PRIMEQUEST 2400E2

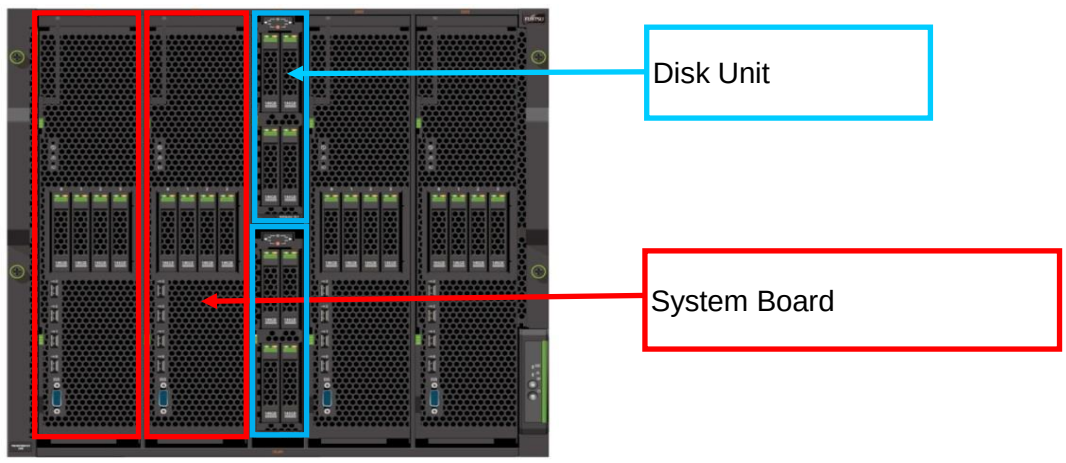
System configurator and order-information guide

July 2017

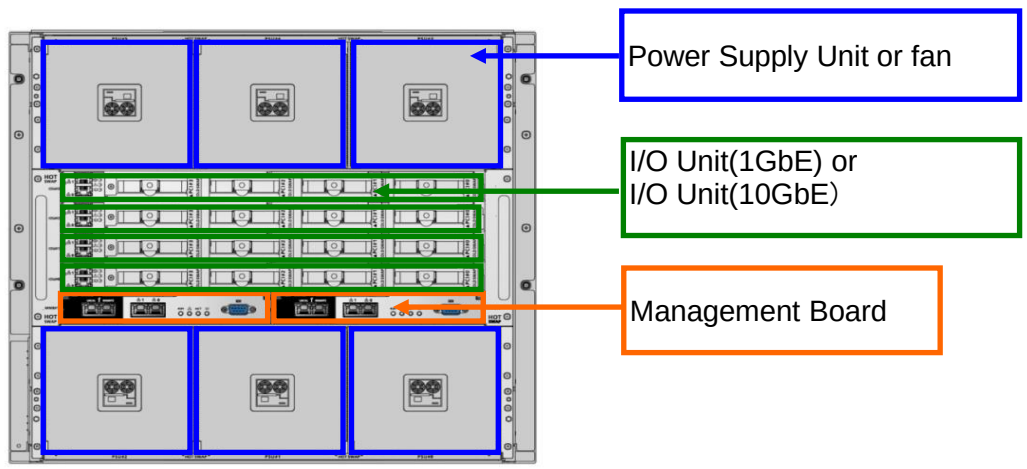
Contents

PRIMEQUEST SERVER

Front side



Rear side

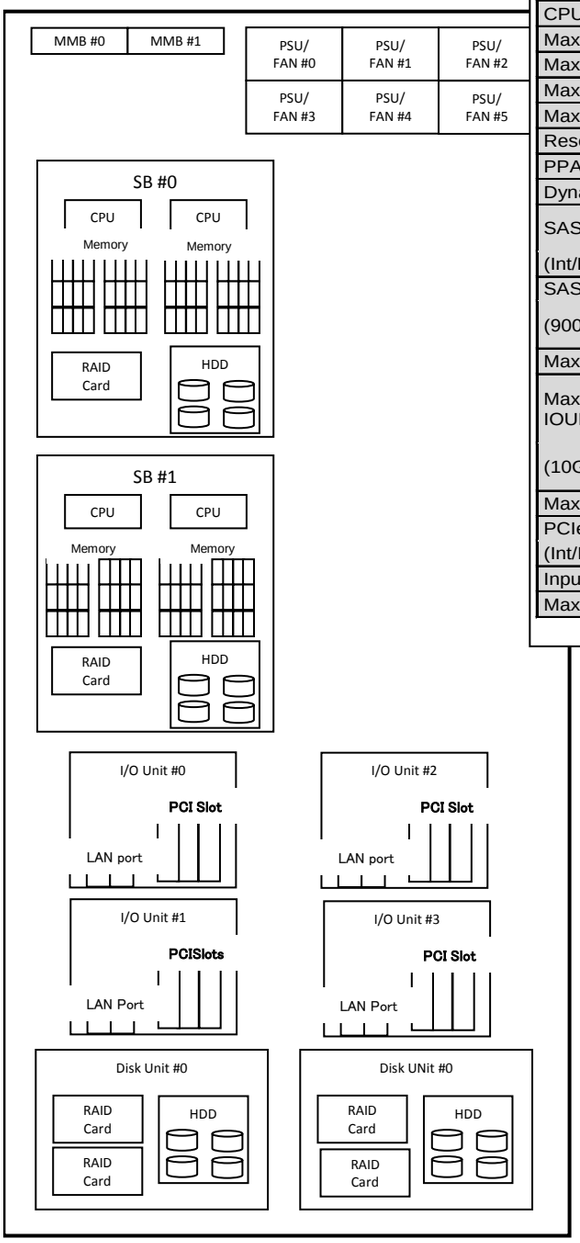


Part Numbers Legend:

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

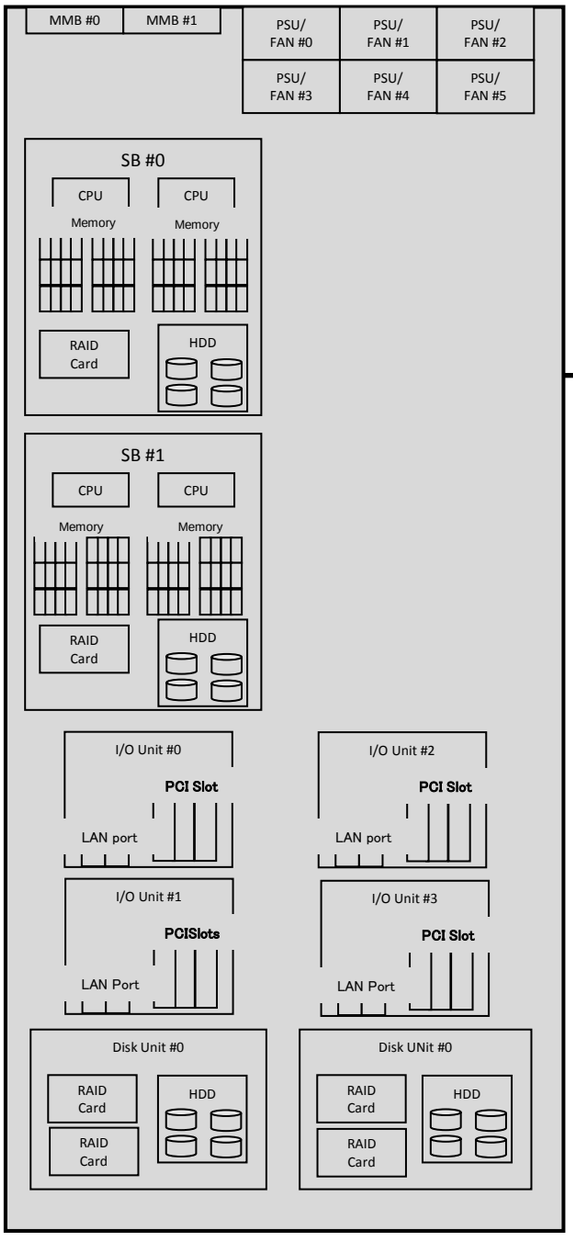
MCX****** as products shipped separately from base units (**L**oose **D**elivery)
nt)

00E Spec



Model	PQ 2400E2
CPU	Haswell
Max CPU No./ Core No.	4/72
Max Mem Slot No.	96
Max Mem[TB]	12
Max SB No.	2
Reserved SB	Yes
PPAR	2
Dynamic Reconfiguration	Yes
SAS drive slot (Int/Ext)	16 / 576
SAS HDD (Int/Ext) (900GB HDD/slot)	28.8TB / 1036TB
Max IOU No.	4
Max OnB-GbE ports on 4 IOUL (10GbE on 4 IOUF)	8
Max PCI-Box No.	4
PCIe Slots (Int/Int+Ext)	16 / 56
Input Voltage (AC)	100-240V
Max Operating Temp.	35°C

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

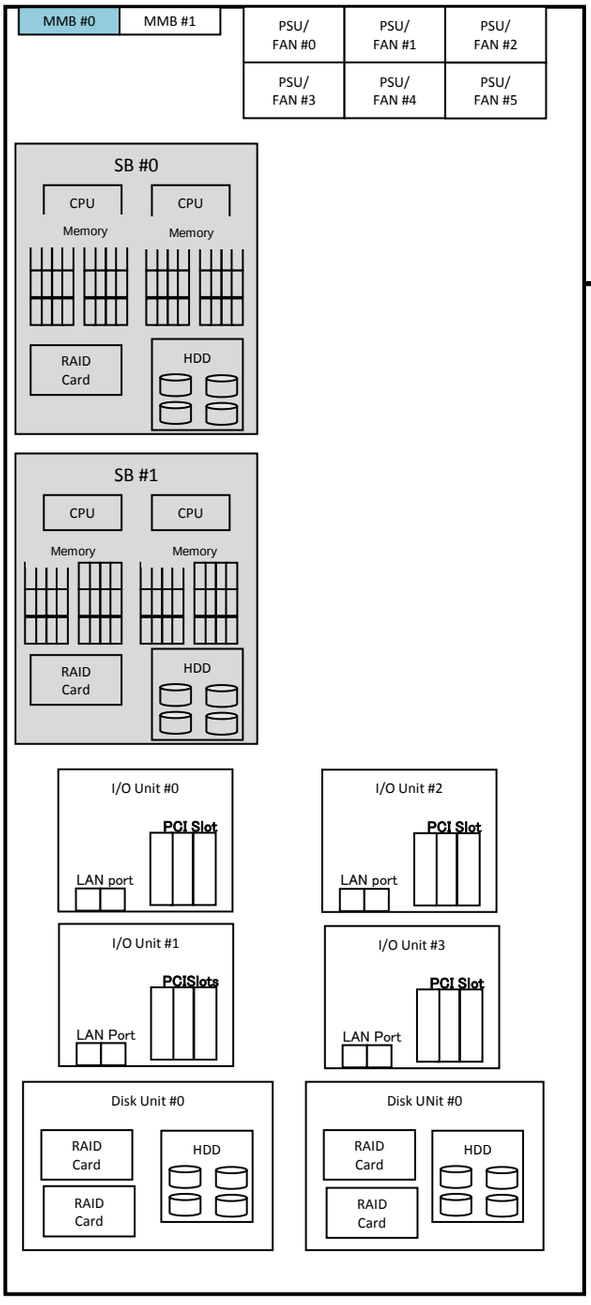
PRIMEQUEST 2400E2 Base Unit

MCG2AC111

- 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-2HSB71 MCX2HSB71 (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-2HSBV1 MCX2HSBV1 (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

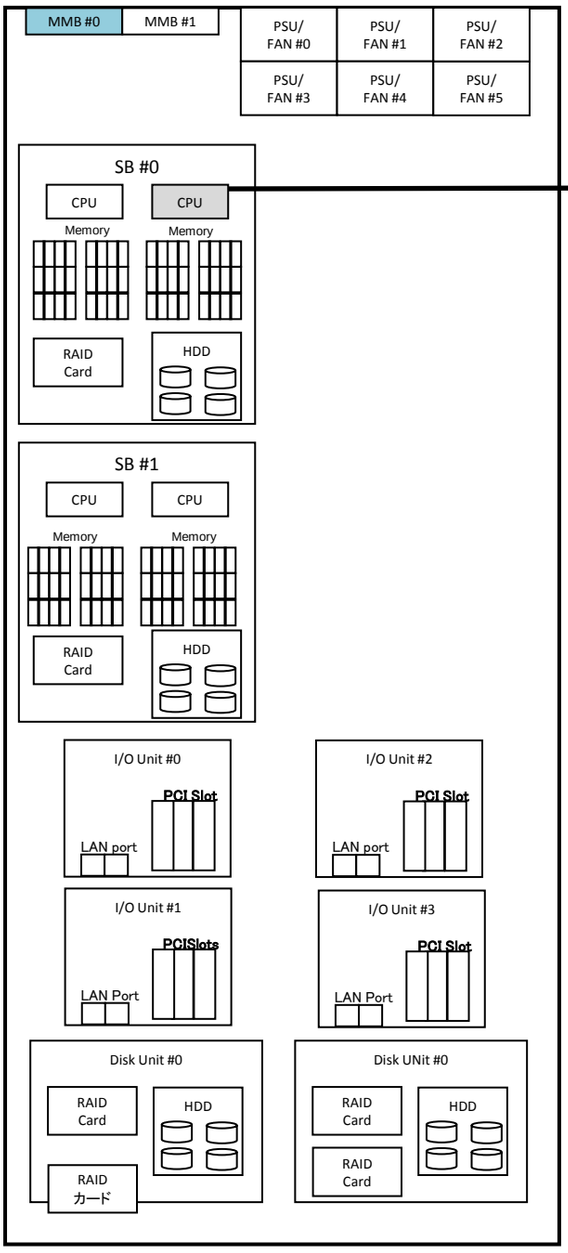
* If a partition includes multiple SB, two CPU must be mo

Functions below are NOT AVAILABLE with System Board with TPM (MC-2HSBV1)
.
- 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.



One product must be chosen

CPU(Xeon E7-8893v3)
CPU Module(3.2GHz/4 core/45MB cache)
MC-2BDD11 MCX2BDD11 (LD)
- Max. two CPU per System Board. Min one CPU per System Board

CPU(Xeon E7-8891v3)
CPU Module(2.80GHz/10 core/45MB cache)
MC-2BDG11 MCX2BDG11 (LD)
- Max. two CPU per System Board. Min one CPU per System Board

CPU(Xeon E7-8890v3)
CPU Module(2.50GHz/18 core/45MB cache)
MC-2BDA11 MCX2BDA11 (LD)
- Max. two CPU per System Board. Min one CPU per System Board

CPU(Xeon E7-8880v3)
CPU Module(2.30GHz/18 core/45MB cache)
MC-2BDE11 MCX2BDE11 (LD)
- Max. two CPU per System Board. Min one CPU per System Board

CPU(Xeon E7-8870v3)
CPU Module(2.10GHz/18 core/45.0MB cache)
MC-2BDF11 MCX2BDF11 (LD)
- Max. two CPU per System Board. Min one CPU per System Board

CPU(Xeon E7-8867v3)
CPU Module(2.5GHz/16 core/45.0MB cache)
MC-2BDC11 MCX2BDC11 (LD)
- Max. two CPU per System Board. Min one CPU per System Board

CPU(Xeon E7-8860v3)
CPU Module(2.2GHz/16 core/40.0MB cache)
MC-2BDB11 MCX2BDB11 (LD)
- Max. two CPU per System Board. Min one CPU per System Board

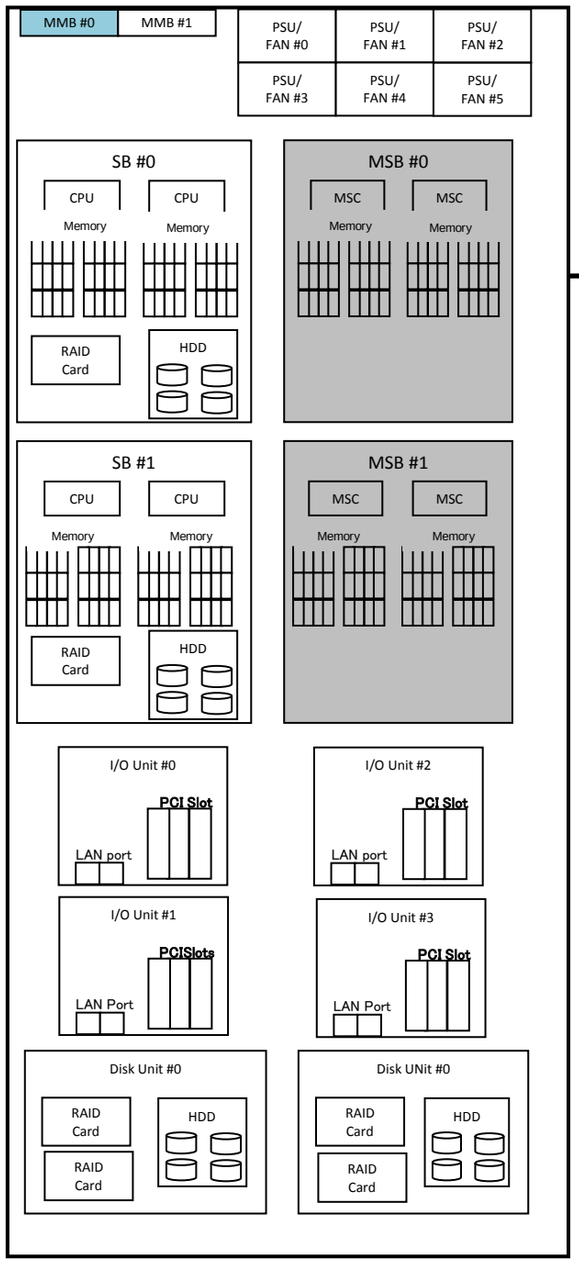
CPU moounting condition

- 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

MSB

Memory Scale-up Board



This is optional product.

Memory Scale-up Board (Enable)

Max. 2 pcs per base unit

Memoy Scale-up Board

MC-2HMS81 MCX2HMS81 (LD)

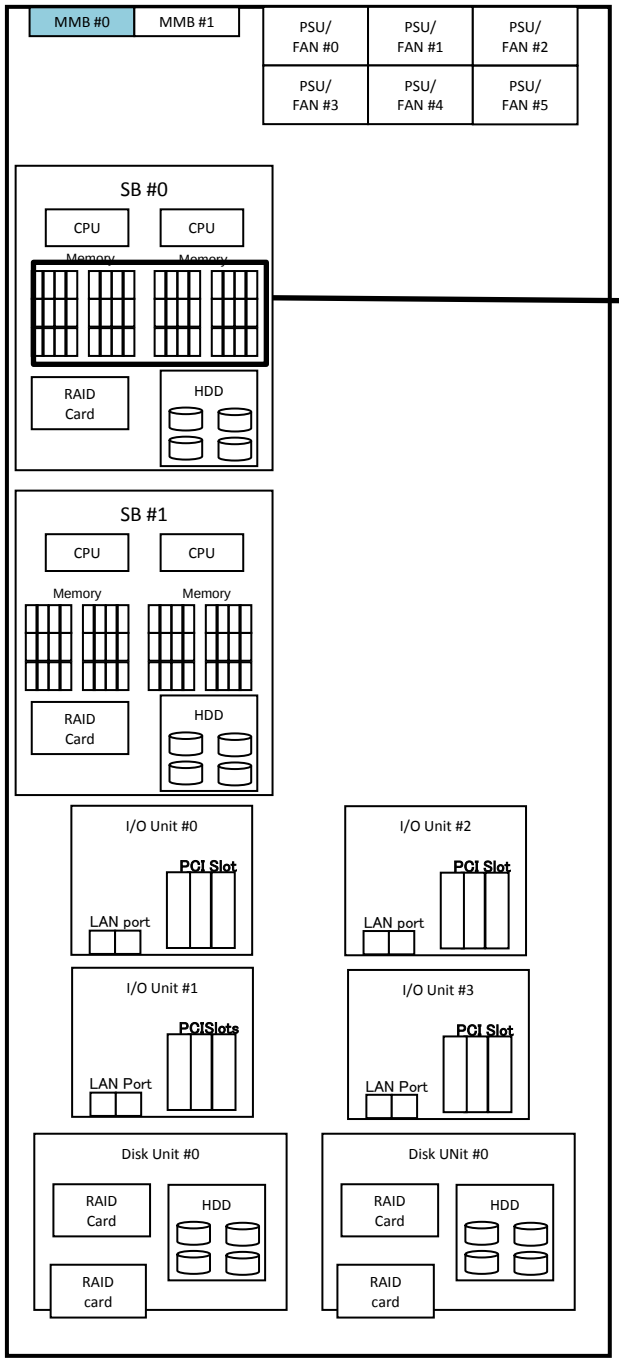
MSB has sprcifications below:

- 48 memory slots
- One MSB includes : Two Memory Scale-up Controllers, and 4 Jordan Creek Memory Buffers, and two Mezannine Boards included in one MSB.
- Extended Partition cannot be created in Physical Partition if this includes MSB.
- MSB can not be replaced by other MSB nor cannot replace other MSB even if Reserved SB function is deployed.
- MSB can not be replaced by other MSB nor cannot replace other MSB even if Dynamic Recnfiguration is deployed.

SB and MSB combination in Physical Partition

	SB	MSB	Remark
Qty.	1	0	
	1	1	SB must contain 2 CPUs
	1	2	SB must contain 2 CPUs
	1	3	SB must contain 2 CPUs
	2	0	
	2	1	SB must contain 2 CPUs
	2	2	SB must contain 2 CPUs

Memory



For details, please refer to "Memory Mounting Conditon"

Options

Memory Expansion Board

MC-2HMB21 MCX2HMB21 (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 DDR4 DIMM x 2)

MC-2CD511 MCX2DB511 (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 1866MT/s RDIMMs are included in this product

32GB memory (16GB DDR4 DIMM x 2)

MC-2CD611 MCX2CD611 (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 1866MT/s RDIMMs are included in this product

64GB memory (32GB DDR4 DIMM x 2)

MC-2CD711 MCX2CD711 (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 1866 MT/s LRDIMM are included in this product

64GB memory (32GB DDR4 DIMM x 2)

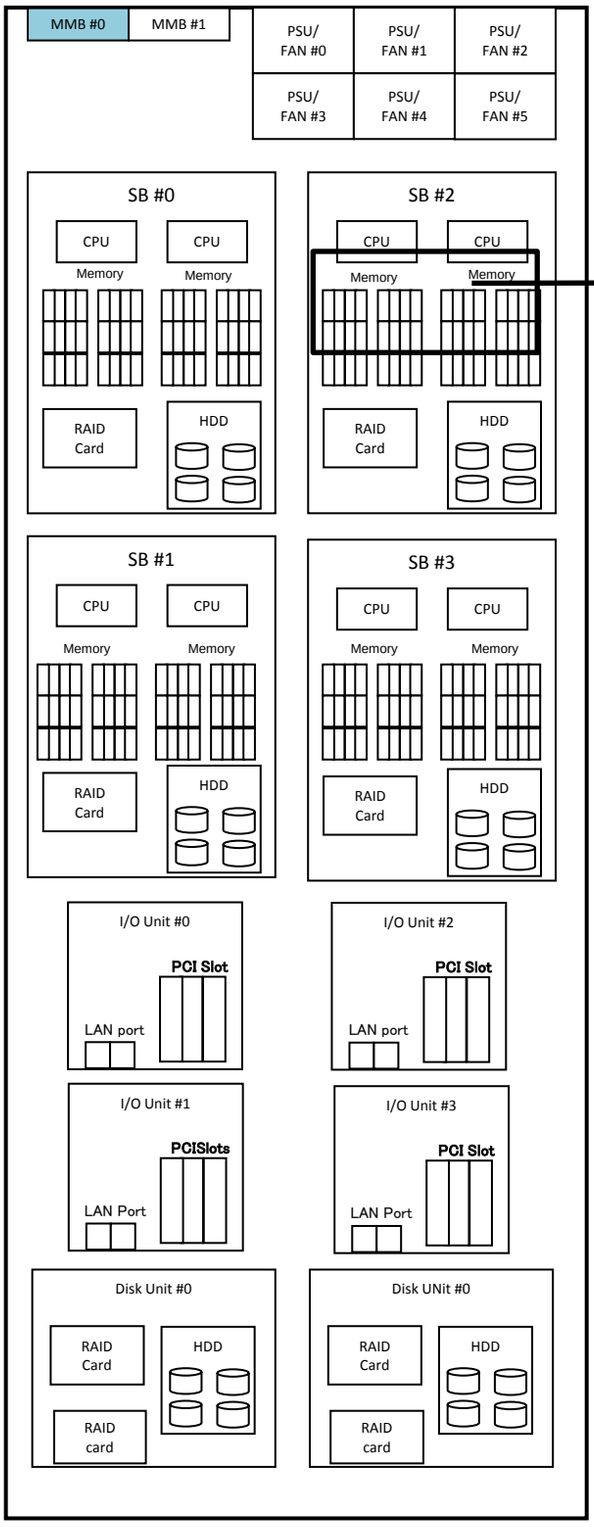
MC-3CD721 MCX3CD721 (LD)
- Min. one Memory (2 x DIMMs) must be mounted for one CPU. Max. 12 memories (24 DIMMs) can be mounted for one CPU.
- Two 32GB 1866 MT/s RDIMM are included in this product

128GB memory (64GB DDR4 DIMM x 2)

MC-2CD811 MCX2CD811 (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 DDR4 XXXX MT/s LRDIMMs are included in this product

Memory Mode

Memory Mode



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.

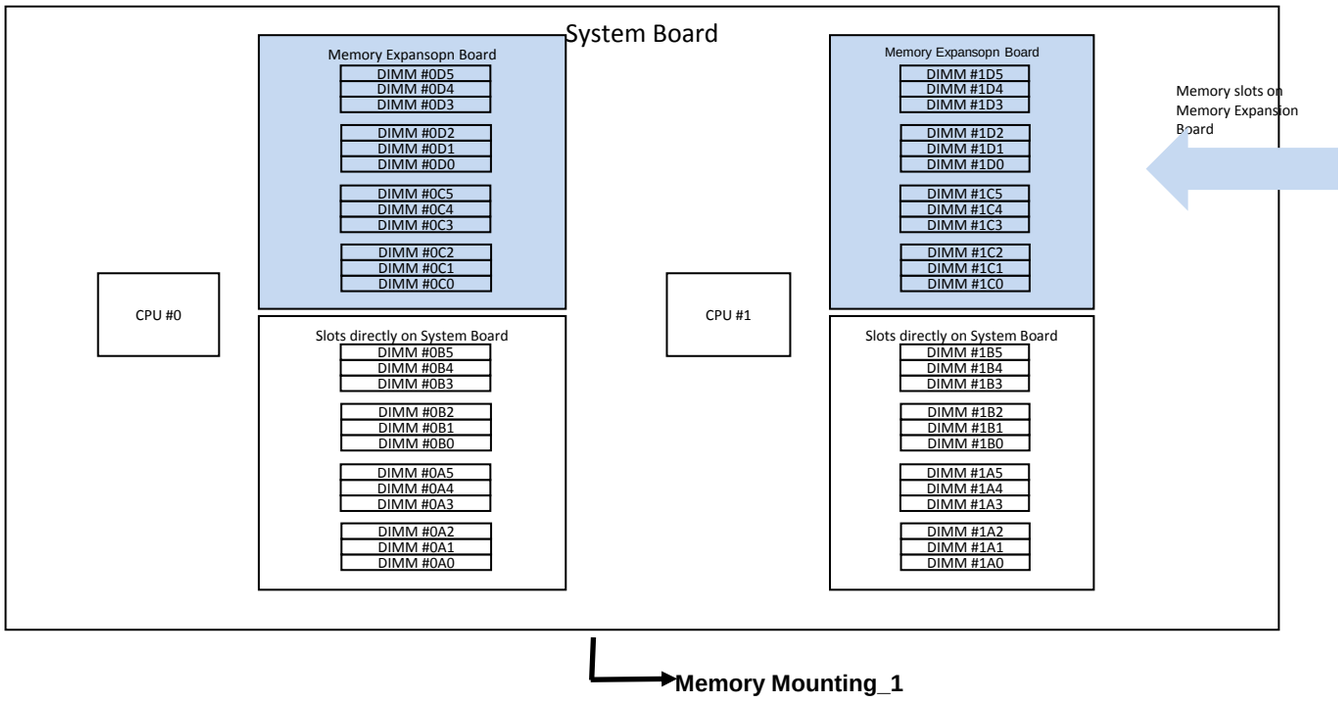
Combination of Memory Mode, number of Memory, and Memory Expansion Board

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



	PCI Address Mode (Bus Mode) is NOT enabled		PCI Address Mode (Bus Mode) is disbled	
	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) is enabled	Case2	Case2	Not applicable	Not applicable
Dynamic Partitioning (Enable) (MC-0PDP2) is disabled	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	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]

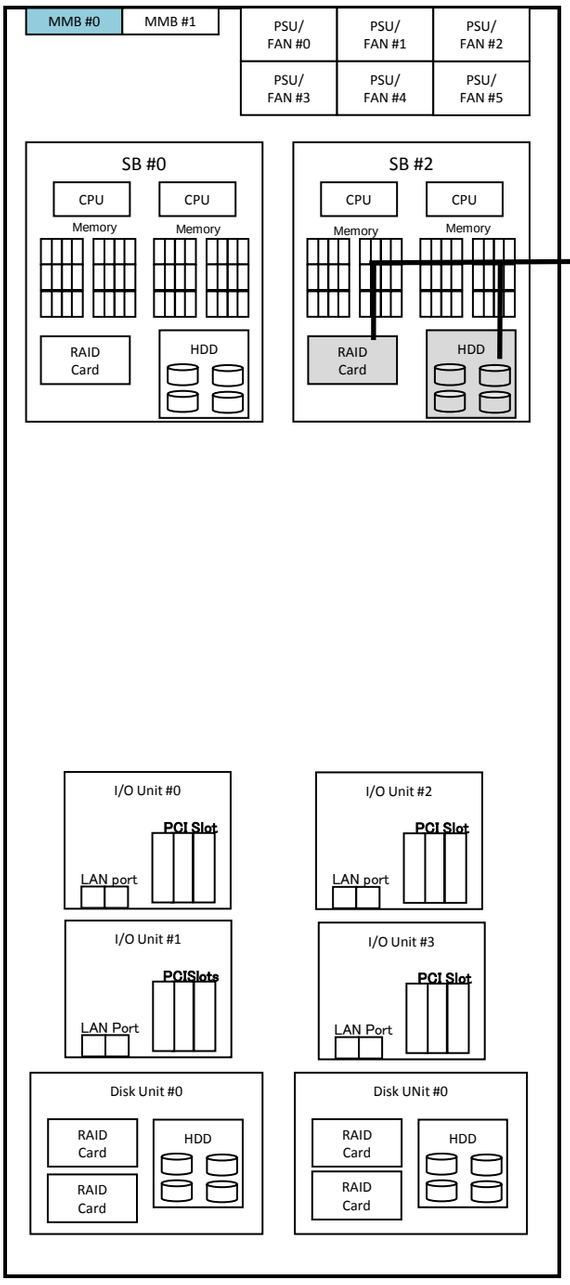
- At least two DIMMs have to be installed in one CPU.
- When only CPU#0 is installed in the SB, the number of installation order is skipped in CPU#1.

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



mandatory

RAID Controll Card Mount Kit

MC-0HCK31 MCX0HCK31 (LD)
- This product is necessary to RAID Controller to System Board

SAS RAID Controll Card

MC-0JSR51 MCX0JSR51 (LD)
- EP420i
- 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
- 12Gbps for each disk drive. 2GB of cache memory
- RAID 0/1/1E/5/6/10 and hot spare supported

Option

Flash Back-up Unit

MC-0JFB31 MCX0JFB31 (LD)
- Flash Backup Unit for RAID Controller with cache memory

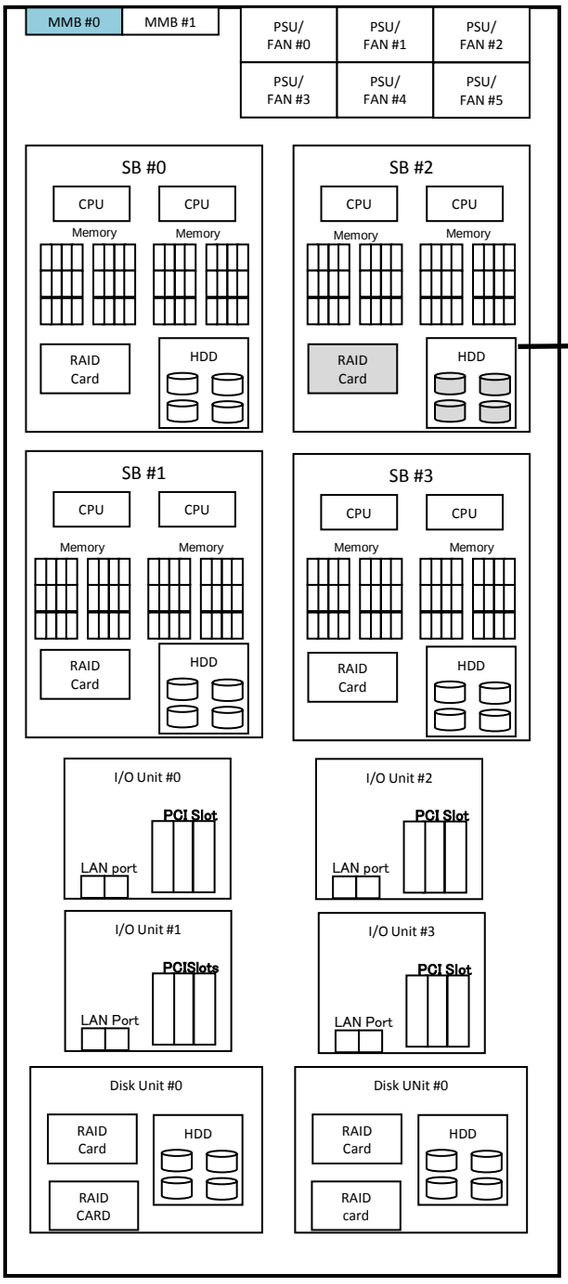
Option

RAID Advanced Software Options

MC-0KLA11 MCX0KLA11 (LD)

License Activation Key for CacheCade 2.0 and FastPath for PRAID EP420i

Internal HDD for SB



RAID Controller is neccesary to mount internal HDD or SSD.

Max. 4 pcs per SB

300GB Internal HDD (15,000rpm)
- 6Gbps, hot plug, 512n format

MC-5DS751 MCX5DS751 (LD)

300GB Internal HDD (10,000rpm)
- 12Gbps, hot plug, 512n format

MC-5DS741 MCX5DS741 (LD)

600GB Hard Disk Drive (15,000rpm)
- 12Gbps, hot plug, 512n format

MC-5DS931 MCX5DS931 (LD)

600GB Hard Disk Drive (10,000rpm)
- 12Gbps, hot plug, 512n format

MC-5DS921 MCX5DS921 (LD)

900GB Hard Disk Drive (10,000rpm)
- 12Gbps, hot plug, 512n format

MC-5DSA21 MCX5DSA21 (LD)

1.2TB Internal HDD (10,000rpm)
- 12Gbps, hot plug, 512n format

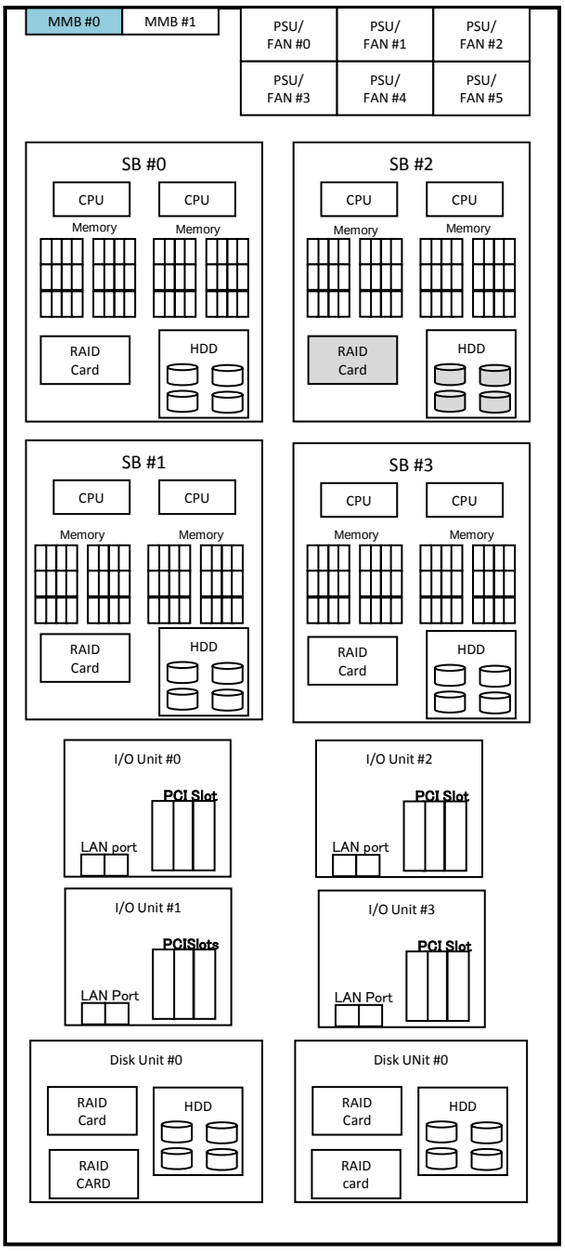
MC-5DSB11 MCX5DSB11 (LD)

1.8TB Internal HDD (10,000rpm)
- 12Gbps, hot plug, 512e format

MC-5DSC21 MCX5DSC21 (LD)

Remark
VMware does not support this 1.8 TB HDD because it does not support HDD of 512e format. For details, please refer to VMware Knoweledge Base.
http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2091600

Internal SSD for SB



RAID Controller is neccesary to mount internal HDD or SSD.

Max. 4 pcs per SB

Option

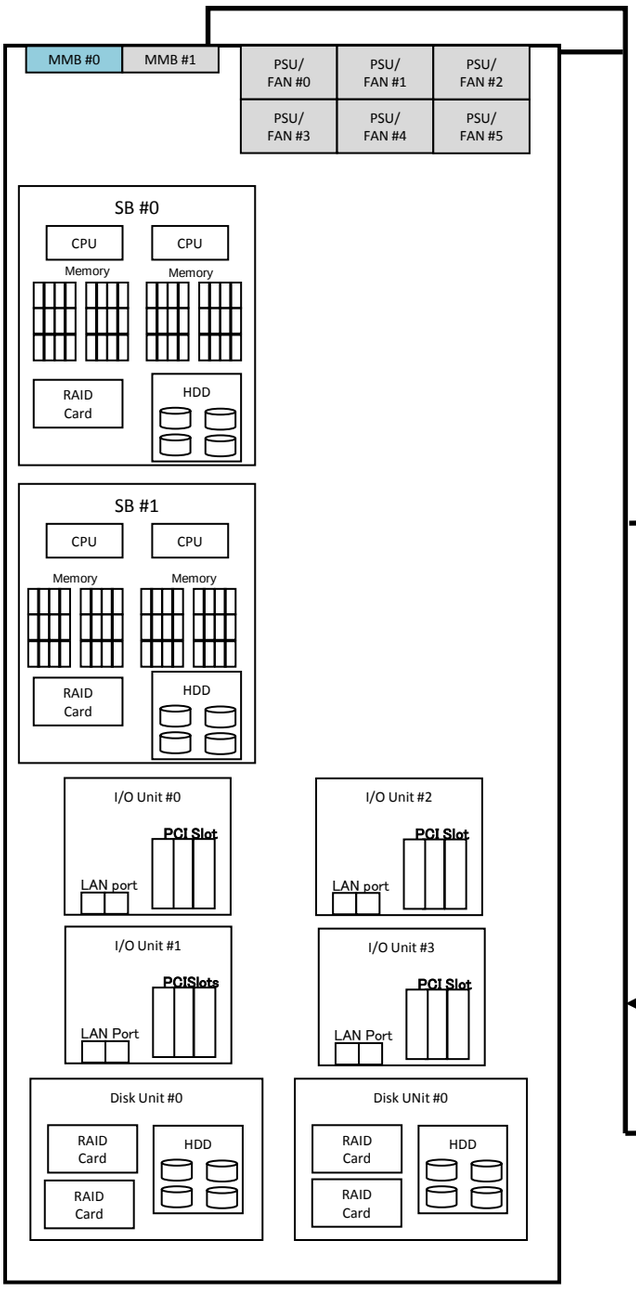
200GB SAS
ME
MC-5DK731 MCX5DK731 (LD)
- 12Gbps, MLC, hot plug

400GB SAS SSD
ME
MC-5DK841 MCX5DK841 (LD)
- 12Gbps, MLC, hot plug

800GB SAS SSD * This product is orderable
ME
MC-5DK911 MCX5DK911 (LD)
- 12Gbps, MLC, hot plug

1.6TB SAS SSD
MC-5DKA11 MCX5DKA11 (LD)
- 12Gbps, MLC, hot plug

III. MMB



Option

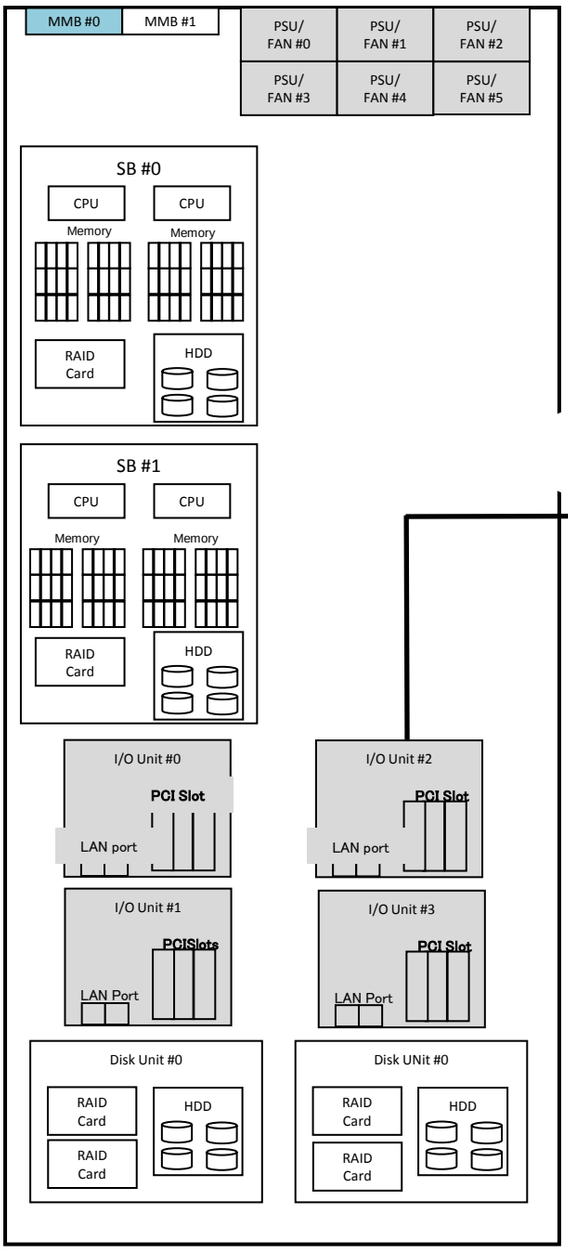
Management Board

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 4 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)

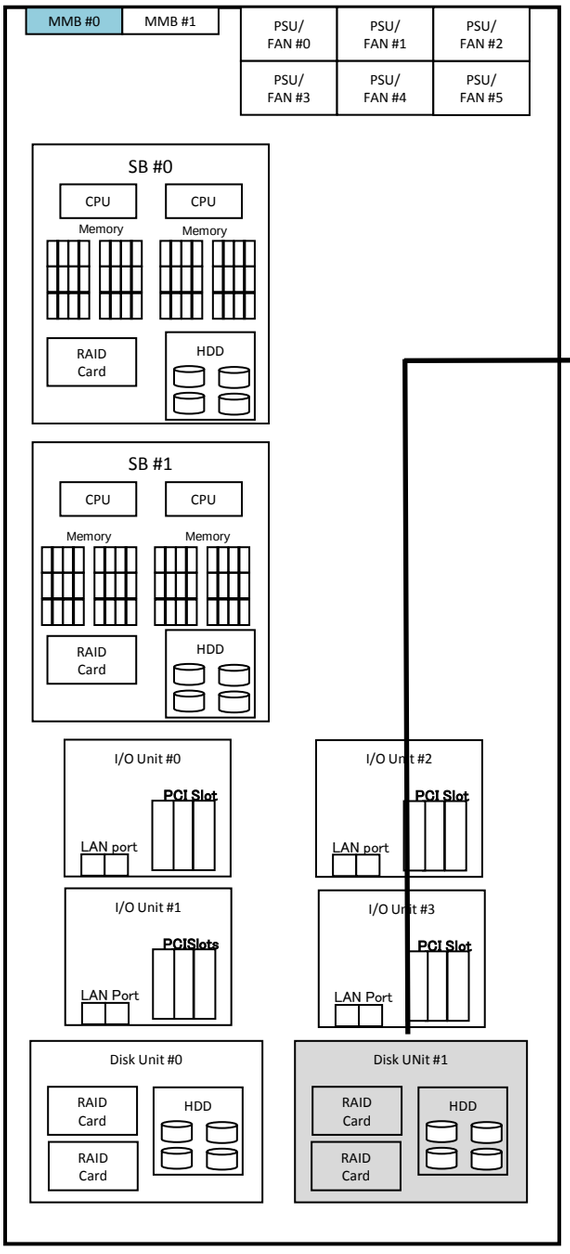
- Min one, Max. four I/O units can be mounted.
- Two LAN ports for 1GbE are in one I/O unit.
- Four PCIe slots (LP) per I/O Unit
- One PCI Box can be connected to PQ by mounting PCI Box Connection card. by mounting one card, six slots in PCI Box becomes available.
- PCIe slots in I/O unit cannot be hot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

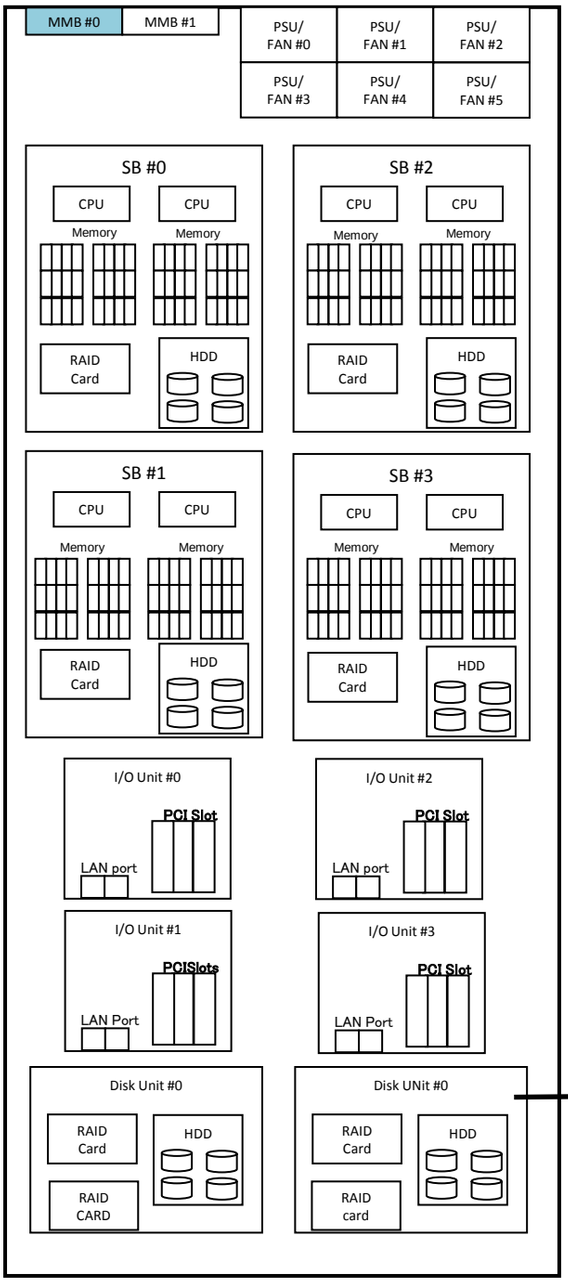
Disk Unit
MC-5HDU21 MCX5HDU21 (LD)
- Max. two units per chassis
- Two RAID Controller cards per Disk Unit can be mounted
- One RAID Controller card allows mounting of four disk drives such as HDD or SSD.

SAS RAID Controll Card
MC-0JSR51 MCX0JS51 (LD)

Flash Back-up Unit
MC-0JFB31 MCX0JFB31 (LD)

RAID Advanced Software Options
MC-0KLA11 MCX0KLA11 (LD)

Internal HDD for DU



RAID Controller is neccesary to mount internal HDD or SSD.

300GB Internal HDD (15,000rpm)
- 6Gbps, hot plug, 512n format
MC-5DS751 MCX5DS751 (LD)

300GB Internal HDD (10,000rpm)
- 12Gbps, hot plug, 512n format
MC-5DS741 MCX5DS741 (LD)

600GB Hard Disk Drive (15,000rpm)
- 12Gbps, hot plug, 512n format
MC-5DS931 MCX5DS931 (LD)

600GB Hard Disk Drive (10,000rpm)
- 12Gbps, hot plug, 512n format
MC-5DS921 MCX5DS921 (LD)

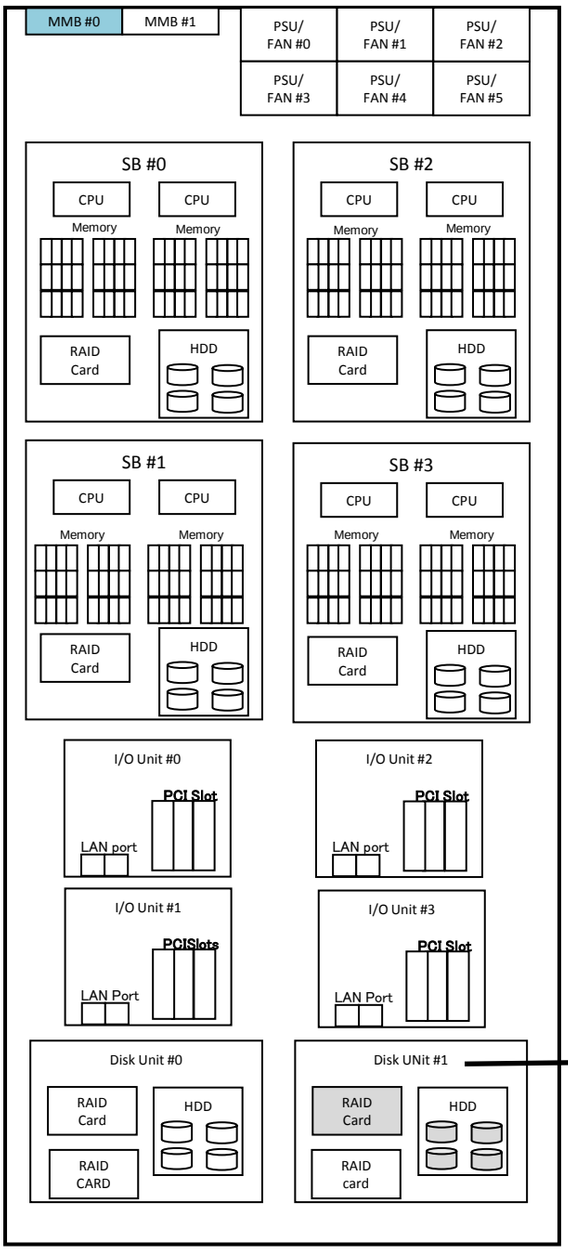
900GB Hard Disk Drive (10,000rpm)
- 12Gbps, hot plug, 512n format
MC-5DSA21 MCX5DSA21 (LD)

1.2TB Internal HDD (10,000rpm)
- 12Gbps, hot plug, 512n format
MC-5DSB11 MCX5DSB11 (LD)

1.8TB Internal HDD (10,000rpm)
- 12Gbps, hot plug, 512e format
MC-5DSC21 MCX5DSC21 (LD)

Remark
VMware does not support this 1.8 TB HDD because it does not support HDD of 512e format. For details, please refer to VMware Knoweledge Base.
http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2091600

Internal SSD for DU



RAID Controller is neccesary to mount internal HDD or SSD.

Option

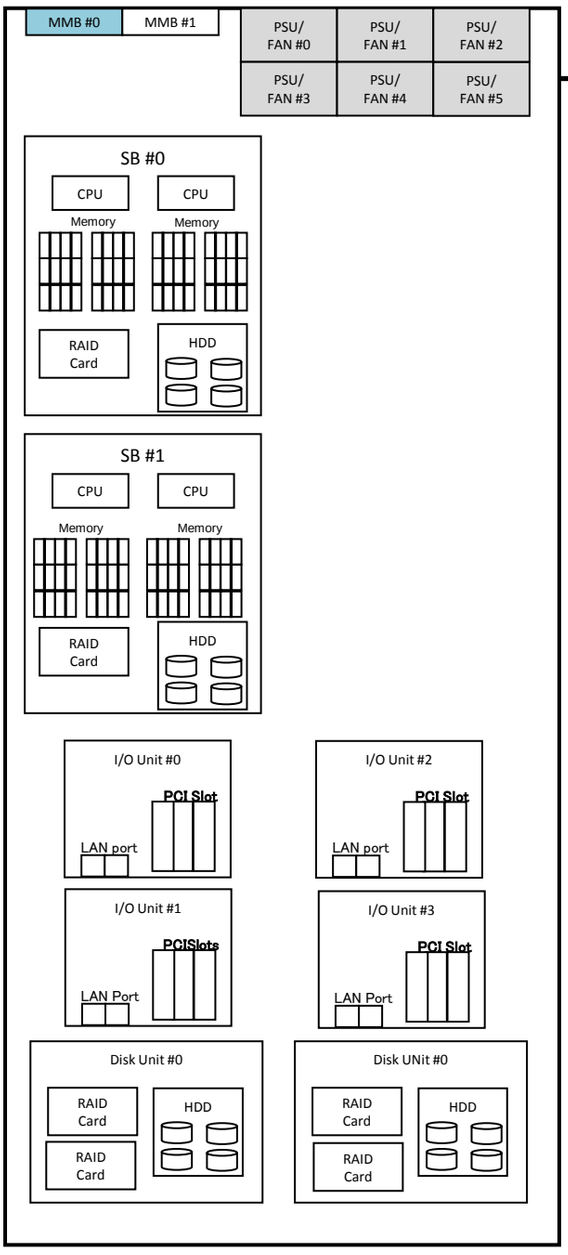
200GB SAS
ME
MC-5DK731 MCX5DK731 (LD)
- 12Gbps, MLC, hot plug

400GB SAS SSD
ME
MC-5DK841 MCX5DK841 (LD)
- 12Gbps, MLC, hot plug

800GB SAS SSD This product is orderable
ME
MC-5DK911 MCX5DK911 (LD)
- 12Gbps, MLC, hot plug

1.6TB SAS SSD
MC-5DKA11 MCX5DKA11 (LD)
- 12Gbps, 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
- 80PLUS® Sliver certified

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

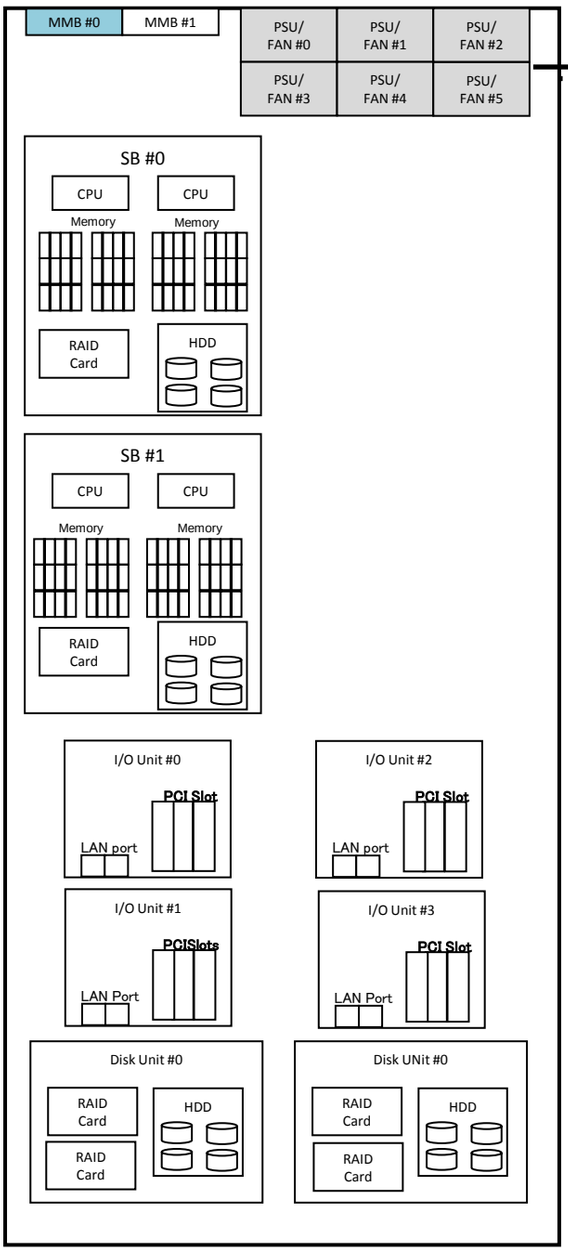
AC Power input	Power feed	Redundancy	# of PSU	PSU Slots
240V	Single	Not redundant	2	0,3
		redundant	2+1	0,1,3
	Dual	-	2X2	0,1,3,4

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

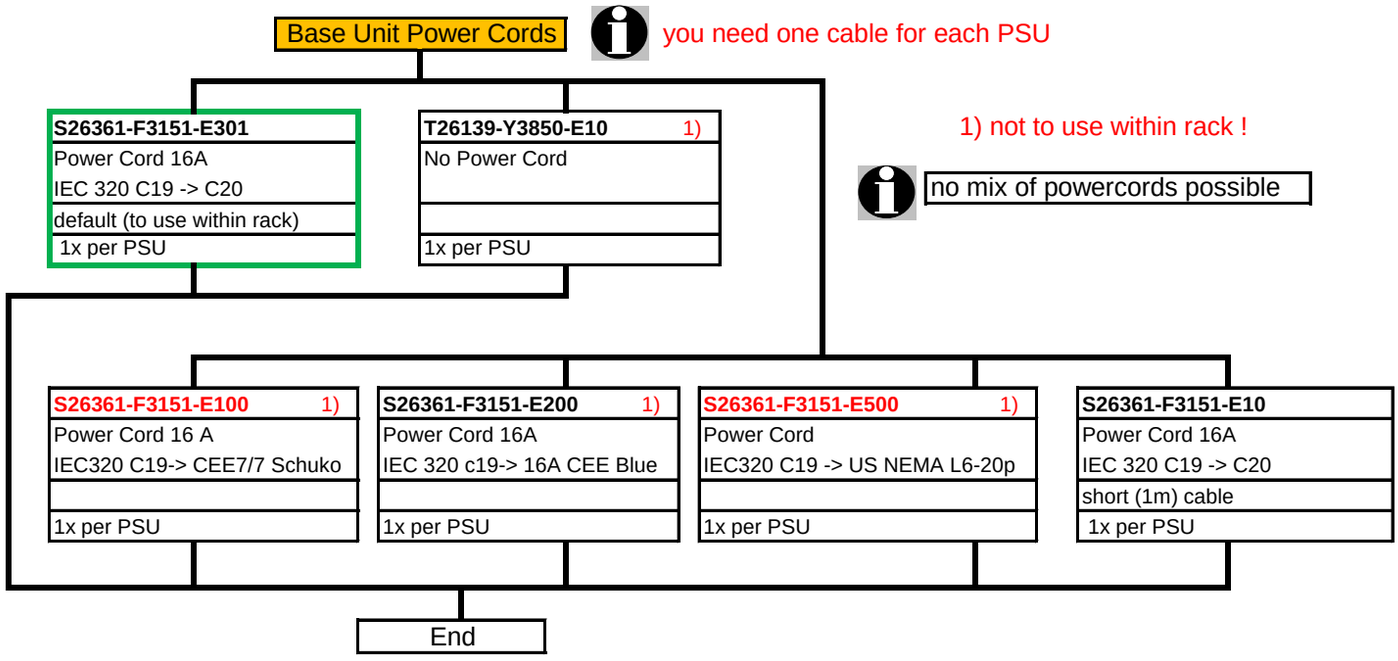
Notice for Base Unit Power Cords for CEMEA&I, UK&Nordic

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



▶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 *1 ~~**MCX0HPB31 (LD) *1**~~

* Order number MC-OHPB31 is usable to place the order for PCI Box even without PRIMEQUEST Base Unit

- 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

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

PSU for PCI Box

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

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

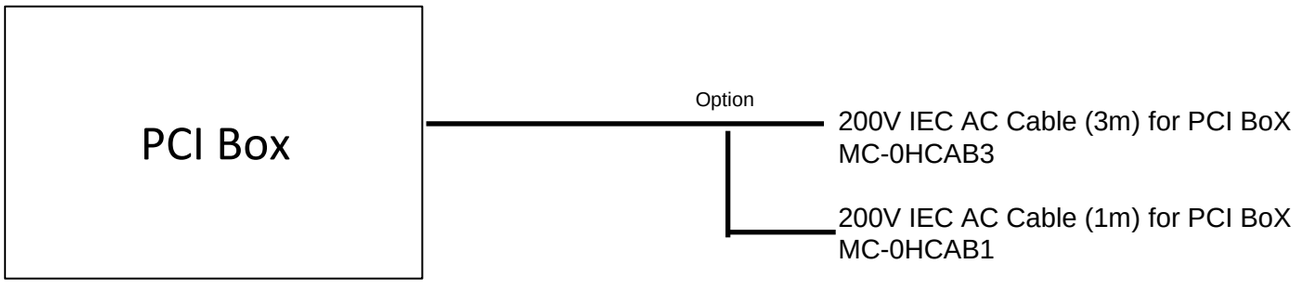
AC power input	Power feed	Redundancy	Number of units
200V / 100V	Single	Available	1
		Not available	1+1
	Dual	-	1×2

Orderable qty	
PSU	power cord
1	1
2	2
2	2

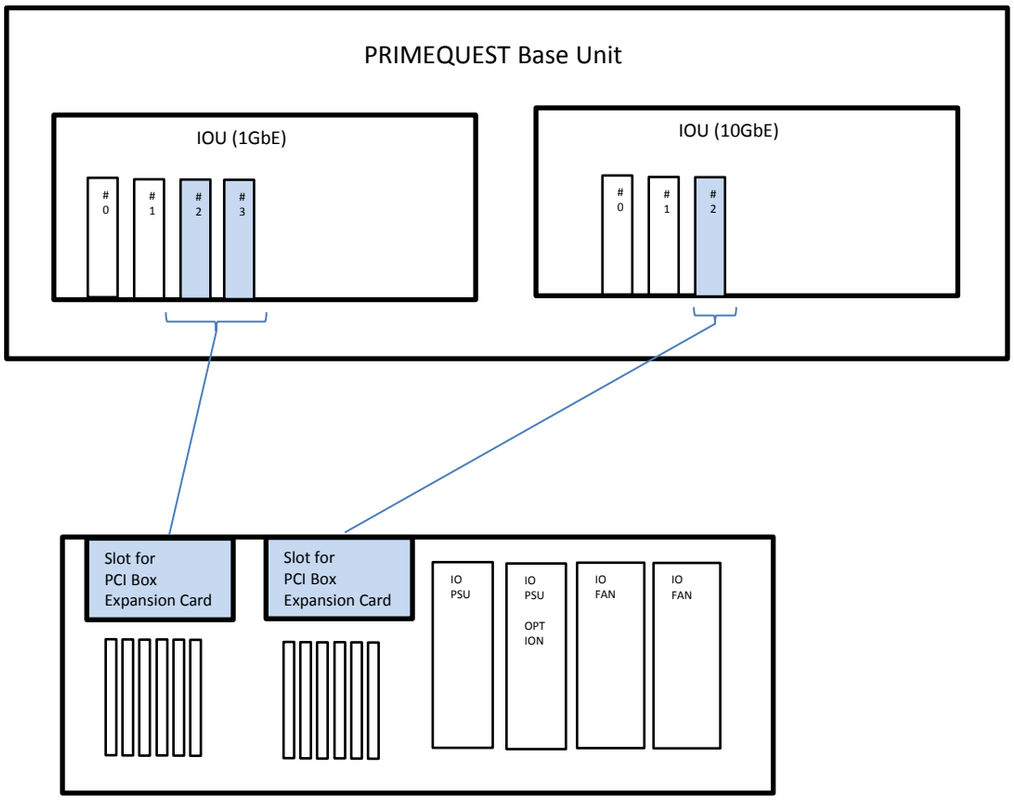
Max. number of PCI Box for PQ2400E with 200VAC connectable is determined below
If PQ2400E uses AC100V, max. number of PCI Box is ONE.

		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

*

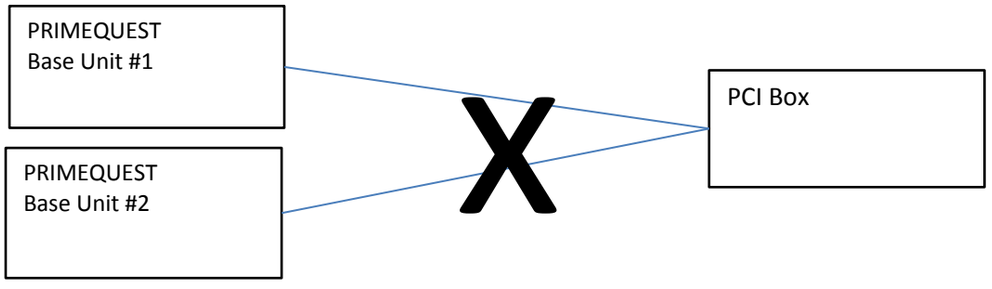

PCI Box
Option
200V IEC AC Cable (3m) for PCI BoX
MC-0HCAB3
200V IEC AC Cable (1m) for PCI BoX
MC-0HCAB1

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



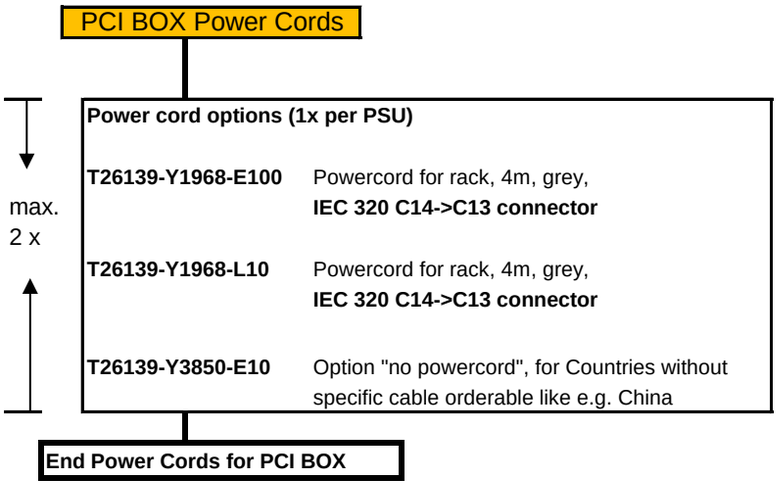
NOTICE

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



Power cord has to be ordered separately

→ **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
- LPe16000, Full High

Dual Channel Fiber Channel Card (16Gbps)
MC-0JFC81 MCX0JFC81 LD
- LPe16002, Low Profile

Dual Channel Fiber Channel Card (16Gbps)
MC-0JFC82
- LPe16002, Full High

Single Channel 8Gbps Fiber Channel Card
MC-0JFC51 MCX0JFC51 LD
- QLE2560, Low Profile

Single Channel 8Gbps Fiber Channel Card
MC-0JFC52
- QLE2560, Full Height

Dual Channel 8Gbps Fiber Channel Card
MC-0JFC61 MCX0JFC61 LD
- QLE2562, Low Profile

Dual Channel 8Gbps Fiber Channel Card
MC-0JFC62
- QLE2562, Full Height

Single Channel 16Gbps Fiber Channel Card
MC-0JFCB1 MCX0JFCB1 LD
- QLE2670, Low Profile

Single Channel 16Gbps Fiber Channel Card
MC-0JFCB2
- QLE2670, Full Height

Dual Channel 16Gbps Fiber Channel Card
MC-0JFCC1 MCX0JFCC1 LD
- QLE2672, Low Profile

Dual Channel 16Gbps Fiber Channel Card
MC-0JFCC2
- QLE2672, 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-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
* 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

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

Dual Channel FCoE card (10Gbps) LP
MC-0JCE61 MCX0JCE61 (LD)
Low Profile

Dual Channel FCoE card (10Gbps) FH
MC-0JCE62
Full Height

Dual Channel 10Gbps LAN Card (SFP+)
MC-0JCE71 MCX0JCE71 (LD)
SFP+ Module Multi Mode Fibre 10Gb FCoE OCe14102

Dual Channel FCoE card (40Gbps) LP
MC-0JCE91 MCX0JCE91 (LD)
Low Profile
CNA Ctrl 40Gb 1 Chan oCe14401
with low profile bracket for monting ex factory

Dual Channel FCoE card (40Gbps) FH
MC-0JCE92
Full Height
CNA Ctrl 40Gb 1 Chan oCe14401
with full height bracket for monting ex factory

Dual Channel 10Gbps LAN Card (SFP+)
MC-0JCEA1 MCX0JCEA1 (LD)

Limitation for Windows
- Max. 64 cores per physical partitoN, and
- Max. 2 pcs per physical partition, and
- Memory size 1TB

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

Single channel 100Gbps Infiniband HCA card
MC-0JHC51 MCX0JHC51 (LD)
Full High & comes with additional LP bracket

Dual channel 100Gbps Infiniband HCA card
MC-0JHC61 MCX0JHC61 (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 12Gbps SAS RAID Controll Card
MC-0JSR61 MCX0JSR61 (LD)
Low Profile PRAID EP420e

Dual channel 12Gbps SAS RAID Controll Card
MC-0JSR62
Full Height PRAID EP420e

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

*1 Part below is included
FBU TRAY

Flash Back-up Unit
MC-0JFB31 MCX0JFB31 (LD)
- Flash Backup Unit for RAID Controller with cache memory

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

RAID Advanced Software Options
MC-0KLA11 MCX0KLA11 (LD)
License Activation Key for CacheCade 2.0 and FastPath for PRAID EP420e

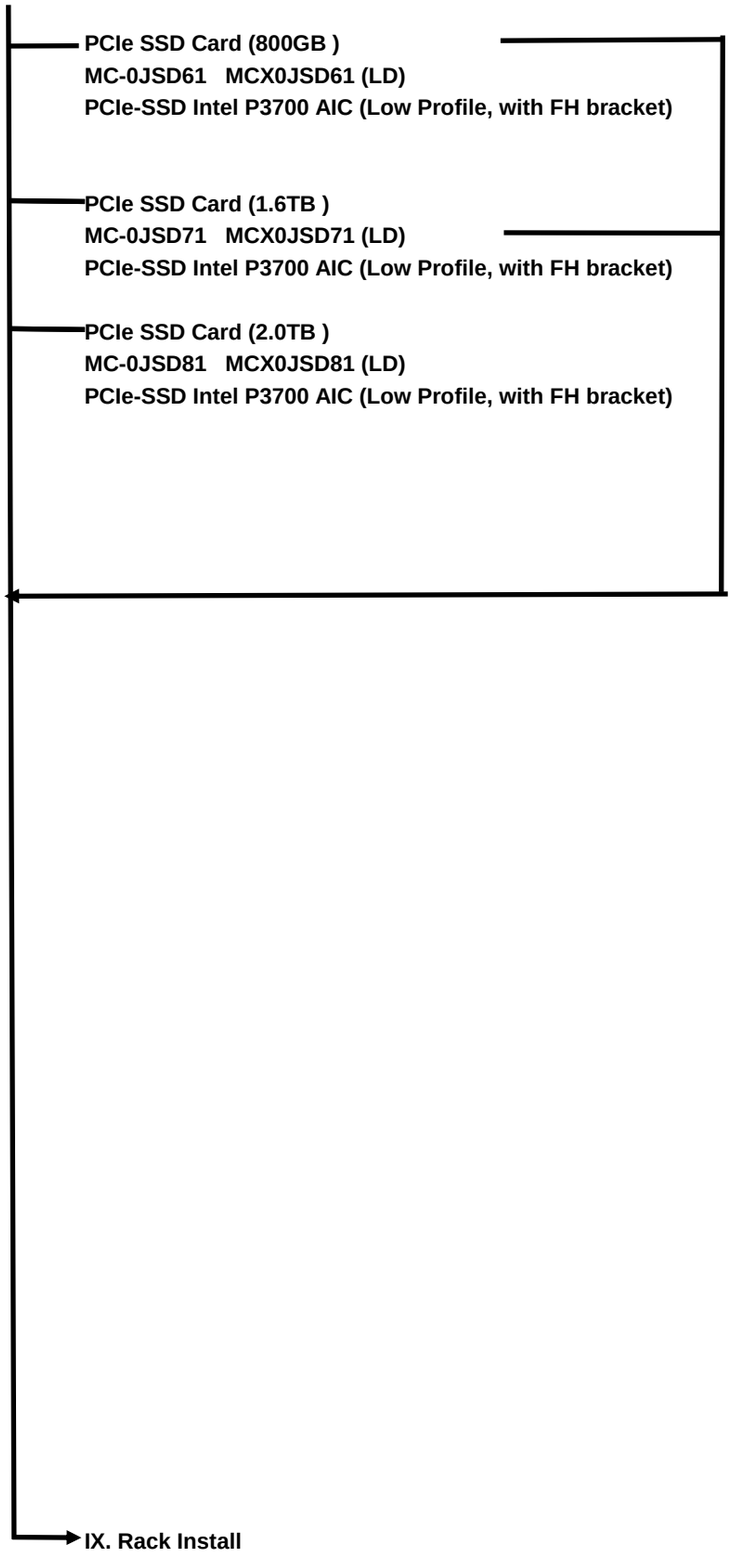
Dual Channel 12Gbps SAS Card
MC-0JSS31 MCX0JSS31 (LD) PSAS CP400e
Low Profile

Dual Channel 12Gbps SAS Card
MC-0JSS32 PSAS CP400e
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

PCI CARDS_4

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



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.

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Rack products for APAC, North America, and South America

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 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

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

*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.

Screw Unit

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

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
Mounting 10U in **asymmetrical** racks

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

S26361-F4530-E13
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

Product Name	Order Number	Limiitation for max. Qty. of IOU	Limitation for max. Qty. of PCI Box	Limitation for max. Qty. of Sytem Board	Limitation for max. Qty. of Disk Unit	Limitation for max. Qty. of Base unit and PCI BOXes
SAS RAID controller card	MC-0JSR51	Not mountable	Not mountable	No limitation	No limitation	2 per PPAR
SAS RAID controller card mount kit	MC-0HCK31	Not mountable	Not mountable	No limitation	Not mountable	
Flash Back-up Unit for Cougar4	MC-0JFB31	Not mountable	Not mountable	No limitation	No limitation	
RAID Advanced Software Options	MC-0KLA11	Not mountable	Not mountable	One piece per RAID card	One piece per RAID card	
Dual channel 12Gbps SAS Card	MC-0JSS31	No limitation	8	Not mountable	Not mountable	8
Dual channel 12Gbps SAS Card	MC-0JSS32	No limitation	8	Not mountable	Not mountable	8
Dual channel 12Gbps SAS RAID controller card	MC-0JSR61	No limitation	7	Not mountable	Not mountable	8 2 per PPAR
Dual channel 12Gbps SAS RAID controller card	MC-0JSR62	No limitation	7	Not mountable	Not mountable	8 2 per PPAR
FBU Mount Kit for Ext. SAS RAID Card	MC-0HCK21	1 (IOUL only)	Not mountable	Not mountable	Not mountable	4
RAID Advanced Software Options	MC-0KLA11	One piece per RAID card	One piece per RAID card	Not mountable	Not mountable	
Single Channel 8Gbps Fibre Channel Card	MC-0JFC31	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Single Channel 8Gbps Fibre Channel Card	MC-0JFC91	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Dual Channel 8Gbps Fibre Channel Card	MC-0JFC41	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Dual Channel 8Gbps Fibre Channel Card	MC-0JFCA1	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Single Channel 16Gbps Fibre Channel Card	MC-0JFC71	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Single Channel 16Gbps Fibre Channel Card	MC-0JFC72	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Dual Channel 16Gbps Fibre Channel Card	MC-0JFC81	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Dual Channel 16Gbps Fibre Channel Card	MC-0JFC82	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Single Channel 8Gbps Fibre Channel Card	MC-0JFC51	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Single Channel 8Gbps Fibre Channel Card	MC-0JFC52	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Dual Channel 8Gbps Fibre Channel Card	MC-0JFC61	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Dual Channel 8Gbps Fibre Channel Card	MC-0JFC62	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Single Channel 16Gbps Fibre Channel Card	MC-0JFCB1	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Single Channel 16Gbps Fibre Channel Card	MC-0JFCB2	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Dual Channel 16Gbps Fibre Channel Card	MC-0JFCC1	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Dual Channel 16Gbps Fibre Channel Card	MC-0JFCC2	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Dual Channel 1000BASE-T Card	MC-0JGEA1	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Dual Channel 1000BASE-T Card	MC-0JGEA2	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Quad Channel 1000BASE-T Card	MC-0JGEB1	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Quad Channel 1000BASE-T Card	MC-0JGEB2	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Dual Channel 10G BASE-T Card	MC-0JXE31	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Dual Channel 10G BASE-T Card	MC-0JXE32	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Dual Channel 10G BASE Card	MC-0JXE41	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Dual Channel 10G BASE Card	MC-0JXE42	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Dual Channel 10Gbps LAN Card (SFP+)	MC-0JXE51	two per LAN card	two per LAN card	Not mountable	Not mountable	
Dual Channel FCoE card (10Gbps)	MC-0JCE61	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Dual Channel FCoE card (10Gbps)	MC-0JCE62	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Dual Channel 10Gbps LAN Card (SFP+)	MC-0JCE71	Two pieces per FCoE 10G card	Two pieces per FCoE 10G card	Not mountable	Not mountable	
Single Channel FCoE card (40Gbps)	MC-0JCE91	No limitation	No limitation	Not mountable	Not mountable	16 16 per PPAR
Single Channel FCoE card (40Gbps)	MC-0JCE92	No limitation	No limitation	Not mountable	Not mountable	16 16 per PPAR
SFP+ module for 40Gbps	MC-0JCEA1	Two pieces per FCoE 40G card	Two pieces per FCoE 40G card	Not mountable	Not mountable	
Single channel 56Gbps Infiniband HCA card	MC-0JHC31	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Dual channel 56Gbps Infiniband HCA card	MC-0JHC41	No limitation	No limitation	Not mountable	Not mountable	24 16 per PPAR
Single channel 100Gbps Infiniband HCA card	MC-0JHC51	No limitation	8	Not mountable	Not mountable	8 8 per PPAR
Dual channel 100Gbps Infiniband HCA card	MC-0JHC61	No limitation	8	Not mountable	Not mountable	8 8 per PPAR
PCIe SSD Card (800GB)	MC-0JSD61	No limitation	No limitation	Not mountable	Not mountable	48 12 per PPAR
PCIe SSD Card (1.2TB)	MC-0JSD71	No limitation	No limitation	Not mountable	Not mountable	48 12 per PPAR
PCIe SSD Card (2.0TB)	MC-0JSD81	No limitation	No limitation	Not mountable	Not mountable	48 12 per PPAR
PCI BoX connection card	MC-0JPC11	1(IOUF) 2(IOUL)	Not mountable	Not mountable	Not mountable	8

OS x Order number matrix

System configurator and order-information guide

PRIMEQUEST 2400E2 Status 2017-03-01

A : Available

NA : Not Available

P: Fujitsu plans to make this product available

Product name	Order number				OS					
		PRIMEQUEST 2400E2	PRIMEQUEST 2800E2	PRIMEQUEST 2800B2	Win2012 R2	Win2012	RHEL	SLES 11	VMware vSphere 5 & 6	Oracle Linux¥ Oracle VM
System board	MC-3HSB71	NA	A	NA	A	A	A	A	A	A
System board	MC-2HSB71	A	NA	NA	A	A	A	A	A	A
System board	MC-3HSB71B	NA	NA	A	A	A	A	A	A	A
System Board w/ TPM	MC-3HSBV1	NA	A	NA	A	A	A	A	A	A
System Board w/ TPM	MC-2HSBV1	A	NA	NA	A	A	A	A	A	A
System Board w/ TPM	MC-3HSBV1B	NA	NA	A	A	A	A	A	A	A
Xeon E7-8893v3 (4core/3.2GHz/45MB)	MC-3BDD11	NA	A	NA	A	A	A	A	A	A
Xeon E7-8893v3 (4core/3.2GHz/45MB)	MC-2BDD11	A	NA	NA	A	A	A	A	A	A
Xeon E7-8893v3 (4core/3.2GHz/45MB)	MC-3BDD11B	NA	NA	A	A	A	A	A	A	A
Xeon E7-8891v3 (10core/2.8GHz/45MB)	MC-3BDG11	NA	A	NA	A	A	A	A	A	A
Xeon E7-8891v3 (10core/2.8GHz/45MB)	MC-2BDG11	A	NA	NA	A	A	A	A	A	A
Xeon E7-8891v3 (10core/2.8GHz/45MB)	MC-3BDG11B	NA	NA	A	A	A	A	A	A	A
Xeon E7-8890v3 (18core/2.5GHz/45MB)	MC-3BDA11	NA	A	NA	A	A	A	A	A	A
Xeon E7-8890v3 (18core/2.5GHz/45MB)	MC-2BDA11	A	NA	NA	A	A	A	A	A	A
Xeon E7-8890v3 (18core/2.5GHz/45MB)	MC-3BDA11B	NA	NA	A	A	A	A	A	A	A
Xeon E7-8880v3 (18core/2.3GHz/45MB)	MC-3BDE11	NA	A	NA	A	A	A	A	A	A
Xeon E7-8880v3 (18core/2.3GHz/45MB)	MC-2BDE11	A	NA	NA	A	A	A	A	A	A
Xeon E7-8880v3 (18core/2.3GHz/45MB)	MC-3BDE11B	NA	NA	A	A	A	A	A	A	A
Xeon E7-8870v3 (18core/2.1GHz/45MB)	MC-3BDF11	NA	A	NA	A	A	A	A	A	A
Xeon E7-8870v3 (18core/2.1GHz/45MB)	MC-2BDF11	A	NA	NA	A	A	A	A	A	A
Xeon E7-8870v3 (18core/2.1GHz/45MB)	MC-3BDF11B	NA	NA	A	A	A	A	A	A	A
Xeon E7-8860v3 (16core/2.2GHz/40MB)	MC-3BDB11	NA	A	NA	A	A	A	A	A	A
Xeon E7-8860v3 (16core/2.2GHz/40MB)	MC-2BDB11	A	NA	NA	A	A	A	A	A	A
Xeon E7-8860v3 (16core/2.2GHz/40MB)	MC-3BDB11B	NA	NA	A	A	A	A	A	A	A
Xeon E7-8867v3 (16core/2.5GHz/45MB)	MC-3BDC11	NA	A	NA	A	A	A	A	A	A
Xeon E7-8867v3 (16core/2.5GHz/45MB)	MC-2BDC11	A	NA	NA	A	A	A	A	A	A
Xeon E7-8867v3 (16core/2.5GHz/45MB)	MC-3BDC11B	NA	NA	A	A	A	A	A	A	A
Memory Extension Board	MC-3HMB21	NA	A	NA	A	A	A	A	A	A
Memory Extension Board	MC-2HMB21	A	NA	NA	A	A	A	A	A	A
Memory Extension Board	MC-3HMB21B	NA	NA	A	A	A	A	A	A	A
16GB Memory (8GB DDR4 DIMM x2)	MC-3CD511	NA	A	NA	A	A	A	A	A	A
16GB Memory (8GB DDR4 DIMM x2)	MC-2CD511	A	NA	NA	A	A	A	A	A	A
16GB Memory (8GB DDR4 DIMM x2)	MC-3CD511B	NA	NA	A	A	A	A	A	A	A
32GB Memory (16GB DDR4 DIMM x2)	MC-3CD611	NA	A	NA	A	A	A	A	A	A
32GB Memory (16GB DDR4 DIMM x2)	MC-2CD611	A	NA	NA	A	A	A	A	A	A
32GB Memory (16GB DDR4 DIMM x2)	MC-3CD611B	NA	NA	A	A	A	A	A	A	A
64GB Memory (32GB DDR4 DIMM x2)	MC-3CD721	NA	A	NA	A	A	A	A	A	A
64GB Memory (32GB DDR4 DIMM x2)	MC-2CD721	A	NA	NA	A	A	A	A	A	A
64GB Memory (32GB DDR4 DIMM x2)	MC-3CD721B	NA	NA	A	A	A	A	A	A	A
64GB Memory (32GB DDR4 DIMM x2)	MC-3CD711	NA	A	NA	A	A	A	A	A	A
64GB Memory (32GB DDR4 DIMM x2)	MC-2CD711	A	NA	NA	A	A	A	A	A	A
64GB Memory (32GB DDR4 DIMM x2)	MC-3CD711B	NA	NA	A	A	A	A	A	A	A
128GB Memory (64GB DDR4 DIMM x2)	MC-3CD811	NA	A	NA	A	A	A	A	A	A
128GB Memory (64GB DDR4 DIMM x2)	MC-2CD811	A	NA	NA	A	A	A	A	A	A
128GB Memory (64GB DDR4 DIMM x2)	MC-3CD811B	NA	NA	A	A	A	A	A	A	A
256GB Memory (128GB DDR4 DIMM x2)	MC-3CD911	NA	A	NA	A	A	A	A	A	A
256GB Memory (128GB DDR4 DIMM x2)	MC-2CD911	A	NA	NA	A	A	A	A	A	A
256GB Memory (128GB DDR4 DIMM x2)	MC-3CD911B	NA	NA	A	A	A	A	A	A	A

300GB Hard Disk Drive (10,000rpm)	MC-5DS741	A	A	A	A	A	A	A	A	A
300GB Hard Disk Drive (15,000rpm)	MC-5DS751	A	A	A	A	A	A	A	A	A
600GB Hard Disk Drive (15,000rpm)	MC-5DS931	A	A	A	A	A	A	A	A	A
600GB Hard Disk Drive (10,000rpm)	MC-5DS921	A	A	A	A	A	A	A	A	A
600GB Hard Disk Drive (10,000rpm)	MC-5DS941	A	A	A	A	A	A	A	A	A
900GB Hard Disk Drive (10,000rpm)	MC-5DSA21	A	A	A	A	A	A	A	A	A
900GB Hard Disk Drive (10,000rpm)	MC-5DSA31	A	A	A	A	A	A	A	A	A
1.2TB Hard Disk Drive (10,000rpm)	MC-5DSB11	A	A	A	A	A	A	A	A	A
1.2TB Hard Disk Drive (10,000rpm)	MC-5DSB21	A	A	A	A	A	A	A	A	A
1.8TB Hard Disk Drive (10,000rpm)	MC-5DSC11	A	A	A	A	A	A	A	A	A
200GB SAS SSD	MC-5DK731	A	A	A	A	A	A	A	A	A
400GB SAS SSD	MC-5DK841	A	A	A	A	A	A	A	A	A
800GB SAS SSD	MC-5DK911	A	A	A	A	A	A	A	A	A
1.6TB SAS SSD	MC-5DKA11	A	A	A	A	A	A	A	A	A
Disk Unit	MC-5HDU21	A	A	NA	A	A	A	A	A	A
Disk Unit	MC-5HDU21B	NA	NA	A	A	A	A	A	A	A
I/O Unit (1GbE)	MC-3HUX31	NA	A	NA	A	A	A	A	A	A
I/O Unit (1GbE)	MC-2HUX31	A	NA	NA	A	A	A	A	A	A
I/O Unit (1GbE)	MC-3HUX31B	NA	NA	A	A	A	A	A	A	A
I/O Unit (10GbE)	MC-3HUX41	NA	A	NA	A	A	A	A	A	A
I/O Unit (10GbE)	MC-2HUX41	A	NA	NA	A	A	A	A	A	A
I/O Unit (10GbE)	MC-3HUX41B	NA	NA	A	A	A	A	A	A	A
SAS RAID controller card	MC-0JSR51	A	A	A	P	P	A	A	A	A
SAS RAID controller card mount kit	MC-0HCK31	A	A	NA	P	P	A	A	A	A
Flash Back-up Unit for Cougar4	MC-0JFB31	A	A	A	P	P	A	A	A	A
RAID Advanced Software Options	MC-0KLA11	A	A	A	P	P	A	A	A	A
Dual channel 12Gbps SAS Card	MC-0JSS31	A	A	A	A	A	A	A	A	A
Dual channel 12Gbps SAS Card	MC-0JSS32	A	A	A	A	A	A	A	A	A
Dual channel 12Gbps SAS RAID controller card	MC-0JSR61	A	A	A	P	P	A	A	A	A
Dual channel 12Gbps SAS RAID controller card	MC-0JSR62	A	A	A	P	P	A	A	A	A
FBU Mount Kit for Ext. SAS RAID Card	MC-0HCK21	A	A	A	P	P	A	A	A	A
RAID Advanced Software Options	MC-0KLA11	A	A	A	P	P	A	A	A	A
Single Channel 8Gbps Fibre Channel Card	MC-0JFC31	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
Dual Channel 8Gbps Fibre Channel Card	MC-0JFC41	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
Single Channel 16Gbps Fibre Channel Card	MC-0JFC71	A	A	A	A	A	A	A	A	A
Single Channel 16Gbps Fibre Channel Card	MC-0JFC72	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
Dual Channel 16Gbps Fibre Channel Card	MC-0JFC82	A	A	A	A	A	A	A	A	A
Single Channel 8Gbps Fibre Channel Card	MC-0JFC51	A	A	A	A	A	A	A	A	A
Single Channel 8Gbps Fibre Channel Card	MC-0JFC52	A	A	A	A	A	A	A	A	A
Dual Channel 8Gbps Fibre Channel Card	MC-0JFC61	A	A	A	A	A	A	A	A	A
Dual Channel 8Gbps Fibre Channel Card	MC-0JFC62	A	A	A	A	A	A	A	A	A
Single Channel 16Gbps Fibre Channel Card	MC-0JFCB1	A	A	A	A	A	A	A	A	A
Single Channel 16Gbps Fibre Channel Card	MC-0JFCB2	A	A	A	A	A	A	A	A	A
Dual Channel 16Gbps Fibre Channel Card	MC-0JFCC1	A	A	A	A	A	A	A	A	A
Dual Channel 16Gbps Fibre Channel Card	MC-0JFCC2	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
Dual Channel 1000BASE-T Card	MC-0JGEA2	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
Quad Channel 1000BASE-T Card	MC-0JGEB2	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
Dual Channel 10G BASE-T Card	MC-0JXE32	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
Dual Channel 10G BASE Card	MC-0JXE42	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
Dual Channel FCoE card (10Gbps)	MC-0JCE61	A	A	A	A	A	A	A	A	A
Dual Channel FCoE card (10Gbps)	MC-0JCE62	A	A	A	A	A	A	A	A	A

Dual Channel 10Gbps LAN Card (SFP+)	MC-0JCE71	A	A	A	A	A	A	A	A	A

Single channel 56Gbps Infiniband HCA card	MC-0JHC31	A	A	A	**A*1**	**A*1**	A	A	A	NA
Dual channel 56Gbps Infiniband HCA card	MC-0JHC41	A	A	A	**A*1**	**A*1**	A	A	A	NA
Single channel 100Gbps Infiniband HCA card	MC-0JHC51	A	A	A	**A*1**	**A*1**	A	A	A	NA
Dual channel 100Gbps Infiniband HCA card	MC-0JHC61	A	A	A	**A*1**	**A*1**	A	A	A	NA
PCIe SSD Card (800GB)	MC-0JSD61	A	A	A	A	A	A	A	NA	NA
PCIe SSD Card (1.6TB)	MC-0JSD71	A	A	A	A	A	A	A	NA	NA
PCIe SSD Card (2TB)	MC-0JSD81	A	A	A	A	A	A	A	NA	NA
PCI BoX connection card	MC-0JPC11	A	A	NA	A	A	A	A	A	A
Management Board	MC-5HMM21	A	A	NA	A	A	A	A	A	A
200V High efficiency PSU	MC-5HPS41	A	A	A	A	A	A	A	A	A
100V/200V normal PSU	MC-5HPS61	A	A	A	A	A	A	A	A	A
FAN Unit	MC-5HFA41	A	A	A	A	A	A	A	A	A
IEC AC(100V/200V) Cable (3m)	MC-0HCA83	A	A	A	A	A	A	A	A	A
IEC AC(100V/200V) Cable (1m)	MC-0HCA81	A	A	A	A	A	A	A	A	A
PCI BoX	MC-0HPB31	A	A	NA	A	A	A	A	A	A
PSU for PCI BoX	MC-0HPS41	A	A	NA	A	A	A	A	A	A
IEC AC(100V/200V) Cable (1m) for PCI BoX	MC-0HCAB1	A	A	NA	A	A	A	A	A	A
IEC AC(100V/200V) Cable (3m) for PCI BoX	MC-0HCAB3	A	A	NA	A	A	A	A	A	A
Memory Mode Setting (Normal)	MC-0PMM1	A	A	A	A	A	A	A	A	A
Memory Mode Setting (Mirror)	MC-0PMM3	A	A	A	A	A	A	A	A	A
Memory Mode Setting (Spare)	MC-0PMM4	A	A	A	A	A	A	A	A	A
Dynamic Reconfiguration (Enable)	MC-0PDP2	A	A	NA	A	A	A	A	A	A
PCI Address Bus Mode PCI Address Mode (Bus Mode)	MC-0PPA2	A	A	NA	A	A	A	A	A	A
outlet (200V, IEC60320-C19,1U) (for FBR only)	MC-R1CBA1	A	A	A	A	A	A	A	A	A
outlet for PCI BoX (200V-IEC-0U) (for FBR only)	MC-R1CBB1	A	A	A	A	A	A	A	A	A
outlet for FBR(200V, IEC60320-C19,0U) (for FBR only)	MC-R1CBC1	A	A	A	A	A	A	A	A	A
outlet for PCI BoX (200V-IEC-1U) (for FBR only)	MC-R1CBD1	A	A	A	A	A	A	A	A	A

***1 Infiniband cards in Windows is usable only under conditios**

- the number of CPU core is 64 or less, and

- The number of Infiniband cards is 2 or less, and

- memory size is 1TB or less

below.

Limitation
Only 8 ports(4 cards) of dual ports FCoE cards are supported for legacy boot.
iSCSI boot with RHEL 6 or SLES 11 is NOT available.
iSCSI SW-initiator booting is NOT supported
Not allowable configuration: One partition with 2 System Boards with one CPU per System Board
Infiniband card with Windows OS is allowed under conditions. - the number of CPU core is 64 or less, and - the number of Infiniband cards is 2 or less, and - memory size is 1TB or less
It is NOT allowed to configure Multi path LAN configuration between 1Gbs LAN IOU and 1Gbps LAN IOU.
Only legacy BIOS mode is supported for ESXi 5.x.
Do not execute "shutdown" during hot-removing a SB.
Unable to collect a dump file by XEN kernel environment, when OS panic occurs.
Up to 2 RAID cards are allowed in a partition with VMware OS.
To use Oracle Linux 6.6, follow the steps below. 1. Change “UEFI mode” into “Legacy mode”. Or 2. Change PCI Address Mode from “PCI Segment Mode” to “PCI Bus Mode”.
If a Extended Partition is created to Physical Partition forming of two System Boards, allowable combination of the Physical Partitions are: pair of SB0 and SB1, and pair of SB2 anf SB3
PCI Hot Plug is executable PCI cards in PCI Box allotted to Extended Partition. Please note the limitation that PCI cards specified below are NOT executable the PCI Hot Plug even if they are allotted to PCI Box. - RAID controll cards - PCIe SSD cards - Infiniband card

Precautions	Workaround
With IPv6, iSCSI Install of Windows 2012 R2(UEFI) fails.	Please don’t use the following Hub, when iSCSI installation with IPv6. SR-S324, SR\S748, SR-S348, SR-X340HUB
Unable to construct a Logical drive by MMB CLI command, when installing OS in the initial mashine state.	Use SVIM or UEFI RAID Utility to construct a Logical drive in an OS install disk.
The capacity of HDD is indicated by the unit of 1TB on EP420e (EP420i) HII Utility, even if the 1.2TB HDD and /or 1.8TB HDD was installed.	Select the disk on Drive Management menu and check the disk size on the menu.
Unable to add a PCIe card to the slot in a PCI_Box, if the command of "dr rm pcieXX" is executed and the partition is rebooted as PCI cards are not removed.	Power off the partition and replace the PCIe card with a new one in this case.
A partition populated E7-8860/1CPU can not be booted.	E7-8860v3(1CPU/1SB/1Partition) => Set PCI Address Mode to "PCI Bus Mode".
Virtural Media (RemoteStorage) for multiple partitions can not be used from a remote PC at the same time..	Please operate the following procedure. 1. Start Video Redirection for a partition. 2. Connect an iso image with Virtual Media on the Video Redirection. 3. Power on the partition on MMB WebUI. 4. Check that OS is booted. 5. Execute above procedure for other partition.
Video Redirection activation is failed when Video Redirections of multi partitions are activated at one time.	Video Redirection from a remote PC should be done to one partition only.
Uncorrectable errors occur at multiple RAID cards during SVIM installation.	The number of LAN ports should be limited to 96 and fewer for a partition during OS installation by SVIM.
OS restart is required, when run OCM on the PC and execute PHP of FC card .	Close OCM monitor before PHP on Windows OS.
Could not apply KB2919355 to WS12R2 on 4SB configuration.	Set the following entry to Registry Subkey „HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\services\TrustedInstaller“. Name: BlockTimeIncrement Data type: REG_DWORD Value: 0x2a30
If system has more than 41 LAN ports, kdump fails to dump on external storage device.	Add unrelated controllers other than storage controllers for kdump to blacklist option of kdump.conf to avoid the driver loading of unnecessary drivers. For example, add a following line in file /etc/kdump.conf. “blacklist igb ixgbe”
An error may occur, when "sadumpbackup" command or "makedumpfile" command is executed. All memory region is not involved in the dump file for backup and vmcorefile, even when no error occurs.	Use the following revision for dump support tool. FJSVdunptools-RHEL6-2.2.1-0
Hot-adding SB operation completes successfully. But, the number of CPU cores which are available to OS is one fewer than actual.	Set hyper-threading parameter is set to "Off" to support hot-adding SB function with E7-8860v3 CPUs.
Hot-adding SB function is supported in the following configuration, when the SKU of CPU other than E7-8860v3 is used in the system. - The existing partition consist of one SB and a new SB is going to be added to slot#1.	This limitation will be released later.

Hot-adding SB function is supported in the following configuration, when the SKU of CPU other than E7-8860v3 is used in the system.	This limitation will be released later.
OS installation by SVIM may failed on the system which contains a PCIe SSD(Intel P3700).	Solution is planned in SVIM. Workaround: Install OS after removing PCIe SSD(Intel P3700). Mount a PCIe SSD(Intel P3700) again after completing OS installation.
The driver for PCIe SSD(Intel P3700) is not usable, when Windows2012/2012R2 is installed by SVIM.	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.	Solution is planned in SVIM. Workaround: Install the driver manually after OS installation.
The follwing message is displayed during hot-adding a SB. ---------- SLUB: Unable to allocate memory on node 0 (gfp=0xd0) cache: task_struct, object size: 2912, buffer size: 2912, default order: 3, min order: 0 node 2: slabs: 316, objs: 3476, free: 92 workqueue: allocation failed while updating NUMA affinity of "scsi_tmf_1"	Solution is planned in kernel update. Workaround: Specify "workqueue.disable_numa" in kernel option of OS.
"wicked.service" of SLES 12 isn't started normally on OS boot. Network may not be available after booting SLES 12.	Workaround: Execute "systemctl restart wicked. service" until network is available.
Unable to start the sadump service, if Secure Boot is enabled.	Solution is planned in driver (sadump.ko) Workaround: Start sadump service manually on MMB WebUI..
ESXi6.0 server can not be monitored from SVOM.	Solution is planned in BMC firmware. Workaround: Check a hardware error on MMB WebUI.
ESXi 6.0 crashes with PSOD during system shutdown/restart after running heavy load. This issue occurs on 4-way and 8-way system.	olution is planned in kernel update. Workaround: Apply the kernel patch from VMware. GA version of this patch is not available yet. The confirmation has been done with RTM version about the issue. Please download GA version (ESXi600-201507001) from the following site. http://www.vmware.com/
“Call Trace” occurs when heavy load is executed on RHEL 7.1 and SLES 12 as guest OS.	Solution is planned in kernel update. Workaround: Apply the kernel patch from VMware. GA version of this patch is not available yet. The confirmation has been done with RTM version about the issue. Please download GA version (ESXi600-201507001) from the following site. http://www.vmware.com/
When you install RHEL7.0/7.1 using RHEL installer not ServerView Installation Manager(SVIM), the installation may fail after the screen changes on menus such as package choice or network initialization.	Solution is planned in RHEL 7.2 Workaround: None. Please install it again. When you install it using SVIM, this problem does not occur.
BsoD 0x7E may happen after OS start up phase.	Microsoft IPMI driver issue. Refer to: http://support.microsoft.com/kb/2919355/en-us http://support.microsoft.com/kb/2931129/en-us
The follwing message is displayed during hot-adding a SB. ---------- SLUB: Unable to allocate memory on node 0 (gfp=0xd0) cache: task_struct, object size: 2912, buffer size: 2912, default order: 3, min order: 0 node 2: slabs: 316, objs: 3476, free: 92 workqueue: allocation failed while updating NUMA affinity of "scsi_tmf_1"	Solution is planned in kernel update. Workaround: Specify "workqueue.disable_numa" in kernel option of OS.
1CPU/SB configuration] CPU Fatal Internal Error occurs during BIOS POST or booting OS, if a partition is configured with two SBs which contains 1CPU each. (PQ2400E2) Restriction: 2CPUs-2SBs/1Partition configuration is not allowed.	Solved with BMC 1.17 or later.

Setting BIOS and booting OS in legacy mode cannot be executed by using Emulex FC card.	Workaround: Execute setting BIOS and booting OS in UEFI mode by using Emulex FC card.

Change Report

Date	Order number	Changes
12.06.2015	Memory mode	added
12.06.2015		Sheet : OS x Order number matrix, PCIe SSD(800GB,1.6/2.0TB) is not available to VMware.
30.07.2015		Limitation page is modified
30.07.2015		Precaution page is modified
30.11.2015	Memory	Limitation for full population for 128GB is released
30.11.2015	Internal RAID Controller for SB	Windows OS has become available
30.11.2015	IOU	Windows OS has become available
30.11.2015	DISK Unit	Windows OS has become available
30.11.2015	PCI Box	MC-0HPB31 is orderable as loose delivery
30.11.2015	PCI card 1	LAN cards are usable with Windows
30.11.2015	PCI card 3	RAID controller cards are usable with Windows
30.11.2015	OS x order number matrix	Oracle Linux is added
30.11.2015	Limitation	Modified
30.11.2015	Precautions	Modified
07.12.2015	Max. Qty. of PCIe card	Max. count of PCIe SSD per Physical partition to 12 from 48
07.12.2015	OS x order number matrix	LAN cards are usable with Windows