC-0HCK11	Not moutable
MCX0JFB11	Not moutable
MC-0JSS21	No limitation
MC-0JSR41	No limitation
MC-0HCK21	1 (IOUL only)
MC-0JFB21	2(IOUL only)
MC-0JFC31	No limitation
MC-0JFC91	No limitation
MC-0JFC41	No limitation
MC-0JFCA1	No limitation
MC-0JFC71	No limitation
MC-0JFC81	No limitation
MC-0JGE81	No limitation
MC-0JGE91	No limitation
MC-0JGEA1	Max. 4 per IOU (1Gbps) Max. 2 per IOU(10Gbps)
MC-0JGEB1	Max. 4 per IOU (1Gbps) Max. 2 per IOU(10Gbps)
MC-0JXE31	No limitation
MC-0JXE41	No limitation
MC-0JCE61	Max. 4 per IOU (1Gbps) Max. 3 per IOU(10Gbps)
MC-0JCE62	Max. 4 per IOU (1Gbps) Max. 3 per IOU(10Gbps)
MC-0JCE71	Max. 4 per IOU (1Gbps) Max. 3 per IOU(10Gbps)
MC-0JHC11	No limitation

MC-0JHC21	No limitation
MC-0JHC31	No limitation
MC-0JHC41	No limitation
MC-0JXE51	No limitation
MC-0JSD31	No limitation
MC-0JSD11	No limitation
MC-0JSD21	No limitation
MC-0JSD61	No limitation
MC-0JSD71	No limitation
MC-0JSD81	No limitation
MC-0JPC11	1(IOUF) 2(IOUL)

Limitation for max. Qty. of PCI Box
Not moutable
Not moutable
Not moutable
No limitation
No limitation
Not moutable
Not moutable
No limitation
No limitation
No limitation
No limitation
No limitation
No limitation
limitation for 1G LAN: No PCI-BOX support
limitation for 1G LAN: No PCI-BOX support
No limitation
No limitation
No limitation
No limitation
No limitation
Max. 8 per PCI Box
Max. 8 per PCI Box
Max. 12 per PCI Box
No limitation

[illegible]

Limitation for PRIME

[illegible]

[illegible]

:QUEST 2800E

[illegible]

[illegible]

Limitation for max. Qty. of Base unit and PCI BOXes	
	limitation for MegaRAID: Max. 7
	limitation for MegaRAID: Max. 7
	limitation for MegaRAID: Max. 7
8	
	limitation for MegaRAID: Max. 7
4	
	limitation for MegaRAID: Max. 7
24	
	limitation for 1G LAN: Max. 8
	<p style="text-align: center;">Internal slots: Max. 16 *1 PCI Box : Max. 48 slots for 4 PCI Box</p>
24	Limitation for 10G LAN and Infiniband: Total 16 for each physical partition
16	<p>Max. number of these cards per Physical Partition is 4 in Legacy mode. Max. number of these cards per Physical Partition is 16 in UEFI mode.</p>

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InfiniBand cards in Windows is usable in the following restricted environment.

- the number of CPU core ≤ 64
- IB card ≤ 2
- Memory amount of a partition $\leq 1\text{TB}$

(1) Limitation for 10G LAN and Infiniband: Total 16 for each physical partition

(2) Limitaton for Infiniband : max. 2 for each physical partition for Windows.

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Product name	Order number	Model	OS									
			PRIMEQUEST 2400E	PRIMEQUEST 2800E	PRIMEQUEST 2800B	Win2012 R2	Win2012 R2	Win2008 R2	RHEL	SLES	VMware vSphere 5	Oracle VM
PRIMEQUEST 2400E Base Cabinet	MC-F2AC111	PRIMEQUEST 2400E Base Cabinet	A	NA	NA	A	A	A	A	A	A	A
PRIMEQUEST 2800E Base Cabinet	MC-F3AC111	PRIMEQUEST 2800E Base Cabinet	NA	A	NA	A	A	A	A	A	A	A
PRIMEQUEST 2800B Base Cabinet	MC-F3AC111B	PRIMEQUEST 2800B Base Cabinet	NA	NA	A	A	A	A	A	A	A	A
System board	MC-2HSB51	System board	A	NA	NA	A	A	A	A	A	A	A
System board	MC-3HSB51	System board	NA	A	NA	A	A	A	A	A	A	A
System board	MC-3HSB51B	System board	NA	NA	A	A	A	A	A	A	A	A
SAS RAID controller card mount kit	MC-OHCK11	SAS RAID controller card mount kit	A	A	A	A	A	NA	A	A	A	A
CPU (Xeon E7-4890v2)	MC-2BCA11	CPU (Xeon E7-4890v2)	A	NA	NA	A	A	A	A	A	A	A
CPU (Xeon E7-8890v2)	MC-3BCA11	CPU (Xeon E7-8890v2)	NA	A	NA	A	A	A	A	A	A	A
CPU (Xeon E7-8890v2)	MC-3BCA11B		NA	NA	A	A	A	A	A	A	A	A
CPU (Xeon E7-8880v2)	MC-3BCE11	CPU (Xeon E7-8880v2)	NA	A	NA	A	A	A	A	A	A	A
CPU (Xeon E7-8880v2)	MC-3BCE11B		NA	NA	A	A	A	A	A	A	A	A
CPU (Xeon E7-4850v2)	MC-2BCB11	CPU (Xeon E7-4850v2)	A	NA	NA	A	A	A	A	A	A	A
CPU (Xeon E7-8850v2)	MC-3BCB11	CPU (Xeon E7-8850v2)	NA	A	NA	A	A	A	A	A	A	A
CPU (Xeon E7-8850v2)	MC-3BCB11B		NA	NA	A	A	A	A	A	A	A	A
CPU (Xeon E7-8893v2)	MC-2BCD11	CPU (Xeon E7-8893v2)	A	NA	NA	A	A	A	A	A	A	A
CPU (Xeon E7-8893v2)	MC-3BCD11	CPU (Xeon E7-8893v2)	NA	A	NA	A	A	A	A	A	A	A
CPU (Xeon E7-8893v2)	MC-3BCD11B		NA	NA	A	A	A	A	A	A	A	A
Memory Extension Board	MC-2HMB11	Memory Extension Board	A	NA	NA	A	A	A	A	A	A	A
Memory Extension Board	MC-3HMB11	Memory Extension Board	NA	A	NA	A	A	A	A	A	A	A
Memory Extension Board	MC-3HMB11B		NA	NA	A	A	A	A	A	A	A	A
16GB Memory (8GB DDR3 DIMM x2)	MC-2CB511	16GB Memory (8GB DDR3 DIMM x2)	A	NA	NA	A	A	A	A	A	A	A
16GB Memory (8GB DDR3 DIMM x2)	MC-3CB511	16GB Memory (8GB DDR3 DIMM x2)	NA	A	NA	A	A	A	A	A	A	A
16GB Memory (8GB DDR3 DIMM x2)	MC-3CB511B		NA	NA	A	A	A	A	A	A	A	A
32GB Memory (16GB DDR3 DIMM x2)	MC-2CB611	32GB Memory (16GB DDR3 DIMM x2)	A	NA	NA	A	A	A	A	A	A	A
32GB Memory (16GB DDR3 DIMM x2)	MC-3CB611	32GB Memory (16GB DDR3 DIMM x2)	NA	A	NA	A	A	A	A	A	A	A
32GB Memory (16GB DDR3 DIMM x2)	MC-3CB611B		NA	NA	A	A	A	A	A	A	A	A
64GB Memory (32GB DDR3 DIMM x2)	MC-2CC711	64GB Memory (32GB DDR3 DIMM x2)	A	NA	NA	A	A	A	A	A	A	A
64GB Memory (32GB DDR3 DIMM x2)	MC-3CC711	64GB Memory (32GB DDR3 DIMM x2)	NA	A	NA	A	A	A	A	A	A	A
64GB Memory (32GB DDR3 DIMM x2)	MC-3CC711B		NA	NA	A	A	A	A	A	A	A	A
128GB Memory (32GB DDR3 DIMM x2)	MC-2CC811	128GB Memory (32GB DDR3 DIMM x2)	A	NA	NA	A	A	A	A	A	A	A
128GB Memory (32GB DDR3 DIMM x2)	MC-3CC811	128GB Memory (32GB DDR3 DIMM x2)	NA	A	NA	A	A	A	A	A	A	A
128GB Memory (32GB DDR3 DIMM x2)	MC-3CC811B		NA	NA	A	A	A	A	A	A	A	A
Management Board	MC-5HMM21	Management Board	A	A	A	A	A	A	A	A	A	A
I/O Unit (1GbE)	MC-2HUX31	I/O Unit (1GbE)	A	NA	NA	A	A	A	A	A	A	A
I/O Unit (1GbE)	MC-3HUX31	I/O Unit (1GbE)	NA	A	NA	A	A	A	A	A	A	A
I/O Unit (1GbE)	MC-3HUX31B		NA	NA	A	A	A	A	A	A	A	A
I/O Unit (10GbE)	MC-2HUX41	I/O Unit (10GbE)	A	NA	NA	A	A	A	A	A	A	A
I/O Unit (10GbE)	MC-3HUX41	I/O Unit (10GbE)	NA	A	NA	A	A	A	A	A	A	A
I/O Unit (10GbE)	MC-3HUX41B		NA	NA	A	A	A	A	A	A	A	A
Disk Unit	MC-5HDX11	Disk Unit	A	A	A	A	A	NA	A	A	A	A
200GB SAS SSD	MC-5DK731	200GB SAS SSD	A	A	A	A	A	NA	A	A	A	A
400GB SAS SSD	MC-5DK841	400GB SAS SSD	A	A	A	A	A	NA	A	A	A	A
800GB SAS SSD	MC-5DK911	800GB SAS SSD	A	A	A	A	A	NA	A	A	A	A
1.6TB SAS SSD	MC-5DKA11	1.6TB SAS SSD	A	A	A	A	A	NA	A	A	A	A
300GB Hard Disk Drive (15,000rpm)	MC-5DS731	300GB Hard Disk Drive (15,000rpm)	A	A	A	A	A	NA	A	A	A	A
300GB Hard Disk Drive (10,000rpm)	MC-5DS741	300GB Hard Disk Drive (10,000rpm)	A	A	A	A	A	NA	A	A	A	A
600GB Hard Disk Drive (10,000rpm)	MC-5DS921	600GB Hard Disk Drive (10,000rpm)	A	A	A	A	A	NA	A	A	A	A

A : Available

NA : Not Available

900GB Hard Disk Drive (10,000rpm)	MC-5DSA21	900GB Hard Disk Drive (10,000rpm)	A	A	A	A	A	NA	A	A	A	A
1.2TB Hard Disk Drive (10,000rpm)	MC-5DSB11	1.2TB Hard Disk Drive (10,000rpm)	A	A	A	A	A	NA	A	A	A	A
200V High efficiency PSU	MC-5HPS41	200V High efficiency PSU	A	A	A	A	A	A	A	A	A	A
100V/200V normal PSU	MC-5HPS61	100V/200V normal PSU	A	A	A	A	A	A	A	A	A	A
FAN Unit	MC-5HFA41	FAN Unit	A	A	A	A	A	A	A	A	A	A
IEC AC(100V/200V) Cable (1m)	MC-OHCA81	IEC AC(100V/200V) Cable (1m)	A	A	A	—	—	—	—	—	—	A
IEC AC(100V/200V) Cable (3m)	MC-OHCA83	IEC AC(100V/200V) Cable (3m)			A							A
PCI BoX	MC-OHPB31	PCI BoX	A	A	A	A	A	A	A	A	A	A
PSU for PCI BoX	MC-OHPS41	PSU for PCI BoX	A	A	A	A	A	A	A	A	A	A
IEC AC(100V/200V) Cable (1m) for PCI BoX	MC-OHCAB1	IEC AC(100V/200V) Cable (1m) for PCI BoX	A	A	A	—	—	—	—	—	—	A
IEC AC(100V/200V) Cable (3m) for PCI BoX	MC-OHCAB3	IEC AC(100V/200V) Cable (3m) for PCI BoX	A	A	A							A
SAS RAID controller card	MC-OJSR31	SAS RAID controller card	A	A	A	A	A	NA	A	A	A	A
Flash Back-up Unit	MC-OJFB11	Flash Back-up Unit	A	A	A	A	A	NA	A	A	A	A
Single Channel 8Gbps Fibre Channel Card	MC-OJFC31	Single Channel 8Gbps Fibre Channel Card	A	A	A	A	A	A	A	A	A	A
Single Channel 8Gbps Fibre Channel Card	MC-OJFC91	Single Channel 8Gbps Fibre Channel Card	A	A	A	A	A	A	A	A	A	A
Dual Channel 8Gbps Fibre Channel Card	MC-OJFC41	Dual Channel 8Gbps Fibre Channel Card	A	A	A	A	A	A	A	A	A	A
Dual Channel 8Gbps Fibre Channel Card	MC-OJFCA1	Dual Channel 8Gbps Fibre Channel Card	A	A	A	A	A	A	A	A	A	A
Single Channel 16Gbps Fibre Channel Card	MC-OJFC71	Single Channel 16Gbps Fibre Channel Card	A	A	A	A	A	A	A	A	A	A
Dual Channel 16Gbps Fibre Channel Card	MC-OJFC81	Dual Channel 16Gbps Fibre Channel Card	A	A	A	A	A	A	A	A	A	A
Dual Channel 1000BASE-T Card	MC-OJGE81	Dual Channel 1000BASE-T Card	A	A	A	A	A	A	A	A	A	A
Quad Channel 1000BASE-T Card	MC-OJGE91	Quad Channel 1000BASE-T Card	A	A	A	A	A	A	A	A	A	A
Dual Channel 1000BASE-T Card	MC-OJGEA1	Dual Channel 1000BASE-T Card	A	A	A	A	A	A	A	A	A	A
Quad Channel 1000BASE-T Card	MC-OJGEB1	Quad Channel 1000BASE-T Card	A	A	A	A	A	A	A	A	A	A
Dual Channel 10G BASE-T Card	MC-OJXE31	Dual Channel 10G BASE-T Card	A	A	A	A	A	A	A	A	A	A
Dual Channel 10G BASE Card	MC-OJXE41	Dual Channel 10G BASE Card	A	A	A	A	A	A	A	A	A	A
Dual Channel 10Gbps LAN Card (SFP+)	MC-OJXE51	Dual Channel 10Gbps LAN Card (SFP+)	A	A	A	A	A	A	A	A	A	A
Dual Channel FCoE card (10Gbps)	MC-OJCE61		A	A	A	A	A	A	A*1	A	A	NA
Dual Channel FCoE card (10Gbps)	MC-OJCE62		A	A	A	A	A	A	A	A*1	A	NA
Dual Channel 10Gbps LAN Card (SFP+)	MC-OJCE71		A	A	A	A	A	A	A	A*1	A	NA
Single channel 40Gbps Infiniband HCA card	MC-OJHC11	Single channel 40Gbps Infiniband HCA card	A	A	A	NA	A	A	A*2	NA	NA	NA
Dual channel 40Gbps Infiniband HCA card	MC-OJHC21	Dual channel 40Gbps Infiniband HCA card	A	A	A	NA	A	A	A*2	NA	NA	NA
Single channel 56Gbps Infiniband HCA card	MC-OJHC31	Single channel 56Gbps Infiniband HCA card	A	A	A	NA	A	A	A*2	NA	NA	NA
Dual channel 56Gbps Infiniband HCA card	MC-OJHC41	Dual channel 56Gbps Infiniband HCA card	A	A	A	NA	A	A	A*2	NA	NA	NA
Dual channel 6Gbps SAS RAID controller card	MC-OJSR41	Dual channel 6Gbps SAS RAID controller card	A	A	A	A	A	NA	A	A	A	A
FBU Mount Kit for Ext. SAS RAID Card	MC-OHCK21	FBU Mount Kit for Ext. SAS RAID Card	A	A	A	A	A	NA	A	A	A	NA
FBU for Ext. SAS RAID Card	MC-OJFB21	FBU for Ext. SAS RAID Card	A	A	A	A	A	NA	A	A	A	NA
Dual channel 6Gbps SAS Card	MC-OJSS21	Dual channel 6Gbps SAS Card	A	A	A	A	A	A	A	A	A	A
PCIe SSD Card (365GB)	MC-OJSD31	PCIe SSD Card (365GB)	A	A	A	A	A	A	A	A	A	NA
PCIe SSD Card (785GB)	MC-OJSD11	PCIe SSD Card (785GB)	A	A	A	A	A	A	A	A	A	NA
PCIe SSD Card (1.2TB)	MC-OJSD21	PCIe SSD Card (1.2TB)	A	A	A	A	A	A	A	A	A	NA
PCIe SSD Card (800GB)	MC-OJSD61		A	A	A	A	A	A	A	A	NA	NA
PCIe SSD Card (1.2TB)	MC-OJSD71		A	A	A	A	A	A	A	A	NA	NA
PCIe SSD Card (2.0TB)	MC-OJSD81		A	A	A	A	A	A	A	A	NA	NA
PCI BoX connection card	MC-OJPC11	PCI BoX connection card	A	A	A	A	A	A	A	A	A	NA

*1-RHEL7 is not supported

*2 RHEL6.6 is not supported

(1) Max. number of partitions

- PRIMEQUEST 2800E can have max. 8 eXtended Partitions where two eXtended Partitions are created in one Physical Partitions(PPAR)
- PRIMEQUEST 2400E can have max. 4 eXtended Partitions where two eXtended Partitions are created in one PPAR
- PRIMEQUEST 2800B cannot have eXtended Partition nor PPAR.

(2) Optional products necessary to setup configuration for eXtended Partitions

- To setup eXtended Partitions, VGA card (MC-0JVG11) is necessary

(3) Granularity

Minimum Qty. of CPU, memory, disk drives, PCIe slots, and LAN ports are as follows.

Component		Granularity of	Granularity of eXtended Partitions
SB	CPU	SB	One core
	Memory		1GB of memory
	Disk bays		bays under the control of
	USB, VGA		Two USB ports Two ports for USB or VGA
IOU	PCIe slot	IOU	One PCIe slot
	Onboard LAN		Two ports for IOU 1Gbps Two or one port for IOU 10Gbps
DU	Disk Drive	Two disk bays	Disk bay under the control of one RAID controll card
PCI Box		Six PCIe slots	One out of 12 PCIe slot

(5) Display and Mouse setting

To install OS and applications UNDER eXtended Partition environment, it is required to mount VGA and USB cards per eXtended Partition .

- Graphic card [MC-0JVG11]
- USB Expansion card [MC-0JUB11]
- KVM switch and related products

Component	Function	RHEL 6.4~
SB	Hot Add	Available
	Hot remove	Not available
	Hot Replace	Not available
IOU	Hot Add	Available
	Hot remove	Available
	Hot Replace	Available
PCI Box	Hot Add	Available
	Hot remove	Available
	Hot Replace	Available

Disk drives in SB and DU make RAID levels below available
- RAID 0, 1, 5,6, 1E, 10,50, 60

Please confirm available RAID levels

Components	RAID cards	Qty. of HDD	RAID level
SB/DU	Cougar3	1	0
		2	0,1
		3	0,1,5,6
		4	all

Because VMware vSphere 5 does not make Segment Mode available, only VMware poses limitation for available number of SB, IOU, and PCI Box.

The largest configuration for one Hardware Partition must follow limitation below

- (1) If Number of SB is 4, max. number of IOU is 2 and PCI Box cannot be connected.
- (2) If number of SB is 3, number number of PCI Box is 3. But Max, number of IOU can be 4
- (3) If number of SB is 2, no specific limitation on number of IOU nor PCI Box.

Change Report

Date	Order number	Changes
12.02.2014		Sheet "System Board", SB with TPM is postponed
12.02.2014		Sheet "Memory Mode", Spare and Dynamic Partitioning are postponed
12.02.2014		Sheet "Internal SSD for SB", all of Seagate SSD are removed,
12.02.2014		Sheet "Internal SSD for SB", ME SSD for 200GB, 400GB, and 1.6TB are postponed
12.02.2014		Sheet "Internal SSD for DU", all of Seagate SSD are removed,
12.02.2014		Sheet "Internal SSD for DU", ME SSD for 200GB, 400GB, and 1.6TB are postponed
12.02.2014		Sheet "PCI Card" : Qlogic FC cards are postponed
12.02.2014		Sheet "PCI card2", FCoE cards are postponed
12.02.2014		Sheet "PCI card3", Graphic cards are postponed
12.02.2014		Sheet "PCI card4", PCIe SSD 2.4TB is postponed
21.02.2014		sheet "PCI Card4" : Endurance of PCIe SSD
10.03.2014		Sheet "Base Unit Power cord" : Relevant order numbers are integrated to System Architect.
10.03.2014		Sheet "PCI Box (2)" : Relevant order numbers are integrated to System Architect.
10.03.2014		Sheet "PCI Card1" : Max. Qty for LAN cards are added.
10.03.2014		Sheet "PCI Card3" : Max. Qty. for FBU and InfiniBand cards are added.
10.03.2014		Sheet "Release" : Functional limitation table is added.
10.03.2014		Sheet "Precautions" : table for precaution is added.
10.03.2014		Sheet "Max. Qty. of PCIe Card" : Table for max. Quantity for PCIe card is added.
10.04.2014		Sheet "System Board" : SB with TPM becomes orderable
10.04.2014		Sheet "Memory Mode", Spare and Dynamic Partitioning is renamed to Dynamic Reconfiguration and this is released.
10.04.2014		Sheet "Internal HDD for SB" : 1.2TB HDD becomes orderable
10.04.2014		Sheet "Internal SSD for SB" : 200GB, 400GB, 1.6TB SSD become orderable
10.04.2014		Sheet "Internal HDD for DU" : 1.2TB HDD becomes orderable
10.04.2014		Sheet "Internal SSD for DU" : 200GB, 400GB, 1.6TB SSD become orderable
14.05.2014		Sheet "System Board" : SB with and without TPM can be mixed.
14.05.2014		Sheet "PCI Card 3" : statement for max. Qty. of RAID card is removed
14.05.2014		Sheet "Rack Install(APAC NA SA)" : Detailed explanation for Fujitsu Japan rack
30.05.2014		Sheet "Memory Mode" : Deleted memory modes
30.05.2014		Sheet "OS Matrix" : This matrix is newly added
26.06.2014		Sheet "PCI Card1" : New LAN cards are added
26.06.2014		Sheet "PCI Card4" : Release of 2.4TB PCIe SSD is suspended.
26.06.2014		Sheet "Max. Qty. of PCIe Card" : New LAN card added. Max. two InfiniBand cards can be mounted per Physical Partition for Windows.
12.08.2014		Sheet "Precautions" : Precautions for Extended Partitions added
12.08.2014		Sheet "Release" : Notices for Extended Partitions added
12.08.2014		Sheet "Max. Qty. of PCIe CARD" Max. qty for FCoE and LAN card added
12.08.2014		Sheet "OS x Order Number matrix", line for FCoE added
07.11.2014		Sheet "PCI Cards", Orderable date for Qlogic FC cards is changed
07.11.2014		Sheet "PCI CARD2", FCoE cards added
07.11.2014		Sheet "PCI CARD4", PCIe SSD cards added
07.11.2014		Sheet "Max. Qty. of PCIe CARD", FCoE cards added
07.11.2014		Sheet "OS x Order number matrix", FCoE cards added
16.02.2015		Sheet "PCI Cards", added notes to Emulex FC cards.
16.02.2015		Sheet "PCI Cards2", note for FCoE cards is changed.
16.02.2015		Sheet "Max. Qty. of PCIe cards", changed explanation of FCoE cards and Infiniband cards
16.02.2015		Sheet "OS x Order number matrix" changed Infiniband cards
12.06.2015	Memory Mode	changed
12.06.2015		Sheet "OS x Order number matrix, PCIe SSD(800GB,1.6/2.0TB) is not available to VMware.
30.07.2015	FCoE cards	Limitations for FCoE cards are released
30.07.2015		Precautions are modified