FUJITSU

PRIMEQUEST 2400E

System configurator and order-information guide

May, 2016

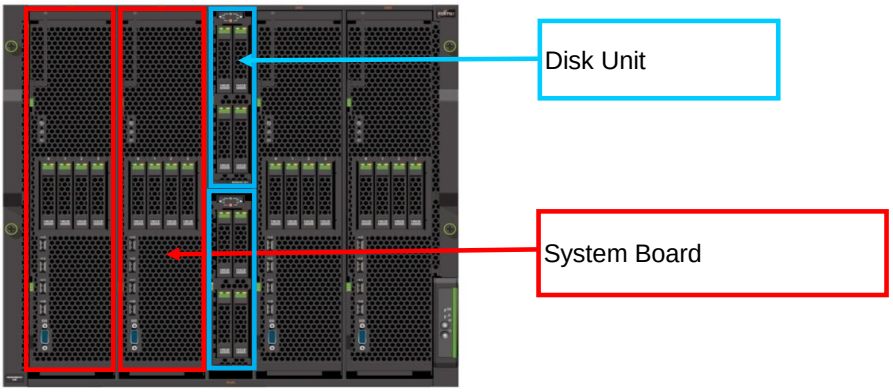
Contents

Configurator Overview

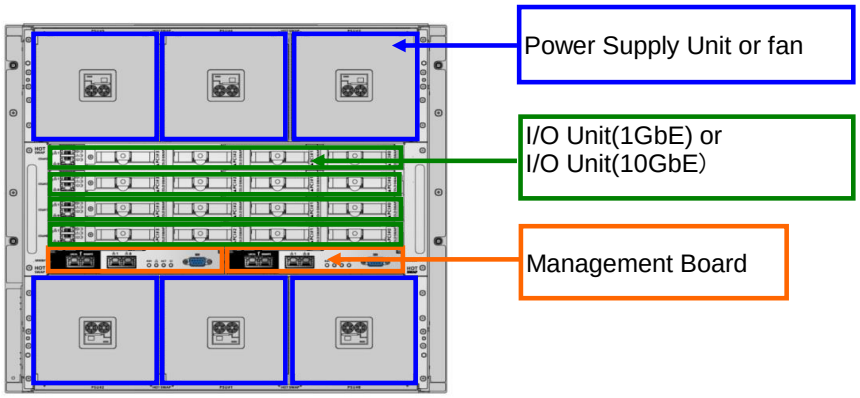
0 Overview, Overview_1
I Base unit
II Systemboard, CPU, MEM, Raid Controller, HDD and SSD for SB
III Management Board (MMB)
IV IO unit
V Disk unit, HDD & SSD for DU
VI Base Unit PSU, Base Unit Powercords
VII PCI Box, PCI BOX 1, PCI BOX Powercords
VIII PCI CARDS, PCI CARDS_1, PCI CARDS_2, PCI CARDS_3, PCI CARDS_4
IX Rack Install
X EP, DP, HW_Raid, Limitations for Vmware
Change Report

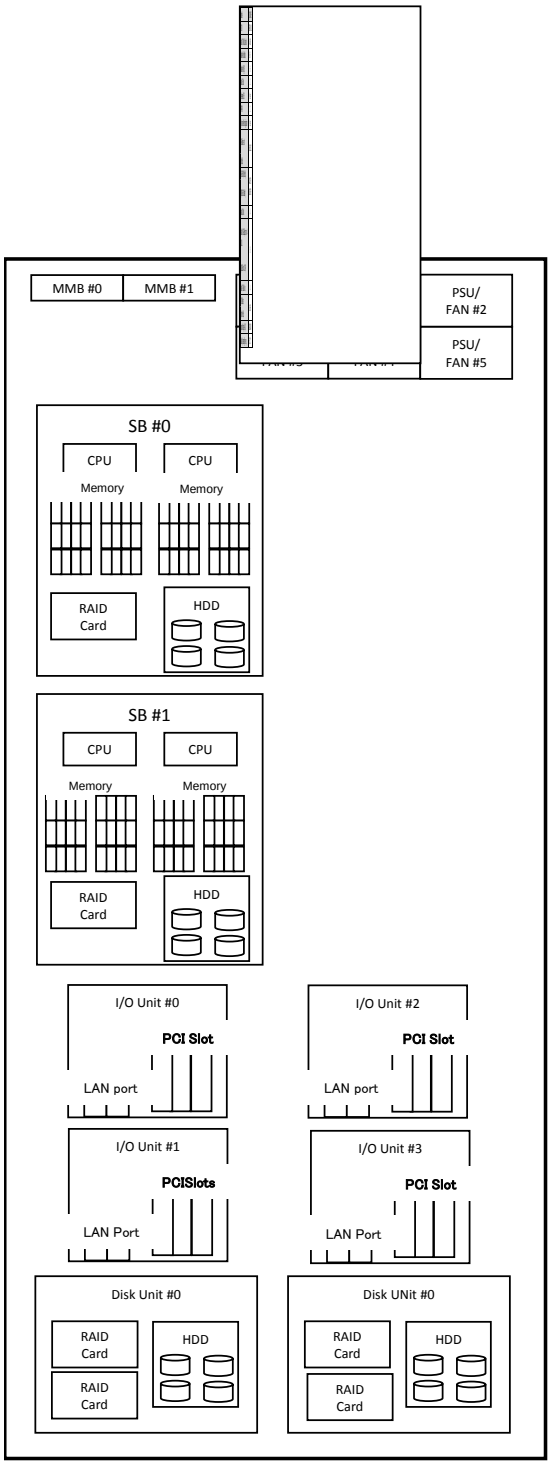
PRIMEQUEST SERVER

Front side



Rear side





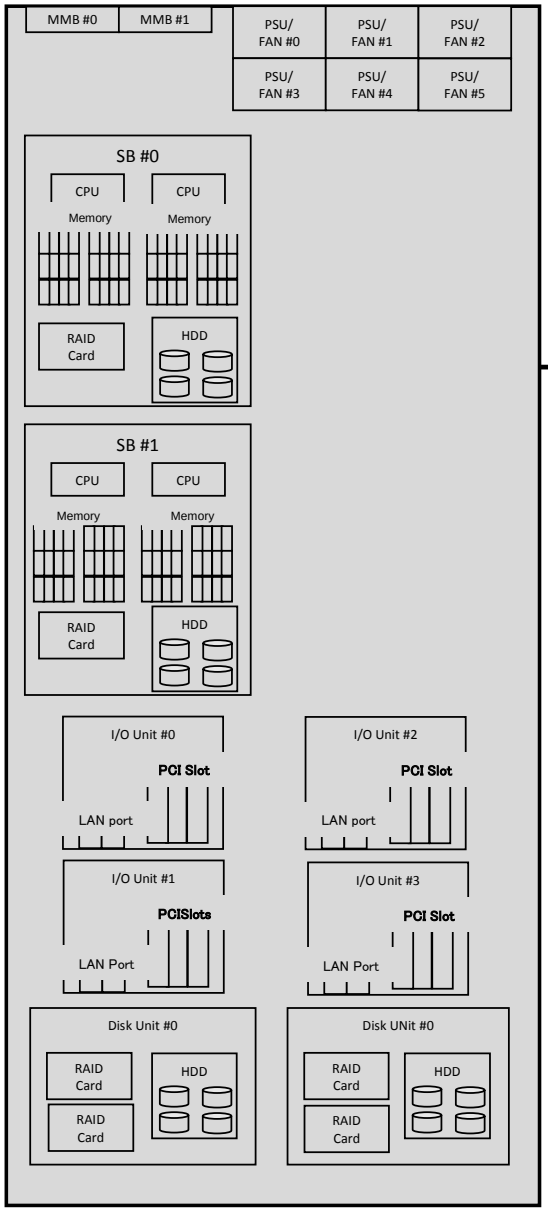
Part Numbers Legend:

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

MCX****** as products shipped separately from base units (**L**oose **D**elivery)
(FTS: LL component)

PQ2400E 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 , one Rack Mount Kit, one MMB Dummy

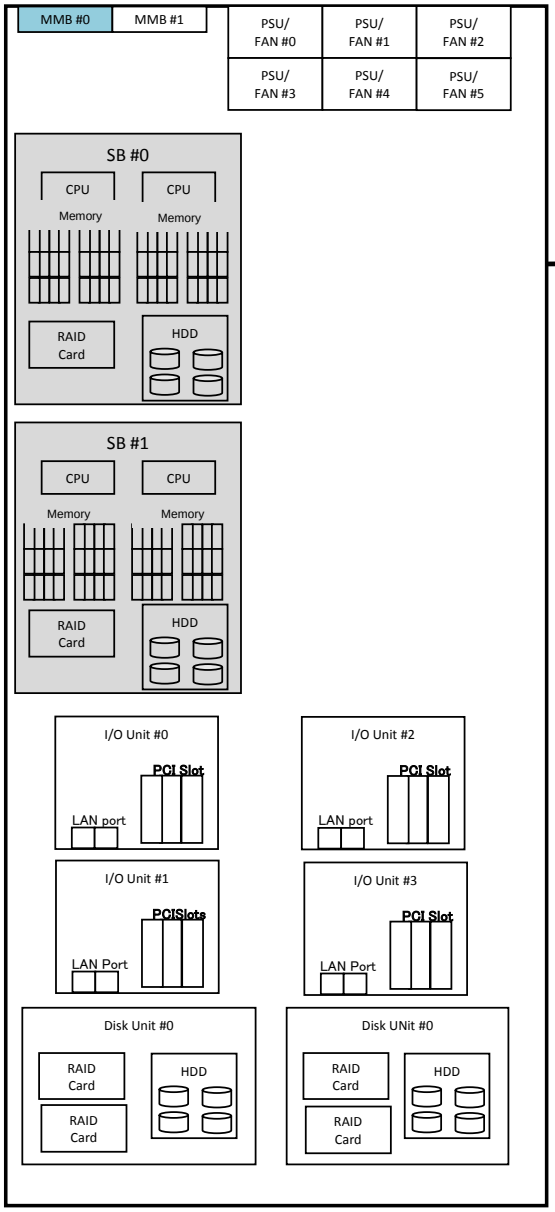
PRIMEQUEST 2400E Base Unit

MCF2AC111

- Rack mount type
- Min. one System Board must be ordered. Max. two 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



Max. 2 pcs per base unit
SB with TPM and SB without SB can be mixed in base unit

At least one product must be chosen

System Board

MC-2HSB51 MCX2HSB51 (LD)

- This system board does not include security chip called TPM
- Min one System Board must be ordered. Max. two 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-2HSBX1 MCX2HSBX1 (LD)

- This system board includes security chip called TPM
- This product is not orderable from China
- Min one System Board must be ordered. Max. two 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

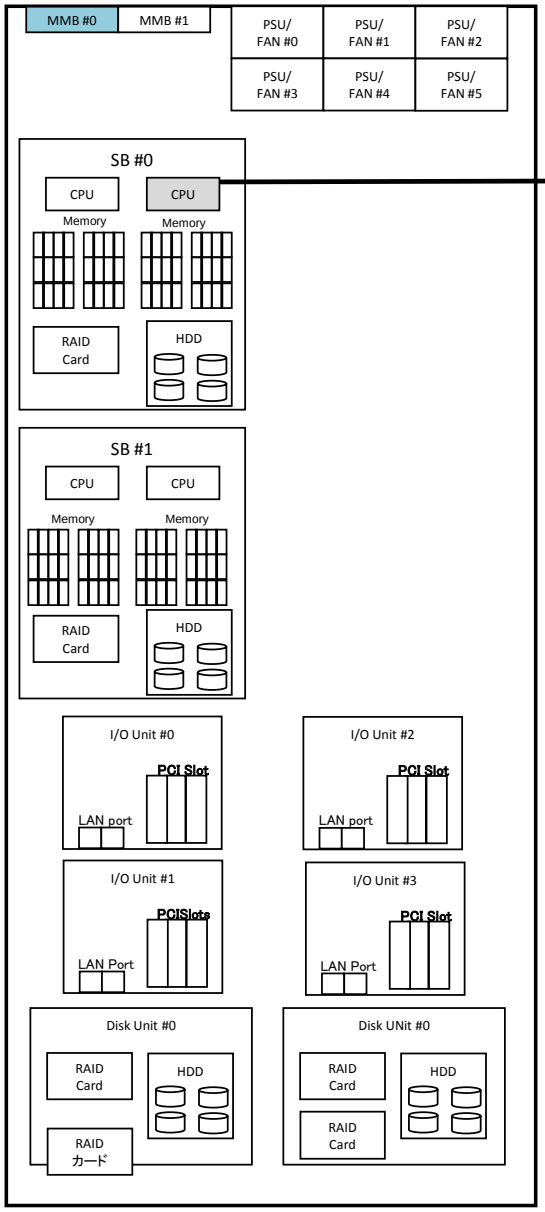
Available combination of CPU and memory → **CPU**

		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-2HSBX1).
- 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 m



One product must be chosen

CPU(Xeon E7-8893v2)
CPU Module(3.4GHz/6 core/37.5MB cache)
MC-2BCD11 MCX2BCD11 (LD)
- Max. two CPU per System Board. Min one CPU per System Board

CPU(Xeon E7-4890v2)
CPU Module(2.80GHz/15 core/37.5MB cache)
MC-2BCA11 MCX2BCA11 (LD)
- Max. two CPU per System Board. Min one CPU per System Board

CPU(Xeon E7-4880v2)
CPU Module(2.50GHz/15 core/37.5MB cache)
MC-2BCE11 MCX2BCE11 (LD)
- Max. two CPU per System Board. Min one CPU per System Board

CPU(Xeon E7-4870v2)
CPU Module(2.30GHz/15 core/30.0MB cache)
MC-2BCF11 MCX2BCF11 (LD)
- Max. two CPU per System Board. Min one CPU per System Board

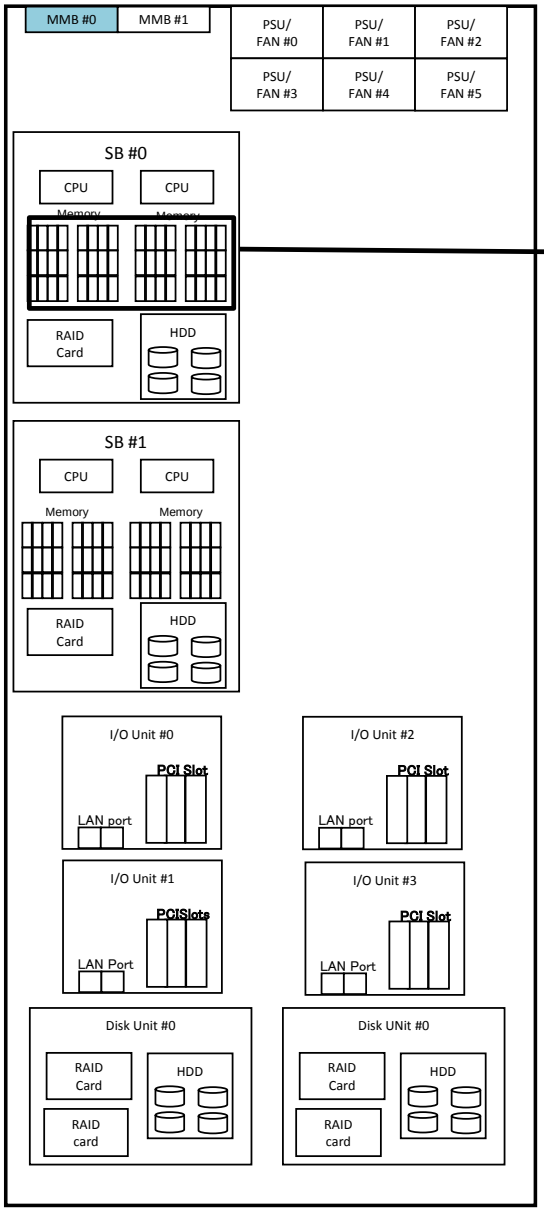
CPU(Xeon E7-4850v2)
CPU Module(2.3GHz/12 core/24.0MB cache)
MC-2BCB11 MCX2BCB11 (LD)
- Max. two CPU per System Board. Min one CPU per System Board

CPU moounting 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

Memory



For details, please refer to "Memory Mounting Conditon"

Options

Memory Expansion Board

MC-2HMB11 MCX2HMB11 (LD)
- One Memory Expansion Board can be mounted for one CPU
- One Memory Expansion Board has 12 DIMM slots.

* Conditions to order Memory Expansion Boad are influenced by the number of memory DIMM mounted and memory mode
For details, please refer to "Memory Mounting Condition".

At least one product must be selected.

16GB memory (8GB DDR3 DIMM x 2)

MC-2CB511 MCX2CB511 (LD)
- Min. one Memory (2 x DIMMs) must be mounted for one CPU. Max. 12 memories (24 DIMMs) can be mounted for one CPU.
- Two 8GB-DDR3-1600-RDIMM included in this product

32GB memory (16GB DDR3 DIMM x 2)

MC-2CB611 MCX2CB611 (LD)
- Min. one Memory (2 x DIMMs) must be mounted for one CPU. Max. 12 memories (24 DIMMs) can be mounted for one CPU.
- Two 16GB-DDR3-1600-RDIMM included in this product

64GB memory (32GB DDR3 DIMM x 2)

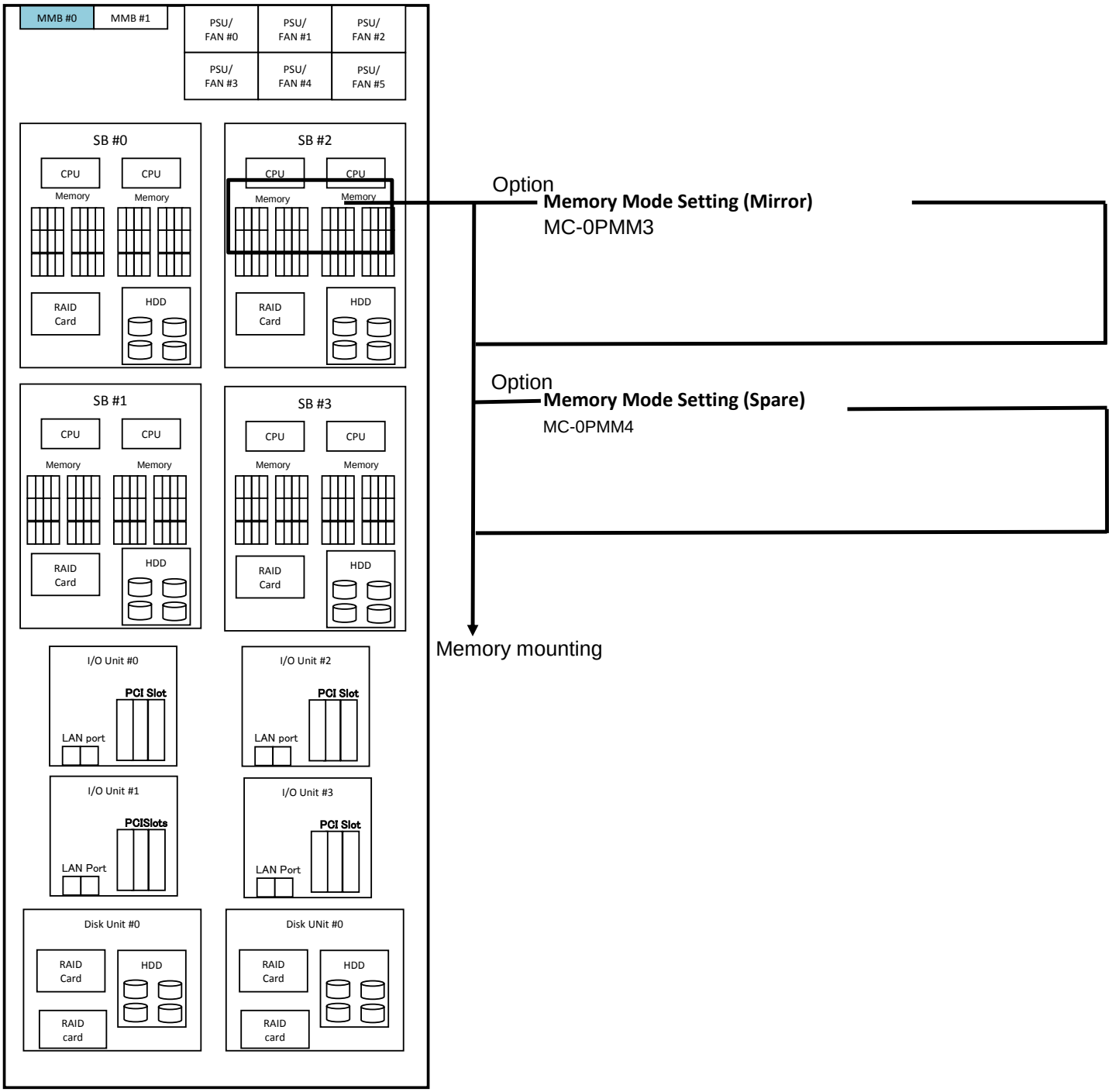
MC-2CC711 MCX2CC711 (LD)
- Min. one Memory (2 x DIMMs) must be mounted for one CPU. Max. 12 memories (24 DIMMs) can be mounted for one CPU.
- Two 32GB-DDR3-1600-RDIMM included in this product

128GB memory (64GB DDR3 DIMM x 2)

MC-2CC811 MCX2CC811 (LD)
- Min. one Memory (2 x DIMMs) must be mounted for one CPU. Max. 12 memories (24 DIMMs) can be mounted for one CPU.
- Two 64GB-DDR3-1333-RDIMM included in this product

Memory Mounting

Memory Mode


MMB #0
MMB #1
PSU/ FAN #0
PSU/ FAN #1
PSU/ FAN #2
PSU/ FAN #3
PSU/ FAN #4
PSU/ FAN #5
SB #0
SB #2
SB #1
SB #3
CPU
Memory
RAID Card
HDD
I/O Unit #0
I/O Unit #2
I/O Unit #1
I/O Unit #3
PCI Slot
PCISlots
LAN port
LAN Port
Disk Unit #0
Disk UNit #0
RAID card
Option
Memory Mode Setting (Mirror)
MC-0PMM3
Option
Memory Mode Setting (Spare)
MC-0PMM4
Memory mounting
Memory Mounting

1. Memory and Memory Expansion Board

(1) Memory reffered in this page has two DIMMs.

(2) Each CPU has 12 memory DIMM slots on System Board and another 12 memory DIMM slots ion Memory Expansion Board.

If Memory Expansopn Board os ordered.

(3) Please confirm the condition that order of Memory Expansion Board is necessary.

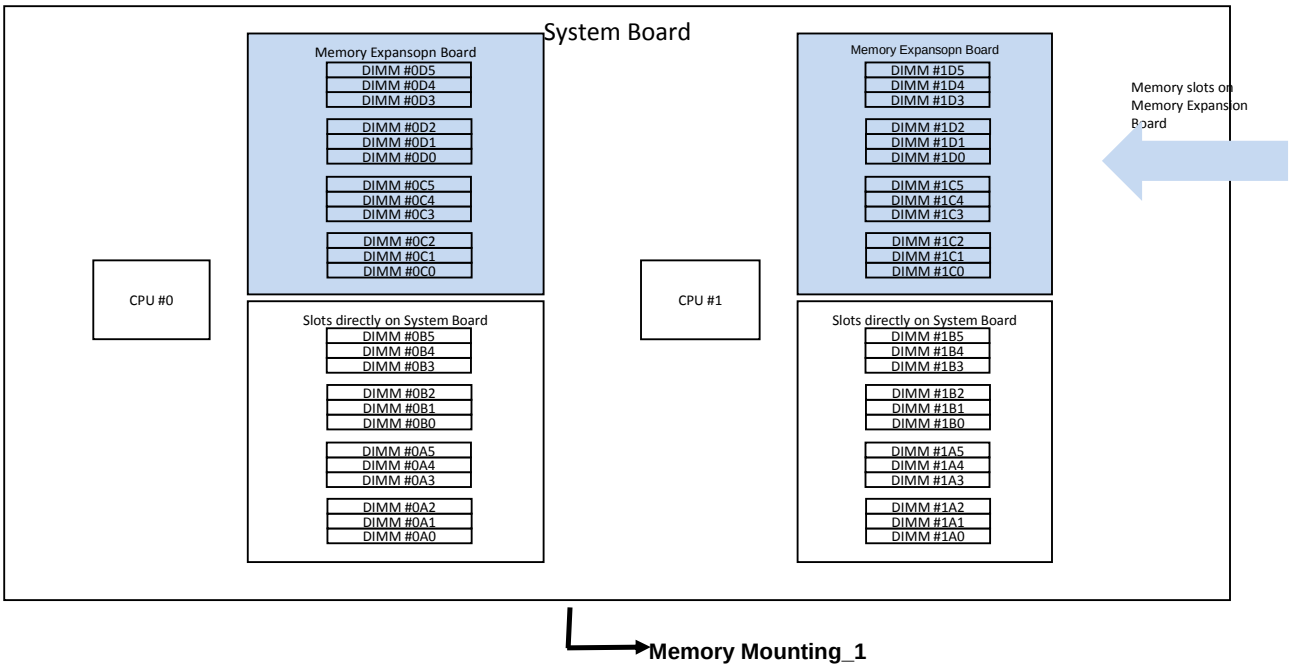
Combination of Memory Mode, number of Memory, and Memory Expansion Board

Memory Mode	# of Memory (# of DIMM)	Necessity for Memory Expansion Board
Nomal 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)One partition cannot have a mixed Memory Products. Only alloawable conbimation is 8GB RDIMM and 16GB RDIMM.

(2) 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



Memory Mounting_1

	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	Case2	Case2	Not applicable	Not applicable
Dynamic Partitioning (Enable) (MC-0PDP2) is NOT ordered	Case2	Case1	Case1	Case1

For Case 1 installations see page Memory Mounting _2

For Case 2 installations see Page Memory Mounting _3

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	1	1	5	5	3	3	7	7	2	2	6	6	4	4	8	8
(MC-0PMM1)	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	1	1	1	1	3	3	3	3	2	2	2	2	4	4	4	4
(MC-0PMM3)	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	1	1	5	5	3	3	7	7	2	2	6	6	4	4	8	8
(MC-0PMM3)	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

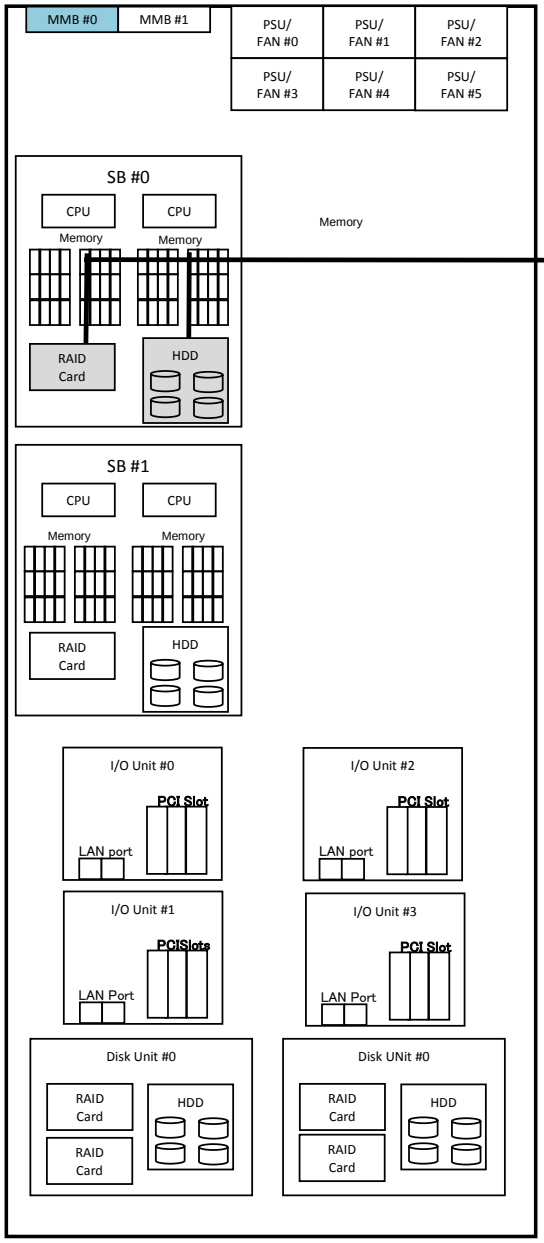
[Note]
- At least two DIMMs have to be installed in one CPU.
- When only CPU#0 is installed in the SB, the number of installation order is skipped in CPU#1.

To be updated

Memory Mounting_3

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	1	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2
(MC-0PMM1)	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
(MC-0PMM3)	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	1	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2
(MC-0PMM3)	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



mandatory

RAID Controll Card Mount Kit

MC-0HCK11 MCX0HCK11 (LD)
- This product is necessary to RAID Controller to System Board
- Following parts are included in this product

CBL-SAS
SLoT BRACKET LP
Screw x 2

SAS RAID Controll Card

MC-0JSR31 MCX0JSR31 (LD)
- One RAID Controller can be mounted for one System Board.
- One RAID Controller can connect max. four disk drives such as HDD and SSD
- 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

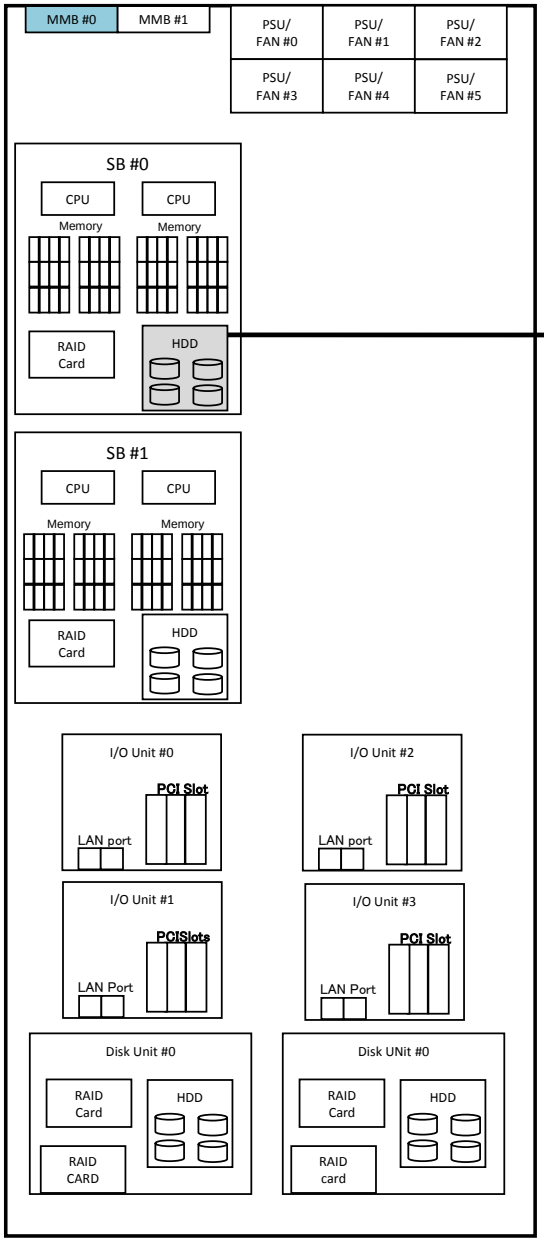
Option

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
LSI FBU02
FBU HoLDER
CBL FBU02 170

Internal HDD for SB



RAID Controller is neccesary to mount internal HDD or SSD.

300GB Internal HDD (15,000rpm)
- 6Gbps, hot plug
MC-5DS731 MCX5DS731 (LD)

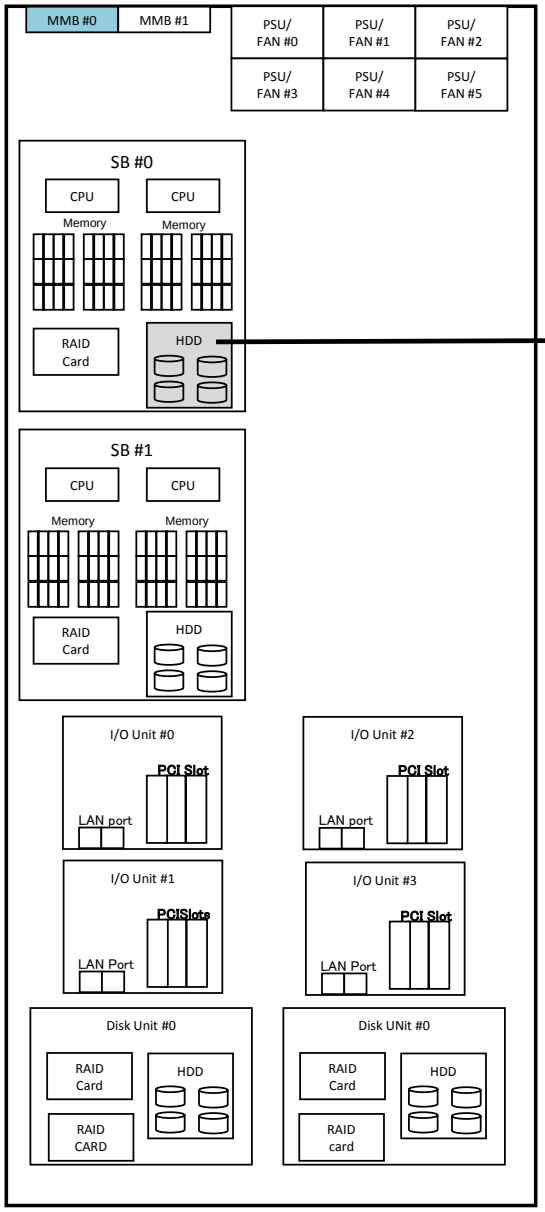
300GB Internal HDD (10,000rpm)
- 6Gbps, hot plug
MC-5DS741 MCX5DS741 (LD)

600GB Hard Disk Drive (10,000rpm)
- 6Gbps, hot plug
MC-5DS921 MCX5DS921 (LD)

900GB Hard Disk Drive (10,000rpm)
- 6Gbps, hot plug
MC-5DSA21 MCX5DSA21 (LD)

1.2TB Internal HDD (10,000rpm)
- 6Gbps, hot plug
MC-5DSB11 MCX5DSB11 (LD)

Internal SSD for SB



RAID Controller is neccesary to mount internal HDD or SSD.

Option

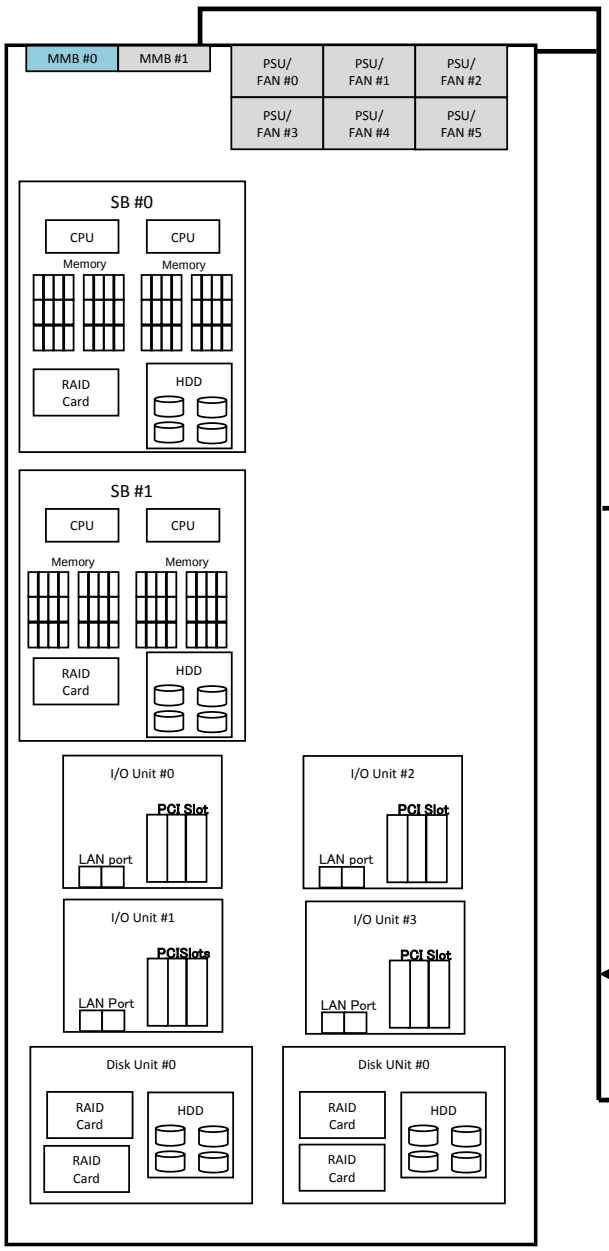
200GB SAS SSD
ME
MC-5DK731 MCX5DK731 (LD)
- 6Gbps, MLC, hot plug

400GB SAS SSD
ME
MC-5DK841 MCX5DK841 (LD)
- 6Gbps, MLC, hot plug

800GB SAS SSD * This product is orderable
ME
MC-5DK911 MCX5DK911 (LD)
- 6Gbps, MLC, hot plug

1.6TB SAS SSD
MC-5DKA11 MCX5DKA11 (LD)
- 6Gbps, MLC, hot plug

III. MMB



Option

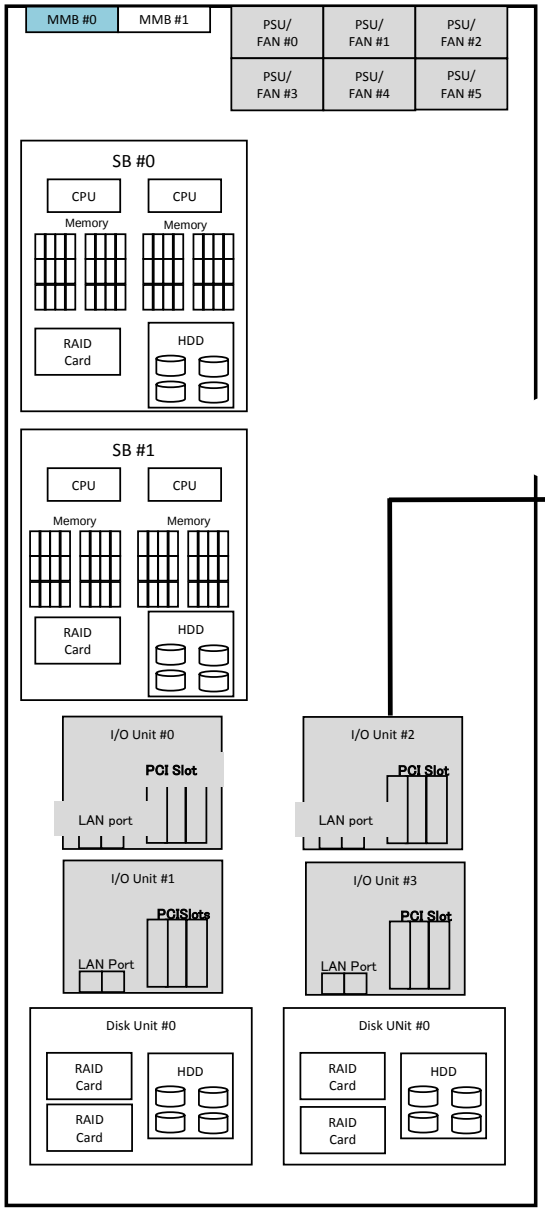
Management Board

MC-5HMM21 MCX5HMM21 (LD)

- Max. two MMB can be mounted.
One MMB is mounted as standard.
Another one MMB can be mounted as an option.
- MMB can be redundant with two MMB configuration.
- Each MMB has four LAN ports for server administration and maintenance.
(dual user ports, one REMCS port, one maintenance port)

IV. IO Unit

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-2HUX31 MCX2HUX31 (LD)

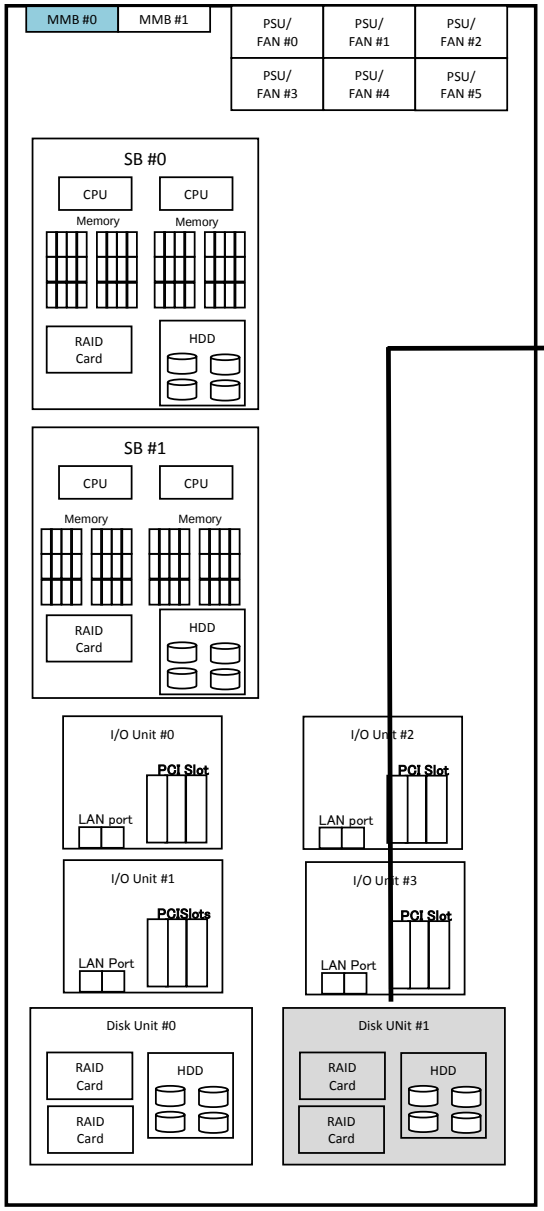
- Min one, Max. four I/O units can be mounted.
- Two LAN ports for 1GbE are in one I/O unit.
- Four PCIe slots (LP) per I/O Unit
- One PCI Box can be connected to PQ by mounting PCI Box Connection card. by mounting one card, six slots in PCI Box becomes available.
- PCIe slots in I/O unit cannot be hot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

I/O Unit(10GbE)

MC-2HUX41 MCX2HUX41 (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, 2FH) 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



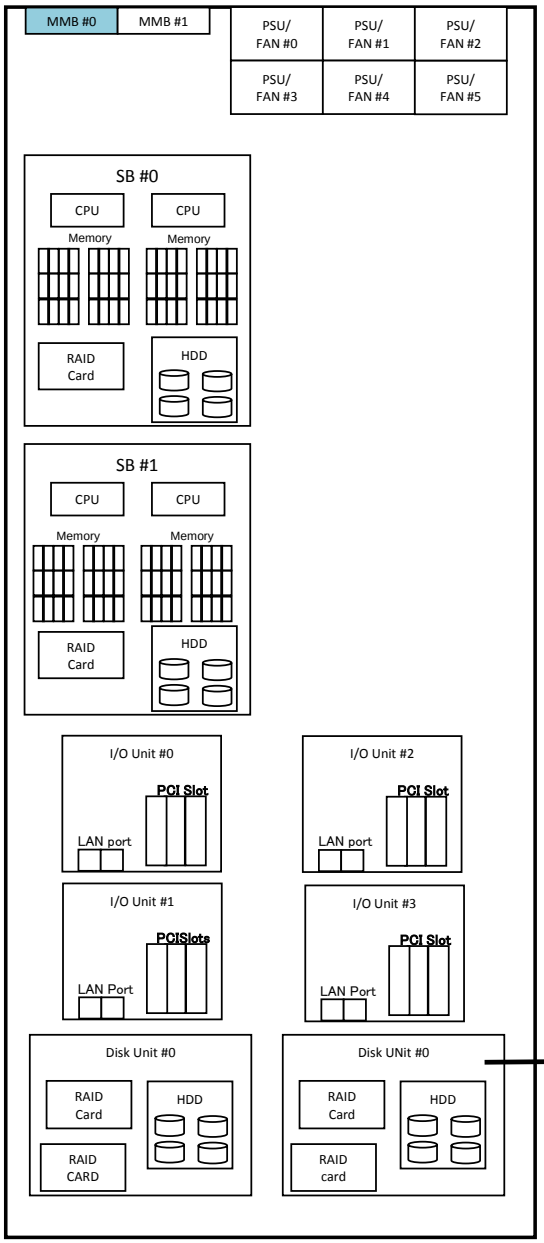
Option

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.

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

Flash Back-up Unit
MC-0JFB11 MCX0JFB11 (LD)

Internal HDD for DU



RAID Controller is neccesary to mount internal HDD or SSD.

300GB Internal HDD (15,000rpm)
- 6Gbps, hot plug
MC-5DS731 MCX5DS731 (LD)

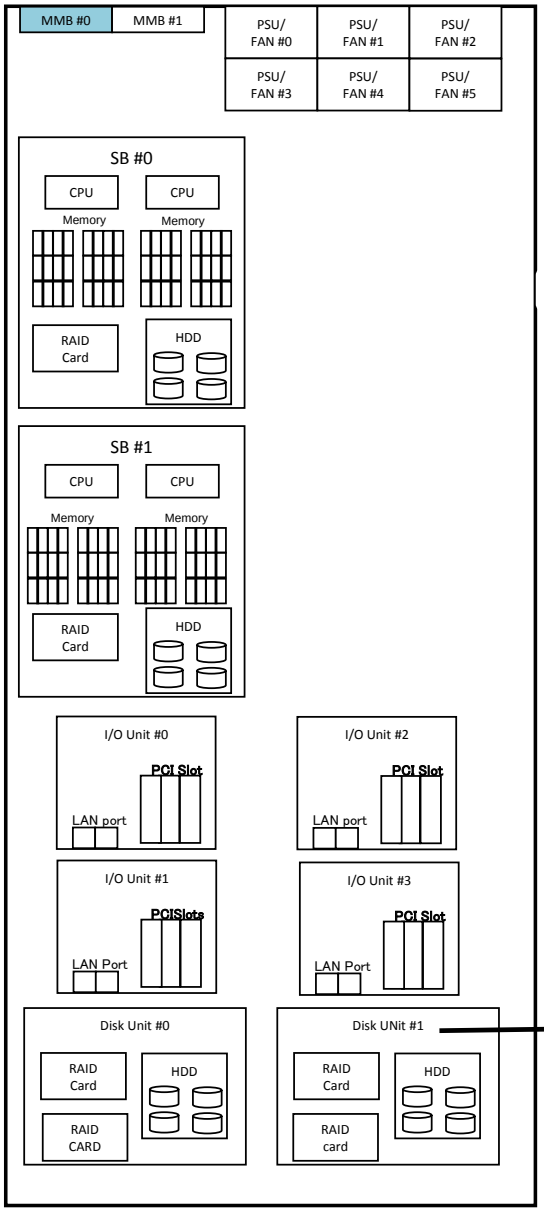
300GB Internal HDD (10,000rpm)
- 6Gbps, hot plug
MC-5DS741 MCX5DS741 (LD)

600GB Hard Disk Drive (10,000rpm)
- 6Gbps, hot plug
MC-5DS921 MCX5DS921 (LD)

900GB Hard Disk Drive (10,000rpm)
- 6Gbps, hot plug
MC-5DSA21 MCX5DSA21 (LD)

1.2TB Internal HDD (10,000rpm)
- 6Gbps, hot plug
MC-5DSB11 MCX5DSB11 (LD)

Internal SSD for DU



RAID Controller is neccesary to mount internal HDD or SSD.

Option

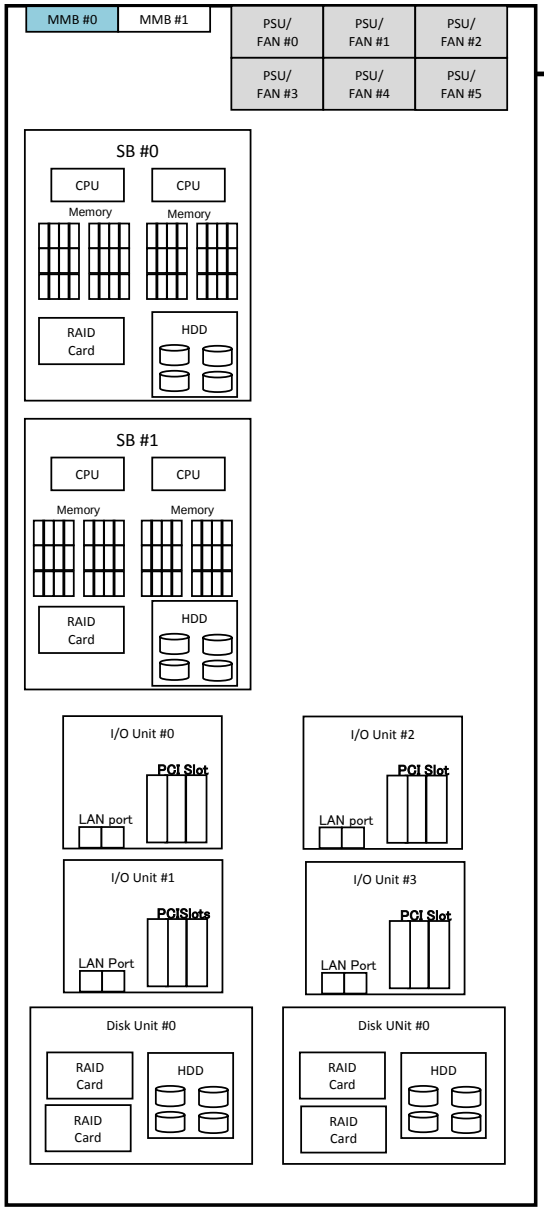
200GB SAS SSD
ME
MC-5DK731 MCX5DK731 (LD)
- 6Gbps, MLC, hot plug

400GB SAS SSD
ME
MC-5DK841 MCX5DK841 (LD)
- 6Gbps, MLC, hot plug

800GB SAS SSD * This product is orderab;e
ME
MC-5DK911 MCX5DK911 (LD)
- 6Gbps, MLC, hot plug

1.6TB SAS SSD
- 6Gbps, MLC, hot plug
MC-5DKA11 MCX5DKA11 (LD)
- 6Gbps, MLC, hot plug

VI. Base Unit PSU



200V High Efficiency PSU

MC-5HPS41 MCX5HPS41 (LD)
- Min 3 - Max. 6 units per chassis
- 80PLUS® Platinum certified

200V Normal PSU

MC-5HPS61 MCX5HPS61 (LD)
- Min 3 - Max. 6 units per chassis

Please place the order so that total number of units including PSU and fan is six.
To cool server efficiently, fan must be mounted for PSU slots if they are unoccupied,

Option

fan unit

MC-5HFA41 MCX5HFA41 (LD)
- fan unit x 1

Base Unit Powercords

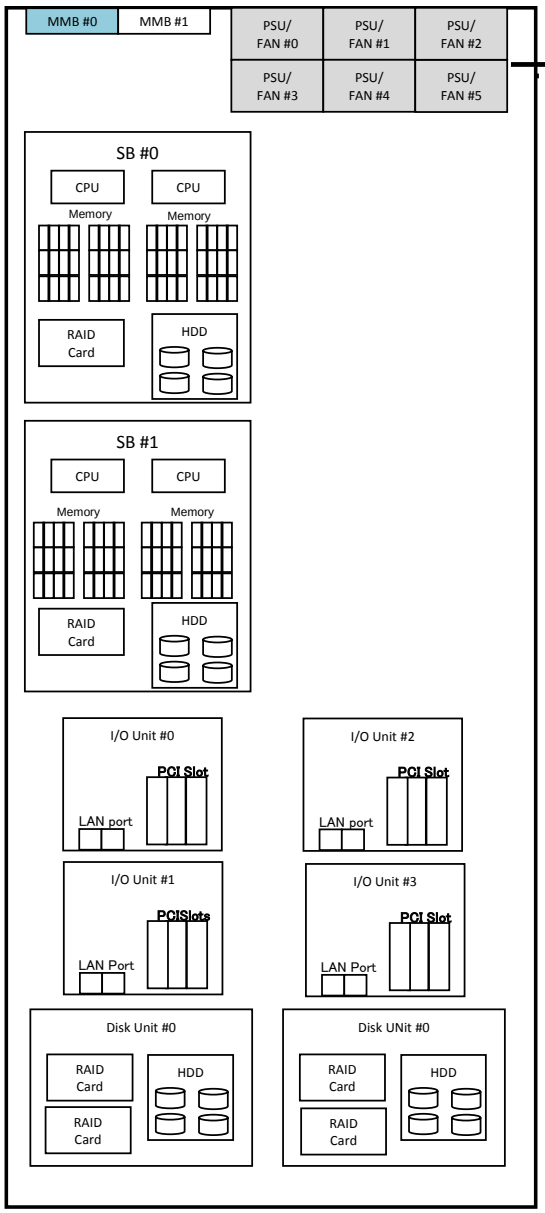
AC Power input	Power feed	Redundancy	# of PSU	PSU Slots
240V	Single	Not redundant	2	0,3
		redundant	2+1	0,1,3
	Dual	-	2X2	0,1,3,4

number of PSU and fan		
PSU	fan	power cord
2	4	2
3	3	3
4	2	4

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

AC Power input	Power feed	Redundancy	# of PSU	PSU Slots
100V	Single	Not redundant	3	0,1,3
		redundant	3+1	0,1,3,4

number of PSU and fan		
PSU	fan	power cord
3	3	3
2	4	4



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)
xxxxx
[MC-0HCA83]
- IEC60320 C20, 3m
- power cord x 1

200V IEC power cord (1m)
xxxxx
[MC-0HCA81]
- IEC60320 C20, 1m
- power cord x 1

9. PCI Box

Notice for Base Unit Power Cords for CEMEA&I, UK&Nordic

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

S26361-F3151-E301
Power Cord 16A IEC 320 C19 -> C20
default (to use within rack)
1x per PSU

T26139-Y3850-E10 1)
No Power Cord
1x per PSU

1) not to use within rack !

no mix of powercords possible

S26361-F3151-E100 1)	S26361-F3151-E200 1)	S26361-F3151-E500 1)	S26361-F3151-E10
Power Cord 16 A IEC320 C19-> CEE7/7 Schuko	Power Cord 16A IEC 320 c19-> 16A CEE Blue	Power Cord IEC320 C19 -> US NEMA L6-20p	Power Cord 16A IEC 320 C19 -> C20
			short (1m) cable
1x per PSU	1x per PSU	1x per PSU	1x per PSU

End

▶VII. PCI Box

*

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 slot s 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!

PCI Box

Option

PCI Box

MC-0HPB31 MCX0HPB31 (LD) *1
- Max. 4 PCI Box connectable to PRIMEQUEST,
but notice max. number depands 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 redundance can be mounted
- Two PCI Box Connection Cards attached to one PCI Box
- fans are mounted as standard with redundant configuration
- 4 RU
- PCI cards are hot plugable

*1 Following parts are included in this product
two PCI Box Connection cards
CSP PCI-BOX
IO-PSU-DUMMY
RACK MOUNT KIT

PSU for PCI Box
MC-0HPS41 MCX0HPS41 (LD)
1 x PSU or 2 x PSU for redundancy

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

PCI Box Connection Card *2
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

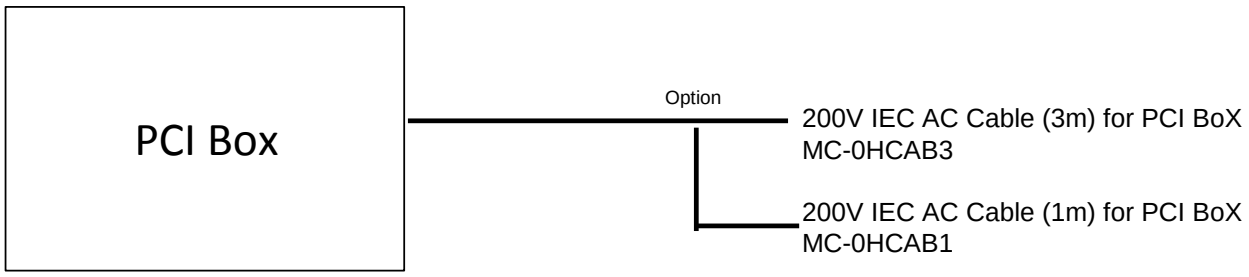
AC power input	Power feed	Redundancy	Number of units
200V / 100V	Single	Available	1
		Not available	1+1
	Dual	-	1×2

Orderable qty	
PSU	power cord
1	1
2	2
2	2

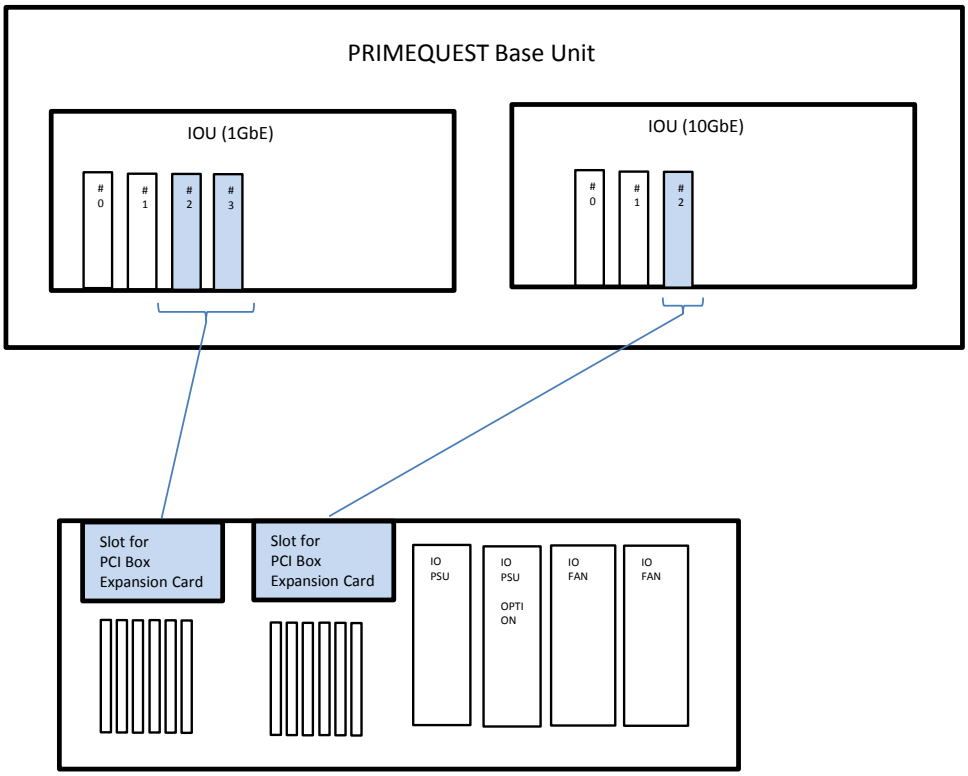
Max. number of PCI Box for PQ2400E with 200VAC connectable is determined below
If PQ2400E uses AC100V, max. number of PCI Box is ONE.

		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

*

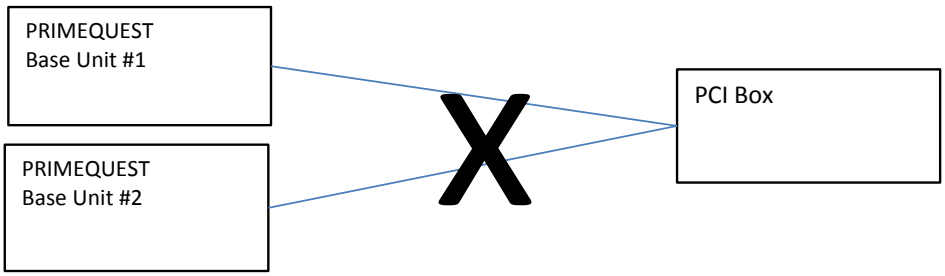

PCI Box
Option
200V IEC AC Cable (3m) for PCI BoX
MC-0HCAB3
200V IEC AC Cable (1m) for PCI BoX
MC-0HCAB1

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



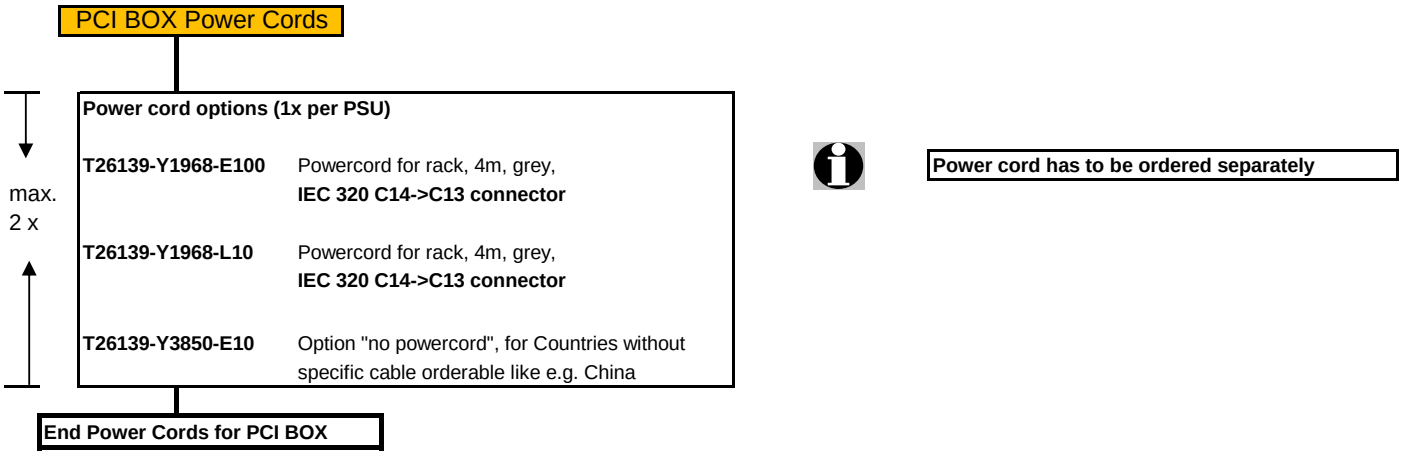
NOTICE

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

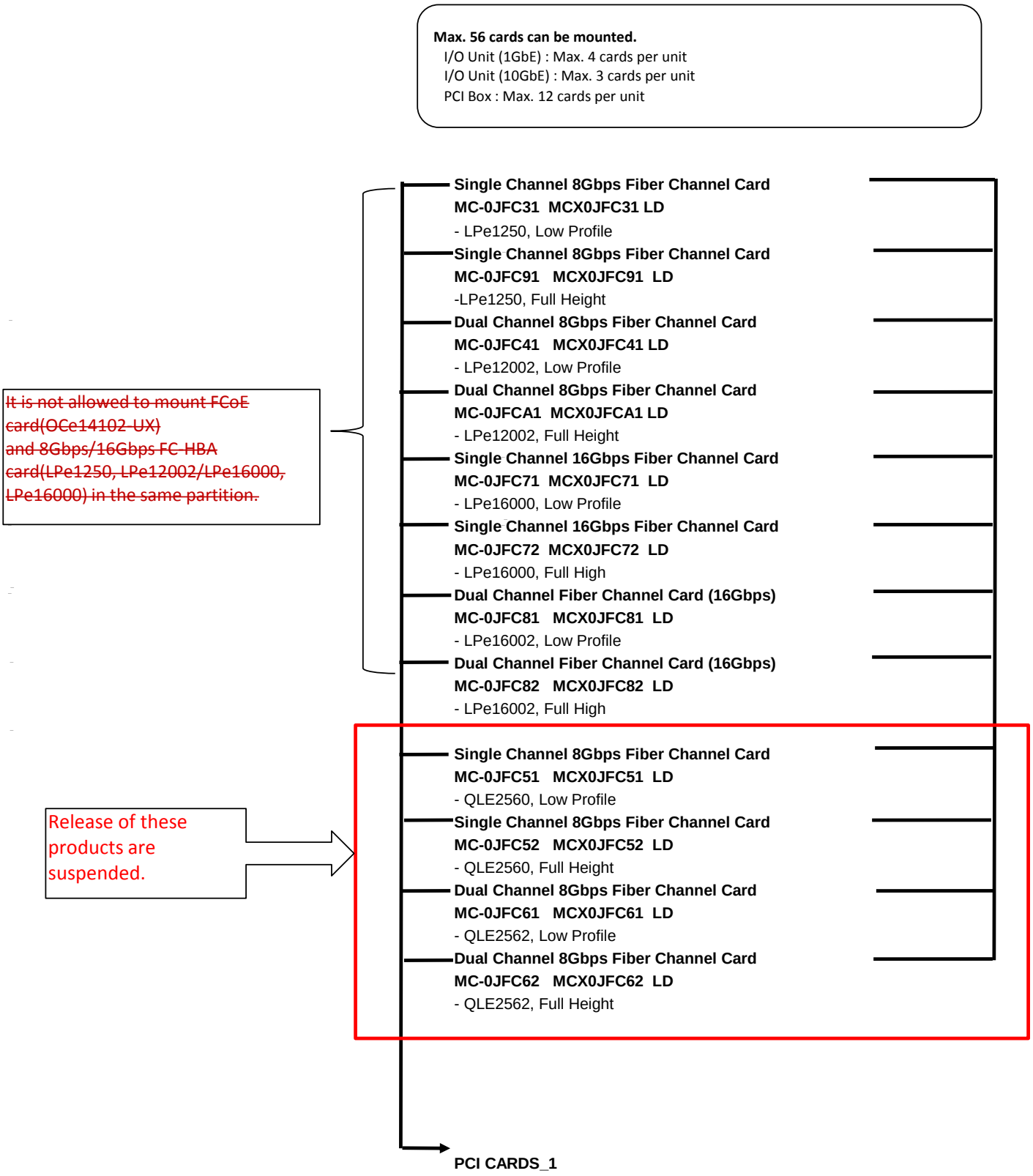


PCI BOX Powercords

Notice for 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
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
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-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 MCX0JGEA1 (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® 82599 10 Gigabit Ethernet Controller Full High
10GBASE-CR(TWINAX) cable must be ordered
The max quantity is two

Dual Channel 10Gbps LAN Card (SFP+)
MC-0JXE51 MCX0JXE51 (LD)

■10GBASE-CR(TWINAX) cable
Please use the 10GBASE-CR(TWINAX) cables
bundled with relevant network switchs.

PCI CARDS_2

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 switchs.~~

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)
- This product is necessary to mount up to 2 FBU in a IOUL
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)
- 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

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

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

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

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

USB Expansion card USB PCIe Adapter Card – PCI-e 2.0 x1, USB 3.0 x1 (for eXetended Partitions only)
MC-0JUB11 MCX0JUB11 (LD)
Full High

USB Expansion card USB PCIe Adapter Card – PCI-e 2.0 x1, USB 3.0 x1 (for eXetended Partitions only)
xxxxxxx
Low Profile

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

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 ot time
365GB	6	5 years
785GB	7,7	5 years
.12TB	7,7	5 years

~~**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.**~~

~~**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.**~~

~~**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.**~~

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.

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.

PCIe SSD Card 2.0TB)
MC-0JSD81 MCX0JSD81 (LD)
PCIe-SSD Intel P3700 AIC (Low Profile, with FH bracket)
This product is to be orderable from 2015 June 30th.

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.

Rack productst for APAC, North Americas, and South Americas

For details of rack products, refer to "19Inch Rack Handbook".
https://globalpartners.ts.fujitsu.com/sites/primeweb/services/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 FTS 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 Reistent 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

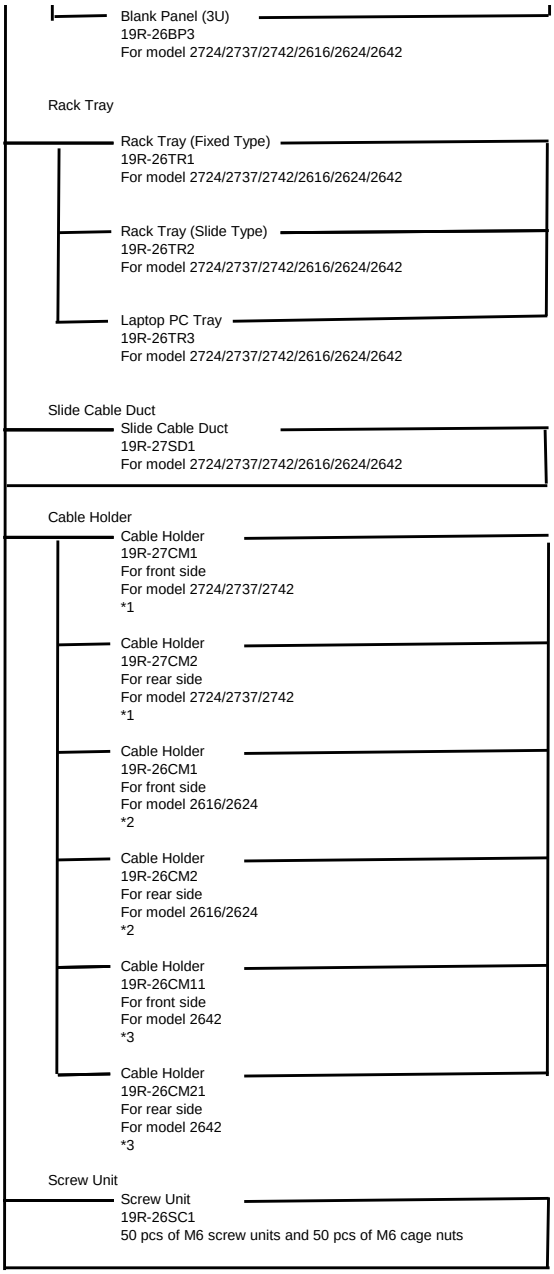
Earthquake Proof Kit

- 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



*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

Support bracket 10U S26361-F2735-L41
has to be ordered for loose delivery for
mounting 10U in asymmetrical FJ racks.
Support bracket S26361-F2735-L15
has to be ordered for loose delivery for
mounting 4U in asymmetrical FJ racks.

Rack Install

Rack mounting kit is included in the PQ2000 Base Unit and PCI BOX
suitable for :
- PRIMERGY 19" PRIMECENTER Rack, FJ new rack and 3rd party racks (e.g. Rittal)

consits of:
- 1 pair of carrier rails

S26361-F4530-E14	**S26361-F4530-E10**	**S26361-F4530-E13**
Mounting 10U in **asymmetrical** racks	Mounting 10U/4U in **symmetrical** racks	Mounting 4U in **asymmetrical** racks

PRIMECENTER S2 or M1 Racks

SNP:SY-F1647E301-P
Installation ex works for one server or subsystem. Hereby the rack will be delivered completely pre-mounted and all wired connections are tested. With PCR S2 12U, 24U, 38U and PRC M1 16U, 24U, 42U: Systems and components will be delivered installed in the rack With PCR S2 racks 46U: Systems and components will be delivered separately
To be ordered only together with a PRIMECENTER rack
PCR S2 e.g. S26361-K826-V10x
new PCR M1 e.g. S26361-K827-Vxxx
refer PCR S2 or M1 rack configurator
max. 1x per System

End

"Rack-mounting ex factory"
This service is to be ordered once per installable server/storage subsystem, in order to get the server/storage subsystem mounted into the racks.
In case of the 46U PCR S2 this service has to be ordered, to get the mounting kits and the cables installed.

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

Precautions	OS
Uncorrectable errors of multiple RAID cards occur during installation of SVIM.	No limitation for OS
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
PCIe SSD cards OEMed from San Disk IO Drive2 products are NOT USABLE in Extended Partitions	No limitation for OS
Infiniband cards are NOT usable in Extended Partitions	No limitation for OS
To change configurations of Extended Partitioning, ONLY one browser is allowed to be used at a time.	No limitation for OS
"System Power Save Control" is not usable in Extended Partitions.	No limitation for OS
"Intel Virtualization Technology" is not usable In Extended Partitions.	No limitation for OS
"Above 4G Decoding" is not uable in Extended Partitions.	No limitation for OS
PRIMECLUSTER cannot switch Extended Partitions.	No limitation for OS
If you installed OS via VGA card to an Extended Partition, the VGA alloted to the Extended Partition may not be released so OS boot may fail.	No limitation for OS
To execute hot plug operations of FC cards while running OCM, restart of OS is required.	Windows Server
Multiple paths between IOU with 1Gbps LAN and IOU with 10Gbps LAN is NOT allowed.	Windows Server
MMB and remote PC MUST BE connected by text console redirection.	Red Hat Enterprise Linux
"System Progress" status in MMB WebUI does not change into "OS Running"	ESXi 5.1u2(UEFI)
vSphere client does not recognize FCoE cards as storage or network adapter.	ESXi 5.x

Preventive measures
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.
No preventive measure
No preventive measure
No preventive measure
No preventive measure
No preventive measure
No preventive measure
No preventive measure
No preventive measure
Workaround: Modify grub.conf as follows. - Comment out "splashimage=(hd0,1)/grub/splash.xpm.gz". - Add "console=ttyS0,19200n8" into kernel line.
To close OCM monitor before PHP operations.
No preventive measure
Set "console=tty0" by kernel command line to use VGA or telnet.
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
Install FCoE driver. SW-ID: 1111648

Product Name	Order Number
SAS RAID controller card	MC-0JSR31
SAS RAID controller card mount kit	MC-0HCK11
Flash Back-up Unit	MCX0JFB11
Dual channel 6Gbps SAS Card	MC-0JSS21
Dual channel 6Gbps SAS RAID controller card	MC-0JSR41
FBU Mount Kit for Ext. SAS RAID Card	MC-0HCK21
FBU for Ext. SAS RAID Card	MC-0JFB21
Single Channel 8Gbps Fibre Channel Card	MC-0JFC31
Single Channel 8Gbps Fibre Channel Card	MC-0JFC91
Dual Channel 8Gbps Fibre Channel Card	MC-0JFC41
Dual Channel 8Gbps Fibre Channel Card	MC-0JFCA1
Single Channel 16Gbps Fibre Channel Card	MC-0JFC71
Dual Channel 16Gbps Fibre Channel Card	MC-0JFC81
Dual Channel 1000BASE-T Card	MC-0JGE81
Quad Channel 1000BASE-T Card	MC-0JGE91
Dual Channel 1000BASE-T Card	MC-0JGEA1
Quad Channel 1000BASE-T Card	MC-0JGEB1
Dual Channel 10G BASE-T Card	MC-0JXE31
Dual Channel 10G BASE Card	MC-0JXE41
Dual Channel FCoE card (10Gbps)	MC-0JCE61
Dual Channel FCoE card (10Gbps)	MC-0JCE62
Dual Channel 10Gbps LAN Card (SFP+)	MC-0JCE71
Single channel 40Gbps Infiniband HCA card	MC-0JHC11
Dual channel 40Gbps Infiniband HCA card	MC-0JHC21

Single channel 56Gbps Infiniband HCA card	MC-0JHC31
Dual channel 56Gbps Infiniband HCA card	MC-0JHC41
Dual Channel 10Gbps LAN Card (SFP+)	MC-0JXE51
PCIe SSD Card (365GB)	MC-0JSD31
PCIe SSD Card (785GB)	MC-0JSD11
PCIe SSD Card (1.2TB)	MC-0JSD21
PCIe SSD Card (800GB)	MC-0JSD61
PCIe SSD Card (1.2TB)	MC-0JSD71
PCIe SSD Card (2.0TB)	MC-0JSD81
PCI BoX connection card	MC-0JPC11

*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 c

Limitation

Limiitation for max. Qty. of IOU	Limitation for max. Qty. of PCI Box	Limitation for max. Qty. of Sytem Board
Not moutable	Not moutable	No limitation
Not moutable	Not moutable	No limitation
Not moutable	Not moutable	No limitation
No limitation	No limitation	Not moutable
No limitation	No limitation	Not moutable
1 (IOUL only)	Not moutable	Not moutable
2(IOUL only)	Not moutable	Not moutable
No limitation	No limitation	Not moutable
No limitation	No limitation	Not moutable
No limitation	No limitation	Not moutable
No limitation	No limitation	Not moutable
No limitation	No limitation	Not moutable
No limitation	No limitation	Not moutable
No limitation	limitation for 1G LAN: No PCI-BOX support	Not moutable
No limitation	limitation for 1G LAN: No PCI-BOX support	Not moutable
(1Gbps) Max. 2 per IOU(10Gbps)	No limitation	Not moutable
Max. 4 per IOU (1Gbps) Max. 2 per IOU(10Gbps)	No limitation	Not moutable
No limitation	No limitation	Not moutable
No limitation	No limitation	Not moutable
Max. 4 per IOU (1Gbps) Max. 3 per IOU(10Gbps)	Max. 8 per PCI Box	Not moutable
Max. 4 per IOU (1Gbps) Max. 3 per IOU(10Gbps)	Max. 8 per PCI Box	Not moutable
Max. 4 per IOU (1Gbps) Max. 3 per IOU(10Gbps)	Max. 12 per PCI Box	Not moutable
No limitation	No limitation	Not moutable
No limitation	No limitation	Not moutable

No limitation	No limitation	Not moutable
No limitation	No limitation	Not moutable
No limitation	No limitation	Not moutable
No limitation	No limitation	Not moutable
No limitation	No limitation	Not moutable
No limitation	No limitation	Not moutable
No limitation	No limitation	Not moutable
No limitation	No limitation	Not moutable
No limitation	No limitation	Not moutable
1(IOUF) 2(IOUL)	Not moutable	Not moutable

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ı for PRIMEQUEST 2400E

Limitation for max. Qty. of Disk Unit	Limitation for max. Qty. of Base unit and PCI BOXes
No limitation	limitation for MegaRAID: Max. 7
Not moutable	limitation for MegaRAID: Max. 7
No limitation	limitation for MegaRAID: Max. 7
Not moutable	8
Not moutable	limitation for MegaRAID: Max. 7
Not moutable	4
Not moutable	limitation for MegaRAID: Max. 7
Not moutable	24
Not moutable	
Not moutable	
Not moutable	
Not moutable	
Not moutable	
Not moutable	limitation for 1G LAN: Max. 8
Not moutable	
Not moutable	Internal slots: Max. 16 PCI Box : Max. 48 slots for 4 PCI Box
Not moutable	
Not moutable	24 Limitation for 10G LAN and Infiniband: Total 16 for each physical partition
Not moutable	
Not moutable	16 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.
Not moutable	
Not moutable	
Not moutable	24 InfiniBand cards in Windows is usable in the following restricted environment. - the number of CPU core ≤64 - IB card ≤ 2
Not moutable	

Not moutable	- Memory amount of a partition ≤ 1TB ~~(1) Limitation for 10G LAN and Infiniband: Total 16 for each physical partition~~
Not moutable	~~(2) Limitaton for Infiniband : max. 2 for each physical partition for Windows.~~
Not moutable	48
Not moutable	48
Not moutable	
Not moutable	
Not moutable	48
Not moutable	48
Not moutable	48
Not moutable	8

A : Available
NA : Not Available

Product name	Order number	Model			OS						
		PRIMEQUEST 2400E	PRIMEQUEST 2800E	PRIMEQUEST 2800B	Win2012 R2	Win2012	Win2008 R2	RHEL	SLES	VMware vSphere 5	OVM
PRIMEQUEST 2400E Base Cabinet	MCF2AC111	A	NA	NA	A	A	A	A	A	A	A
PRIMEQUEST 2800E Base Cabinet	MCF3AC111	NA	A	NA	A	A	A	A	A	A	A
PRIMEQUEST 2800B Base Cabinet	MCF3AC111B	NA	NA	A	A	A	A	A	A	A	A
System board	MC-2HSB51	A	NA	NA	A	A	A	A	A	A	A
System board	MC-3HSB51	NA	A	NA	A	A	A	A	A	A	A
System board	MC-3HSB51B	NA	NA	A	A	A	A	A	A	A	A
SAS RAID controller card mount kit	MC-0HCK11	A	A	A	A	A	NA	A	A	A	A
CPU(Xeon E7-4890v2)	MC-2BCA11	A	NA	NA	A	A	A	A	A	A	A
CPU(Xeon E7-8890v2)	MC-3BCA11	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	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	A	NA	NA	A	A	A	A	A	A	A
CPU(Xeon E7-8850v2)	MC-3BCB11	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	A	NA	NA	A	A	A	A	A	A	A
CPU(Xeon E7-8893v2)	MC-3BCD11	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	A	NA	NA	A	A	A	A	A	A	A
Memory Extension Board	MC-3HMB11	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	A	NA	NA	A	A	A	A	A	A	A
16GB Memory (8GB DDR3 DIMM x2)	MC-3CB511	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	A	NA	NA	A	A	A	A	A	A	A
32GB Memory (16GB DDR3 DIMM x2)	MC-3CB611	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	A	NA	NA	A	A	A	A	A	A	A
64GB Memory (32GB DDR3 DIMM x2)	MC-3CC711	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	A	NA	NA	A	A	A	A	A	A	A
128GB Memory (32GB DDR3 DIMM x2)	MC-3CC811	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	A	A	A	A	A	A	A	A	A	A
I/O Unit (1GbE)	MC-2HUX31	A	NA	NA	A	A	A	A	A	A	A
I/O Unit (1GbE)	MC-3HUX31	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	A	NA	NA	A	A	A	A	A	A	A
I/O Unit (10GbE)	MC-3HUX41	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-5HDU11	A	A	A	A	A	NA	A	A	A	A
200GB SAS SSD	MC-5DK731	A	A	A	A	A	NA	A	A	A	A
400GB SAS SSD	MC-5DK841	A	A	A	A	A	NA	A	A	A	A
800GB SAS SSD	MC-5DK911	A	A	A	A	A	NA	A	A	A	A
1.6TB SAS SSD	MC-5DKA11	A	A	A	A	A	NA	A	A	A	A
300GB Hard Disk Drive (15,000rpm)	MC-5DS731	A	A	A	A	A	NA	A	A	A	A
300GB Hard Disk Drive (10,000rpm)	MC-5DS741	A	A	A	A	A	NA	A	A	A	A
600GB Hard Disk Drive (10,000rpm)	MC-5DS921	A	A	A	A	A	NA	A	A	A	A

900GB Hard Disk Drive (10,000rpm)	MC-5DSA21	A	A	A	A	A	NA	A	A	A	A	
1.2TB Hard Disk Drive (10,000rpm)	MC-5DSB11	A	A	A	A	A	NA	A	A	A	A	
200V High efficiency PSU	MC-5HPS41	A	A	A	A	A	A	A	A	A	A	
100V/200V normal PSU	MC-5HPS61	A	A	A	A	A	A	A	A	A	A	
FAN Unit	MC-5HFA41	A	A	A	A	A	A	A	A	A	A	
IEC AC(100V/200V) Cable (1m)	MC-0HCA81	A	A	A	—	—	—	—	—	—	A	
IEC AC(100V/200V) Cable (3m)	MC-0HCA83			A							A	
PCI BoX	MC-0HPB31	A	A	A	A	A	A	A	A	A	A	
PSU for PCI BoX	MC-0HPS41	A	A	A	A	A	A	A	A	A	A	
IEC AC(100V/200V) Cable (1m) for PCI BoX	MC-0HCAB1	A	A	A	—	—	—	—	—	—	A	
IEC AC(100V/200V) Cable (3m) for PCI BoX	MC-0HCAB3	A	A	A							A	
SAS RAID controller card	MC-0JSR31	A	A	A	A	A	NA	A	A	A	A	
Flash Back-up Unit	MC-0JFB11	A	A	A	A	A	NA	A	A	A	A	
Single Channel 8Gbps Fibre Channel Card	MC-0JFC31	A	A	A	A	A	A	A	A	A	A	
Single Channel 8Gbps Fibre Channel Card	MC-0JFC91	A	A	A	A	A	A	A	A	A	A	
Dual Channel 8Gbps Fibre Channel Card	MC-0JFC41	A	A	A	A	A	A	A	A	A	A	
Dual Channel 8Gbps Fibre Channel Card	MC-0JFCA1	A	A	A	A	A	A	A	A	A	A	
Single Channel 16Gbps Fibre Channel Card	MC-0JFC71	A	A	A	A	A	A	A	A	A	A	
Dual Channel 16Gbps Fibre Channel Card	MC-0JFC81	A	A	A	A	A	A	A	A	A	A	
Dual Channel 1000BASE-T Card	MC-0JGE81	A	A	A	A	A	A	A	A	A	A	
Quad Channel 1000BASE-T Card	MC-0JGE91	A	A	A	A	A	A	A	A	A	A	
Dual Channel 1000BASE-T Card	MC-0JGEA1	A	A	A	A	A	A	A	A	A	A	
Quad Channel 1000BASE-T Card	MC-0JGEB1	A	A	A	A	A	A	A	A	A	A	
Dual Channel 10G BASE-T Card	MC-0JXE31	A	A	A	A	A	A	A	A	A	A	
Dual Channel 10G BASE Card	MC-0JXE41	A	A	A	A	A	A	A	A	A	A	
Dual Channel 10Gbps LAN Card (SFP+)	MC-0JXE51	A	A	A	A	A	A	A	A	A	A	
Dual Channel FCoE card (10Gbps)	MC-0JCE61	A	A	A	A	A	A	A*1	A	A	NA	*1 RHEL7 is not supported
Dual Channel FCoE card (10Gbps)	MC-0JCE62	A	A	A	A	A	A	A*1	A	A	NA	
Dual Channel 10Gbps LAN Card (SFP+)	MC-0JCE71	A	A	A	A	A	A	A*1	A	A	NA	
Single channel 40Gbps Infiniband HCA card	MC-0JHC11	A	A	A	NA	A	A	A*2	NA	NA	NA	*2 RHEL6.6 is not supported
Dual channel 40Gbps Infiniband HCA card	MC-0JHC21	A	A	A	NA	A	A	A*2	NA	NA	NA	
Single channel 56Gbps Infiniband HCA card	MC-0JHC31	A	A	A	NA	A	A	A*2	NA	NA	NA	
Dual channel 56Gbps Infiniband HCA card	MC-0JHC41	A	A	A	NA	A	A	A*2	NA	NA	NA	
Dual channel 6Gbps SAS RAID controller ca	MC-0JSR41	A	A	A	A	A	NA	A	A	A	A	
FBU Mount Kit for Ext. SAS RAID Card	MC-0HCK21	A	A	A	A	A	NA	A	A	A	NA	
FBU for Ext. SAS RAID Card	MC-0JFB21	A	A	A	A	A	NA	A	A	A	NA	
Dual channel 6Gbps SAS Card	MC-0JSS21	A	A	A	A	A	A	A	A	A	A	
PCIe SSD Card (365GB)	MC-0JSD31	A	A	A	A	A	A	A	A	A	NA	
PCIe SSD Card (785GB)	MC-0JSD11	A	A	A	A	A	A	A	A	A	NA	
PCIe SSD Card (1.2TB)	MC-0JSD21	A	A	A	A	A	A	A	A	A	NA	
PCIe SSD Card (800GB)	MC-0JSD61	A	A	A	A	A	A	A	A	NA	NA	
PCIe SSD Card (1.2TB)	MC-0JSD71	A	A	A	A	A	A	A	A	NA	NA	
PCIe SSD Card (2.0TB)	MC-0JSD81	A	A	A	A	A	A	A	A	NA	NA	
PCI BoX connection card	MC-0JPC11	A	A	A	A	A	A	A	A	A	NA	

Extended Partition

This function is not available YET
This will be available at the end of June.

(1) Max. number of partitions

- PRIMEQUEST 2400E can have max. 4 eXetended Partitions
  where two eXetended Partitions are created in one Physical Partitions(PPAR)

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

- To setup eXetended 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 P	Granularity of eXetended 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 eXetended Partition environment,
it is required to mount VGA and USB cards per eXetended Partition .

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

Componen	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
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 : "Intertnal SSD for SB", all of Seagate SSD are removed,
12.02.2014		Sheet : "Intertnal SSD for SB", ME SSD for 200GB, 400GB, and 1.6TB are postponed
12.02.2014		Sheet : "Intertnal SSD for DU", all of Seagate SSD are removed,
12.02.2014		Sheet : "Intertnal 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 postoned
12.02.2014		Sheet " PCI card4", PCIe SSD 2.4TB is postoned
12.02.2014		Sheet : PCI Box, add statement that max. number of PCI Box for PQ2400E AC100V is one
21.02.2014		sheet "PCI Card4" : Endurance of PCIe SSD
10.03.2014		Sheet "Base Unit Power cord" : Rellevant order numbers are integrated to System Architect.
10.03.2014		Sheet "PCI Box (2)" : Rellevant 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 maax. Quantity for PCIe card is added.
10.04.2014		Sheet "Sytem 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 "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" : Newly added matrix
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
04.11.2014		Sheet: "PCI Cards", Orderable date for Qlogic FC cards is changed
04.11.2014		Sheet: "PCI Cards2", Orderable date and EOL date for FCoE cards are added.
04.11.2014		Sheet: "PCI Cards4", Orderable date and EOL date for PCIe SSD cards are added.
04.11.2014		Sheet: "Max. Qty. of PCIe Card", FCoE cards added.
04.11.2014		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 explanatiosn of FCoE cards and Infiniband cards
16.02.2015		Sheet:"OS x Ordr 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