FUJITSU

PRIMEQUEST 2400E3

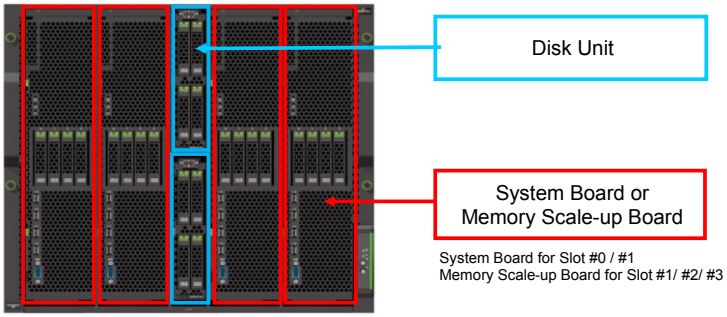
System Configuration Guide

August 2017

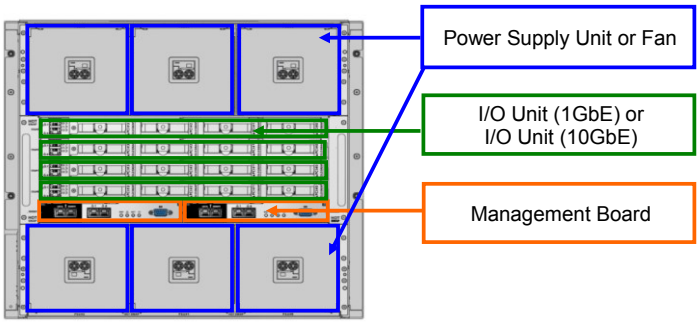
Contents

1. Overview

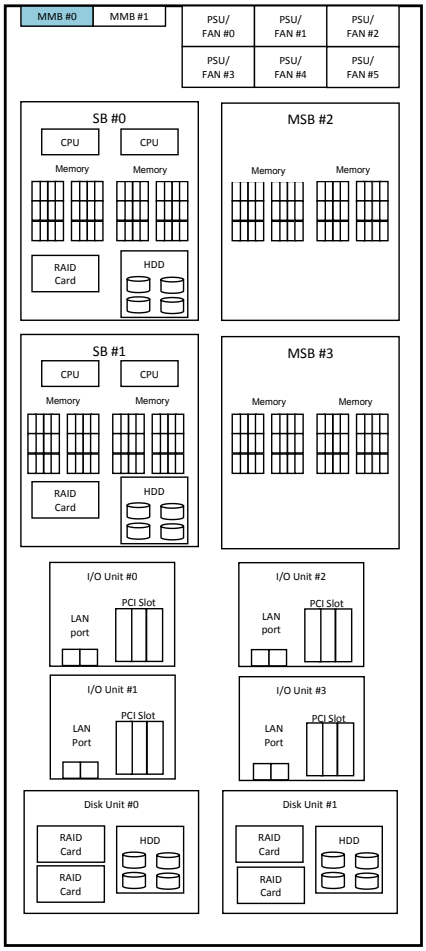
Front side



Rear side



1. Overview



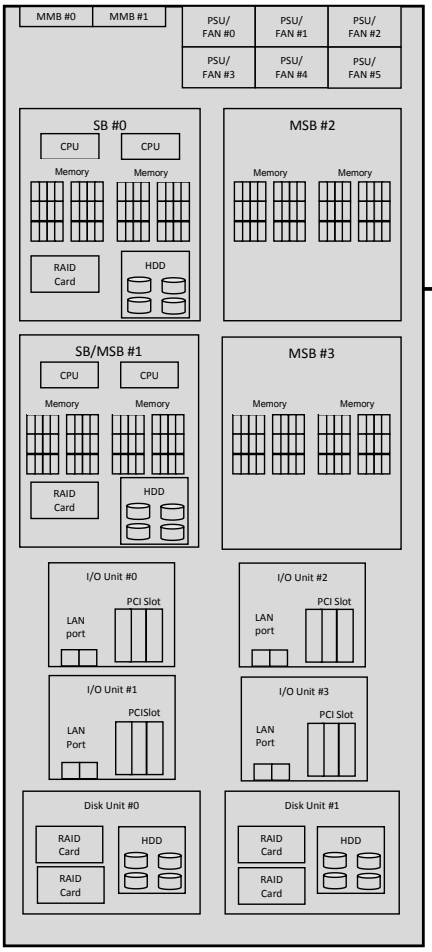
Part Number Legend:

Part Number:
MC-**** is a Build-to-Order (BTO) option** to be assembled with a Base Unit at Fujitsu factory.

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

Model	PRIMEQUEST 2400E3
CPU	E7-8800 v4 series
Max CPU / Cores	4 / 96
Max Memory Slots	192
Max Memory Capacity	12TB (without MSB) 24TB (with MSB)
Max System Board	2
Reserved SB	Yes
Max Physical Partition	2
Dynamic Reconfiguration	Yes
SAS Drive Slots (Internal / External)	16 / 576
Max SAS Drive Capacity (Internal / External) (with 1.8TB HDD per slot)	28.8TB / 1,036TB
Max I/O Units	4
Max 1GbE ports on 4 x I/O Units (Low Profile) Max 10GbE ports on 4 x I/O Units (Full Height)	8
Max PCI-Box	4
PCIe Slots (Internal / Internal + External)	16 / 56
Input Voltage (AC)	100-120V / 200-240V
Highest Operating Temperature	35 °C

2. Base Unit



The following options are NOT included in the Base Unit.
- System Board, CPU, Memory, I/O Unit, PSU and Power Cord

The following options are included in the Base Unit.
- 1x Management Board (MMB)
- 1x Rack Mount Kit

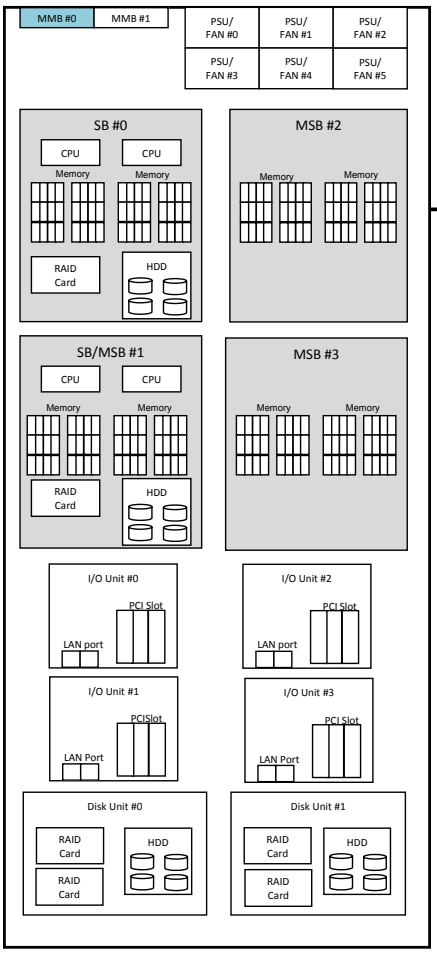
PRIMEQUEST 2400E3 Base Unit

MCH2AC111

- Rack mount type
- Min. 1 x System Board needs to be mounted. Max. 2 x System Boards can be mounted.
- Max. 3 x Memory Scale-up Boards can be mounted.
- Min. 1 x I/O Unit needs to be mounted. Max. 4 x I/O Units can be mounted.
- Max. 4 x PCI Boxes can be connected.
- 1 x MMB is included. An additional MMB can be mounted for redundancy.
- 4 x LAN ports per MMB
- Min. 2 x PSUs need to be mounted.
- Fan units need to be mounted in empty space of PSU/Fan bay where PSU is not mounted.
  6 x PSUs and/or Fans need to be mounted in total.
- Power cords need to be ordered. The quantity is equal to the quantity of PSU.
- Rack space : 10U

→ **System Board**

3. System Board



System Board for 2400E3

MC-2HSB91 / MCX2HSB91 (LD)

- Min. 1 x SB needs to be mounted. Max. 2 x SB can be mounted per Base Unit.
- The System Board does not include a security chip called TPM.
- Neither CPU nor Memory is included. CPU and Memory need to be ordered separately.
  Min. 1 x CPU and 1 x Memory need to be mounted on each SB.
- If 1 x CPU is mounted on a SB, min. 1 x Memory (2 x DIMMs) need to be mounted.
  Max. 12 x Memory (24 x DIMMs) per CPU can be mounted.
- If 2 x CPUs are mounted on a SB, min. 2 x Memory (4 x DIMMs) need to be mounted.
  Max. 24 x Memory (48 x DIMMs) can be mounted.
- 4 x disk drives (HDD or SSD) can be mounted per SAS RAID Controller.

TPM module V1.2

MC-6HTP11 / MCX6HTP11(LD)

- Available except for China

TPM module V2.0

MC-6HTP21 / MCX6HTP21(LD)

- Available except for China

CPU

Available Combination of CPU and Memory

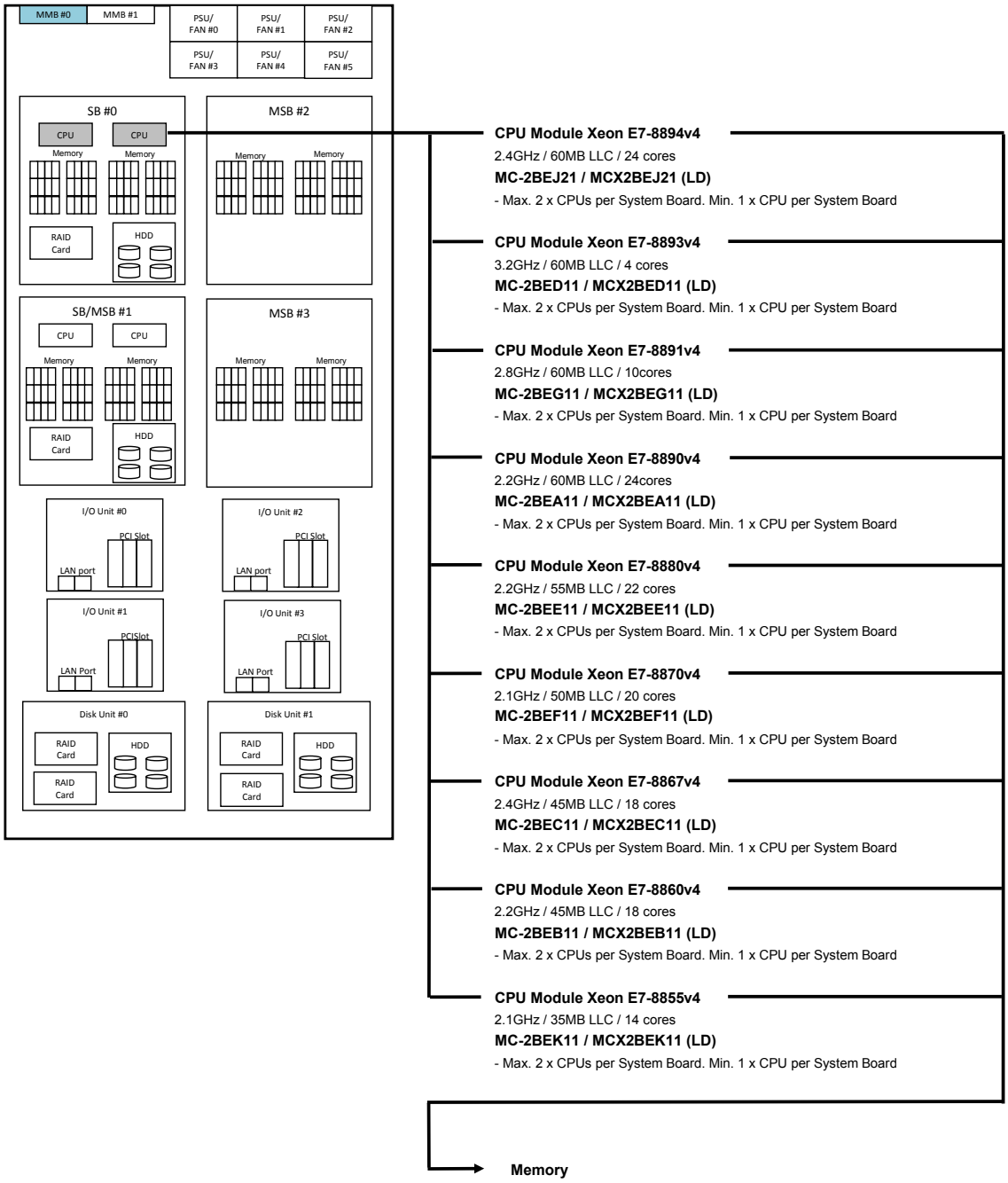
		Number of CPU	
		1	2
Memory in units of 2 DIMMs	1	A	A
	2	B	A
	3	B	B
	4 to 11	B	B
	12	B	B
	13	C	B
	14 to 23	C	B
	24	C	B

A : The combination is available. The quantity of memory is the minimum quantity.
B : The combination is available.
C : The combination is NOT available.

* If a partition includes multiple SBs, 2 x CPUs need to be mounted on each of the SB in the partition.

The following functions are NOT available for the System Board with TPM.
- Reserved SB
- Dynamic Reconfiguration

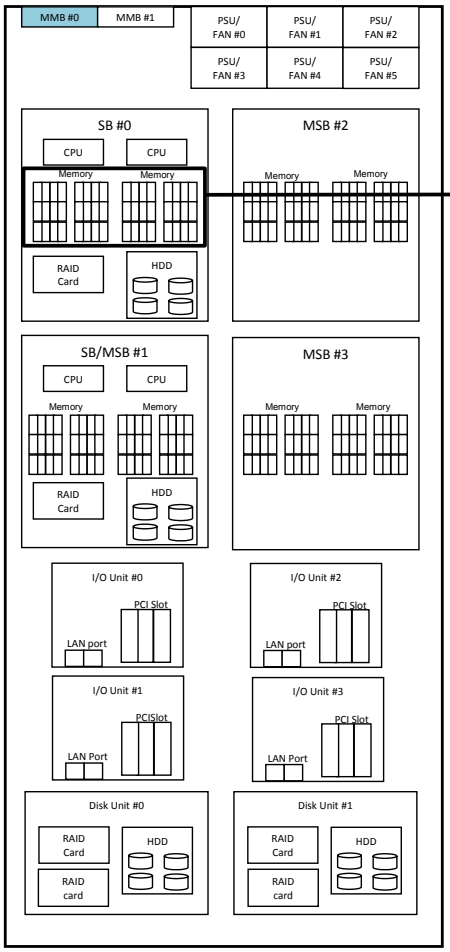
4. CPU



CPU mounting condition:
- The same kind of CPUs need to be mounted in a partition.
- The other kind of CPUs can be selected if it is mounted in the other partition.
- In case plural System Boards configure a single partition, the number of CPUs on each System Board needs to be the same.

# of SB / MSB per partition		# of CPU per partition	Remark
1SB	-	1	SB with 1 x CPU is allowed to configure a partition with a single SB.
		2	
2SB	-	2	SB with 1 x CPU is allowed to configure a partition with a single SB.
		4	
1SB	1 MSB	2	
	2 MSB	2	
	3 MSB	2	
2SB	1 MSB	4	
	2 MSB	4	

5. Memory



Memory Expansion Board

MC-2HMB31 / MCX2HMB31 (LD)
- 1 x Memory Expansion Board can be mounted per CPU.
- 1 x Memory Expansion Board has 12 DIMM slots.

* Conditions to mount Memory Expansion Board depend on the number of DIMM to be mounted and a Memory Mode. For details, please refer to "Memory Mounting".

At least one option needs to be mounted.

16GB memory (8GB DDR4 DIMM x 2)

MC-2CD521 / MCX2CD521 (LD)
- Min. 1 x Memory (2 x DIMMs) needs to be mounted per CPU. Max. 12 x Memory (24 x DIMMs) can be mounted per CPU.
- 2 x 8GB 2400MHz RDIMMs

32GB memory (16GB DDR4 DIMM x 2) Single Rank x4

MC-2CD621 / MCX2CD621 (LD)
- Min. 1 x Memory (2 x DIMMs) needs to be mounted per CPU. Max. 12 x Memory (24 x DIMMs) can be mounted per CPU.
- 2 x 16GB 2400MHz RDIMMs

64GB memory (32GB DDR4 DIMM x 2)

MC-2CD731 / MCX2CD731 (LD)
- Min 1 x Memory (2 x DIMMs) needs to be mounted per CPU. Max 12 x Memory (24 x DIMMs) can be mounted per CPU.
- 2 x 32GB 2400MHz RDIMM

128GB memory (64GB DDR4 DIMM x 2)

MC-2CD811 / MCX2CD811 (LD)
- Min. 1 x Memory (2 x DIMMs) needs to be mounted per CPU. Max. 12 x Memory (24 x DIMMs) can be mounted per CPU.
- 2 x 64GB 2133MHz LRDIMMs

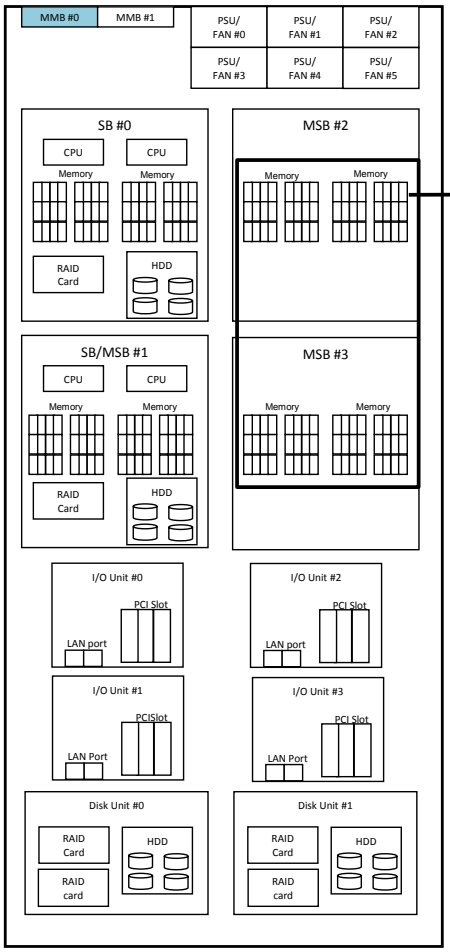
256GB memory (128GB DDR4 LRDIMM x 2)

MC-2CD911 / MCX2CD911 (LD)
- Min. 1 x Memory (2 x DIMMs) needs to be mounted per CPU. Max. 12 x Memory (24 x DIMMs) can be mounted per CPU.
- 2 x 128GB 2400MHz LRDIMMs

* long lead time option

Memory Mode

5. Memory (Memory Scale-up Board)



Memory Scale-up Board

MC-2HMSA1 / MCX2HMSA1 (LD)
- Max. 3 x Memory Scale-up Boards can be mounted per Base Unit.
- Min. 4 x Memory (8 x DIMMs) need to be mounted per Memory Scale-up Board.
  Max. 24 x Memory (48 x DIMMs) can be mounted per Memory Scale-up Board.

At least one option needs to be mounted.

16GB memory (8GB DDR4 DIMM x 2)

MC-2CD521 / MCX2CD521 (LD)
Max. 24 x Memory (48 x DIMMs) can be mounted per Memory Scale-up Board.
- 2 x 8GB 2400MHz RDIMMs

32GB memory (16GB DDR4 DIMM x 2) Single Rank x4

MC-2CD621 / MCX2CD621 (LD)
Max. 24 x Memory (48 x DIMMs) can be mounted per Memory Scale-up Board.
- 2 x 16GB 2400MHz RDIMMs

64GB memory (32GB DDR4 DIMM x 2)

MC-2CD731 / MCX2CD731 (LD)
Max. 24 x Memory (48 x DIMMs) can be mounted per Memory Scale-up Board.
- 2 x 32GB 2400MHz RDIMM

128GB memory (64GB DDR4 DIMM x 2)

MC-2CD811 / MCX2CD811 (LD)
Max. 24 x Memory (48 x DIMMs) can be mounted per Memory Scale-up Board.
- 2 x 64GB 2133MHz LRDIMMs

Memory Mode

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
CPU
CPU
Memory
Memory
RAID Card
HDD
MSB #2
Memory
Memory
SB/MSB #1
MSB #3
I/O Unit #0
PCI Slot
LAN port
I/O Unit #2
I/O Unit #1
PCISlot
LAN Port
I/O Unit #3
Disk Unit #0
RAID card
Disk Unit #1
Option
Memory Mode Setting (Mirror)
MC-0PMM3
Memory Mode Setting (Spare)
MC-0PMM4
Memory Mounting Condition

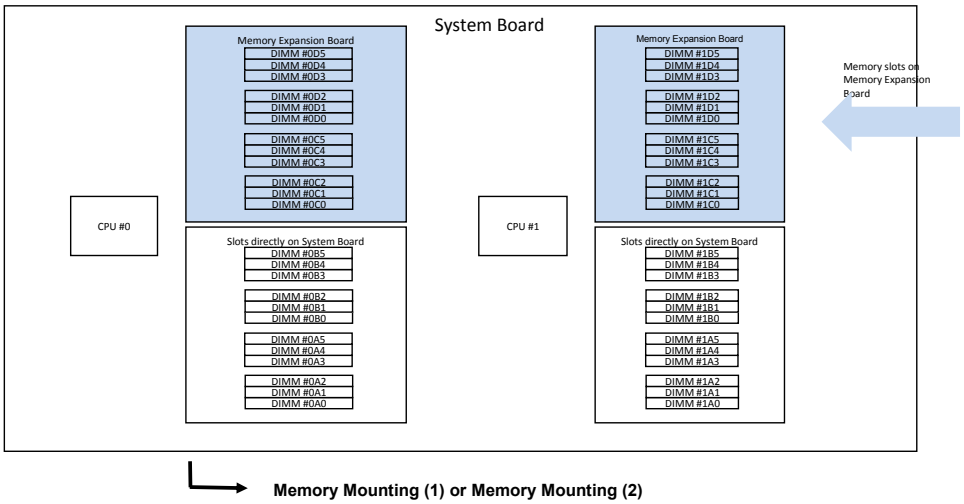
Memory Mounting Condition

1. Memory and Memory Expansion Board
 (1) Memory for PRIMEQUEST is composed of 2 x DIMMs.
 (2) 6 sets (12 x DIMMs) can be mounted per CPU on System Board and 6 sets (12 x DIMMs) can be mounted on Memory Expansion Board.
 (3) Combination of Memory Mode, number of Memory and necessity of Memory Expansion Board is shown below.
 Please order Memory Expansion Board referring the following chart.

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

Memory Mode	Quantity of Memory (Quantity of DIMM)	Memory Expansion Board
Normal Mode	1 (2)	Not Necessary
	2 (4) or more	**Necessary**
Mirror Mode	1 (2) or 2 (4)	Not Necessary
	3 (6) or more	**Necessary**
Spare Mode	1 (2), 2 (4) or 3 (6)	Not Necessary
	4 (8) or more	**Necessary**

2. Memory Mounting Conditions
 (1) Mixture of different type of Memory is not allowed in a single partition.
 The exception is a combination of 16GB Memory (2 x 8GB RDIMM) and 32GB Memory (2 x 16GB RDIMM), which is allowed to mix in a single partition.
 (2) Unit of memory expansion: 1 set (2 x DIMMs) for Normal Mode, 2 sets (4 x DIMMs) for Mirror Mode and 3 sets (6 x DIMMs) for Spare Mode.



In case none of the 3 conditions below is applicable, please see "Memory Mounting (1)".
In case any of the 3 conditions below is applicable, please see "Memory Mounting (2)".
The conditions are:
- A single partition is composed of in total 4 x boards of System Board (SB) and/or Memory Scale-up Board (MSB).
- Dynamic Reconfiguration is enabled.
- Address Range Mirror is enabled.

Memory Mounting (1)

DIMM mounting order on System Board

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

1 x CPU per System Board

	CPU#0							
	0A0	0A3	0B0	0B3	0C0	0C3	0D0	0D3
	0A1	0A4	0B1	0B4	0C1	0C4	0D1	0D4
	0A2	0A5	0B2	0B5	0C2	0C5	0D2	0D5
Normal	1	1	3	3	2	2	4	4
	5	5	7	7	6	6	8	8
	9	9	11	11	10	10	12	12
Mirror	1	1	1	1	2	2	2	2
	3	3	3	3	4	4	4	4
	5	5	5	5	6	6	6	6
Spare	1	1	3	3	2	2	4	4
	1	1	3	3	2	2	4	4
	1	1	3	3	2	2	4	4

2 x CPUs per System Board

	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	4	4	2	2	6	6	1	1	5	5	3	3	7	7
	8	8	12	12	10	10	14	14	9	9	13	13	11	11	15	15
	16	16	20	20	18	18	22	22	17	17	21	21	19	19	23	23
Mirror	1	1	1	1	2	2	2	2	1	1	1	1	3	3	3	3
	4	4	4	4	6	6	6	6	5	5	5	5	7	7	7	7
	8	8	8	8	10	10	10	10	9	9	9	9	11	11	11	11
Spare	1	1	4	4	2	2	6	6	1	1	5	5	3	3	7	7
	1	1	4	4	2	2	6	6	1	1	5	5	3	3	7	7
	1	1	4	4	2	2	6	6	1	1	5	5	3	3	7	7

DIMM slots on Memory Expansion Board

Mixed DIMM mounting condition on System Board

In case different type of DIMMs are mounted on the System Board, the DIMMs need to be mounted in accordance with the following rule.
The same type of DIMMs with the same Product ID need to be mounted in the slots with the same symbol.

1 x CPU per System Board

	CPU#0							
	0A0	0A3	0B0	0B3	0C0	0C3	0D0	0D3
	0A1	0A4	0B1	0B4	0C1	0C4	0D1	0D4
	0A2	0A5	0B2	0B5	0C2	0C5	0D2	0D5
Normal	□	□	○	○	△	△	☆	☆
	□	□	○	○	△	△	☆	☆
	□	□	○	○	△	△	☆	☆
Mirror	□	□	□	□	△	△	△	△
	□	□	□	□	△	△	△	△
	□	□	□	□	△	△	△	△
Spare	□	□	○	○	△	△	☆	☆
	□	□	○	○	△	△	☆	☆
	□	□	○	○	△	△	☆	☆

2 x CPUs per System Board

	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	□	□	○	○	△	△	☆	☆	■	■	●	●	▲	▲	★	★
	□	□	○	○	△	△	☆	☆	■	■	●	●	▲	▲	★	★
	□	□	○	○	△	△	☆	☆	■	■	●	●	▲	▲	★	★
Mirror	□	□	□	□	△	△	△	△	■	■	■	■	▲	▲	▲	▲
	□	□	□	□	△	△	△	△	■	■	■	■	▲	▲	▲	▲
	□	□	□	□	△	△	△	△	■	■	■	■	▲	▲	▲	▲
Spare	□	□	○	○	△	△	☆	☆	■	■	●	●	▲	▲	★	★
	□	□	○	○	△	△	☆	☆	■	■	●	●	▲	▲	★	★
	□	□	○	○	△	△	☆	☆	■	■	●	●	▲	▲	★	★

DIMM slots on Memory Expansion Board

Memory Mounting (2)

DIMM mounting order on System Board

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

2 x CPUs per System Board

	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
	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
	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
	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

DIMM slots on Memory Expansion Board

DIMM mixed mounting condition on System Board

In case different type of DIMMs are mounted on the System Board, the DIMMs need to be mounted in accordance with the following rule.
The same type of DIMMs with the same Product ID need to be mounted in the slots with the same symbol.

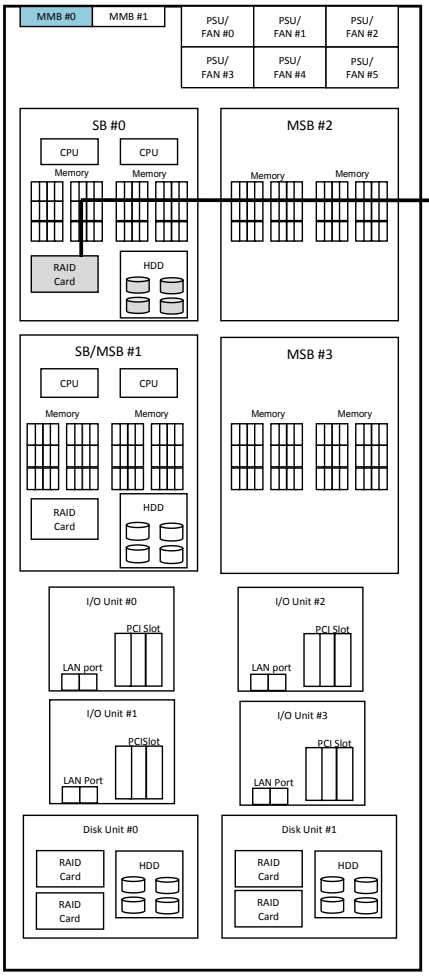
2 x CPUs per System Board

	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	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○
	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○
	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○
Mirror	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
Spare	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○
	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○
	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○

DIMM slots on Memory Expansion Board

6. RAID Controller

to mount on System Boards



SAS RAID Controller Card Mount Kit

MC-0HCK31 / MCX0HCK31 (LD)

- This option is necessary to mount a SAS RAID Controller Card on the System Board.

SAS RAID Controller Card

MC-0JSR51 / MCX0JSR51 (LD)

- 1 x RAID Controller can connect max. 4 x disk drives such as HDD and SSD.
- 1 x Flash Backup Unit can be mounted.
- Data transfer speed: SAS 12Gbps. Cache memory: 2GB
- RAID 0/1/1E/5/6/10 and hot spare supported

RAID Advanced Software Options

MC-0KLA31 / MCX0KLA31 (LD)

- License Activation Key for MegaRAID CacheCade 2.0

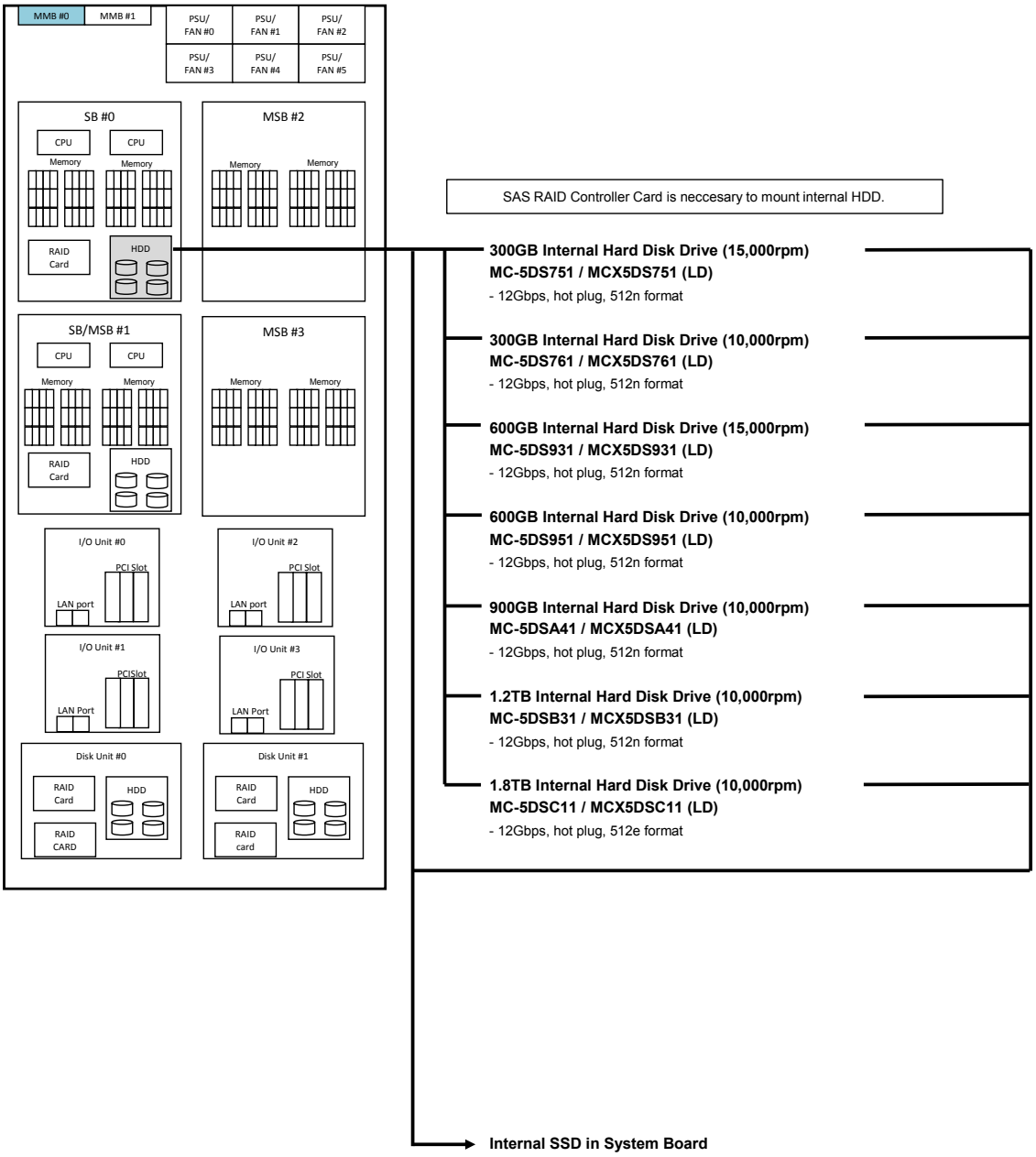
Flash Back-up Unit

MC-0JFB31 / MCX0JFB31 (LD)

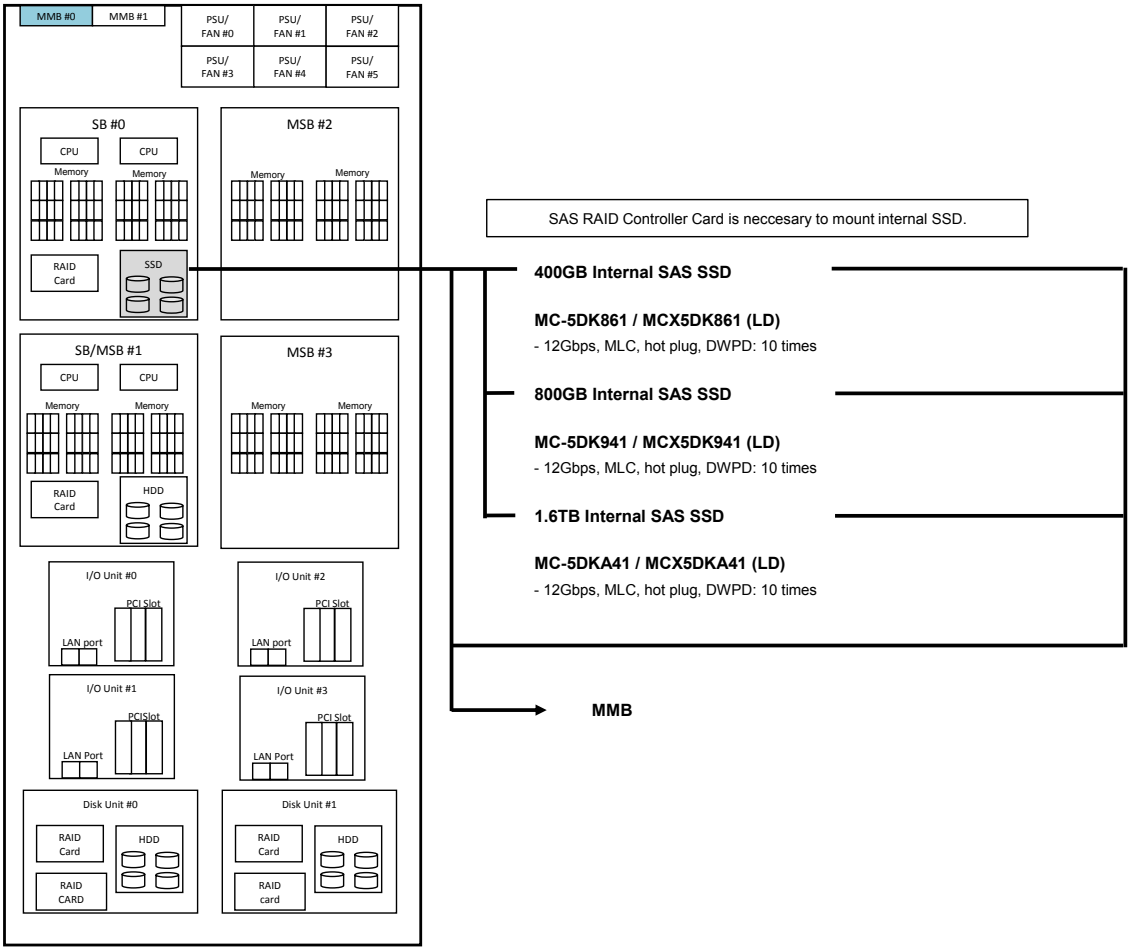
- Flash Backup Unit for RAID Controller with cache memory

Internal HDD in System Board

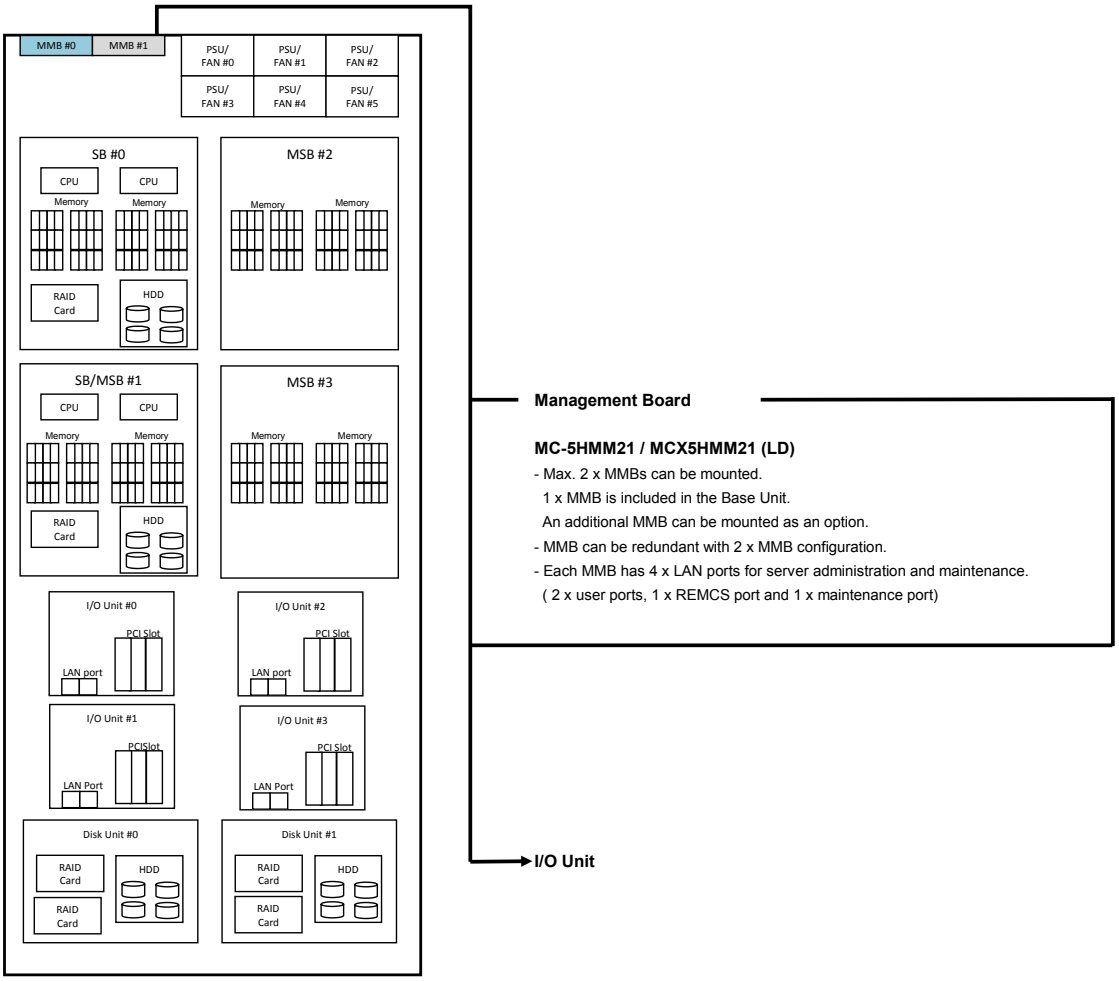
7. Internal HDD in System Board



7. Internal SSD in System Board

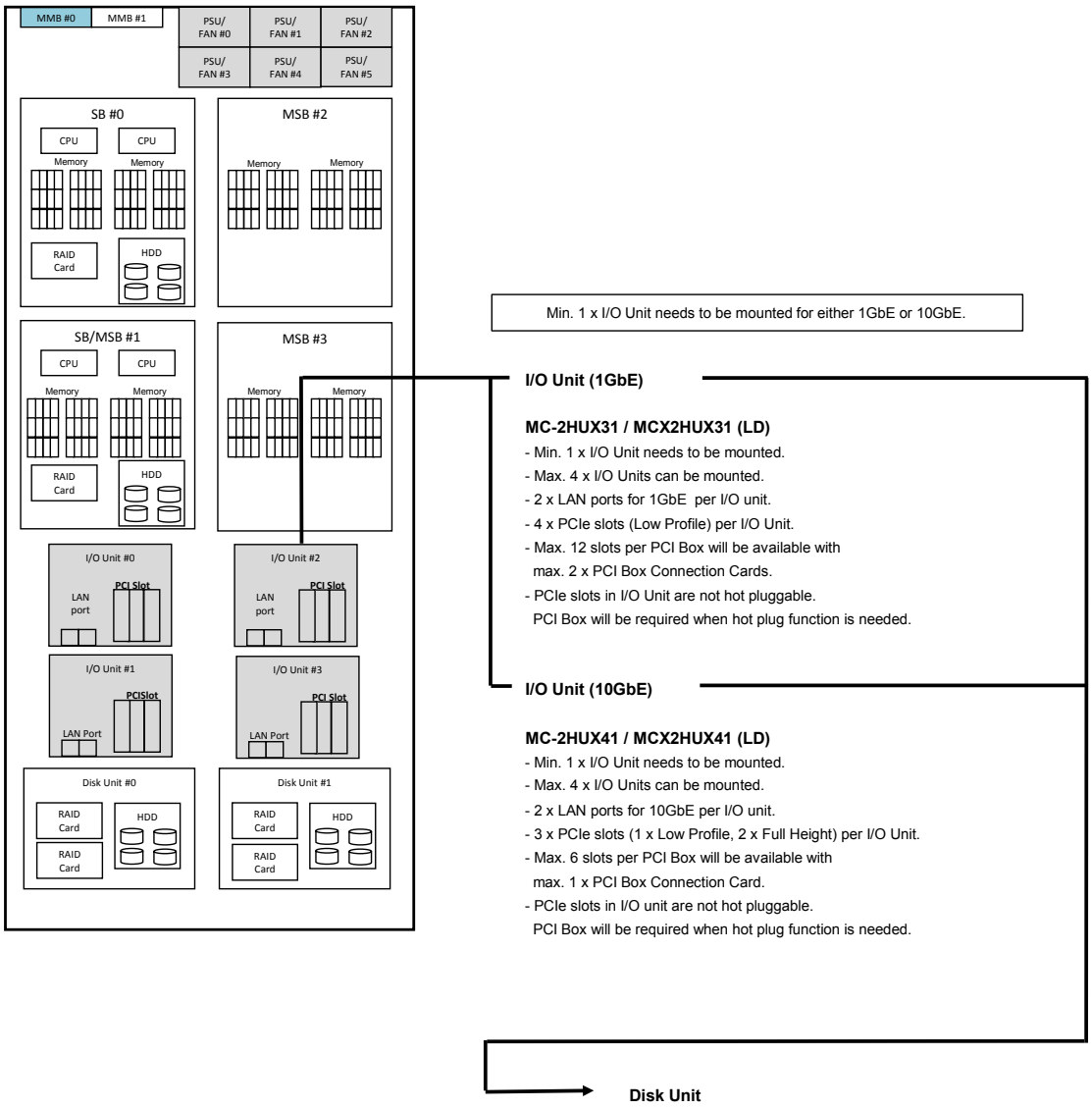


8. Management Board (MMB)

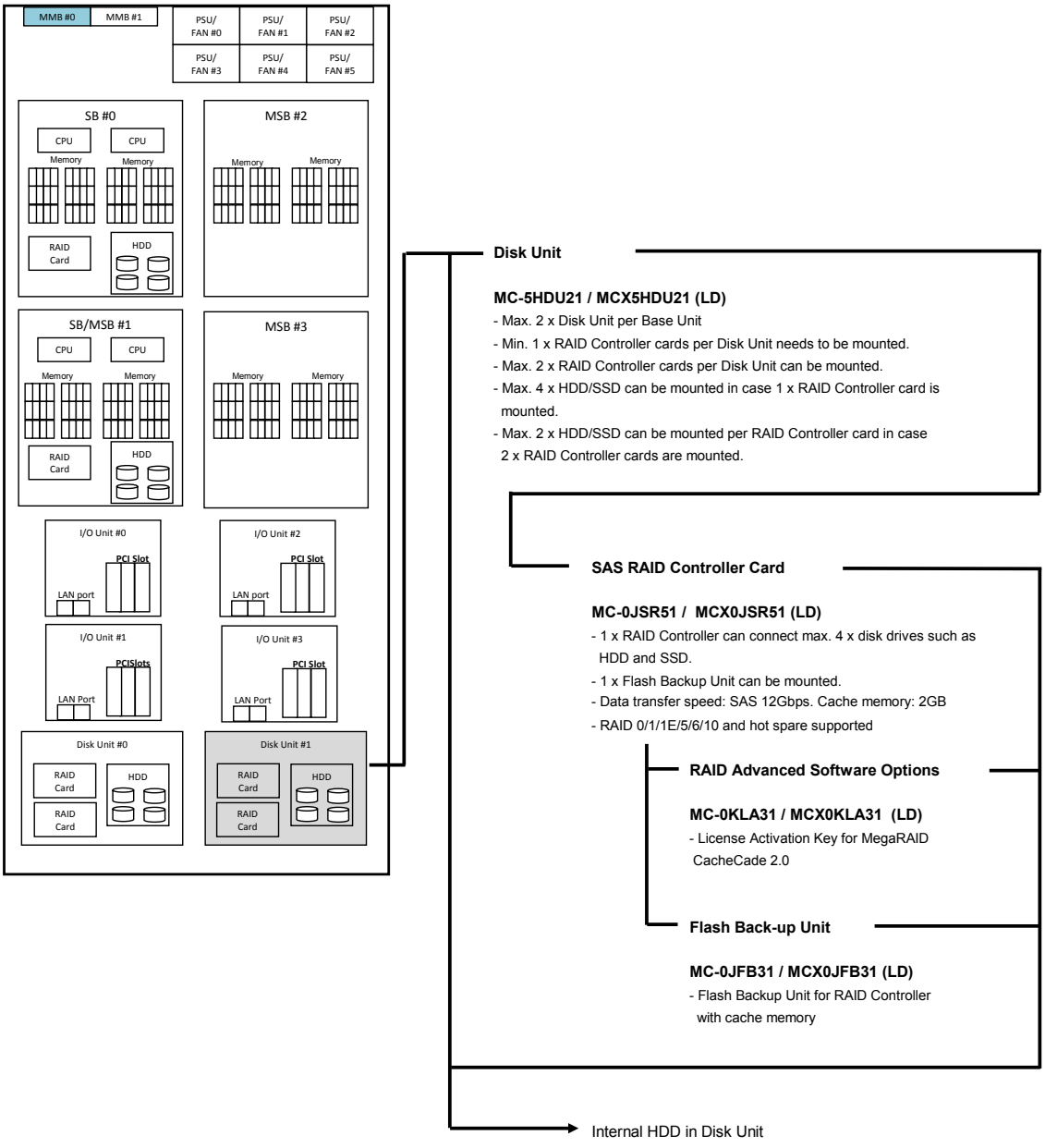


Interface	Ethernet standard	Automatic negotiation function
User port	1000BASE-T/ 100BASE-TX/ 10BASE-T	Supported
REMCS port	100BASE-TX/ 10BASE-T	Supported
Maintenannce port	100BASE-TX/ 10BASE-T	Supported

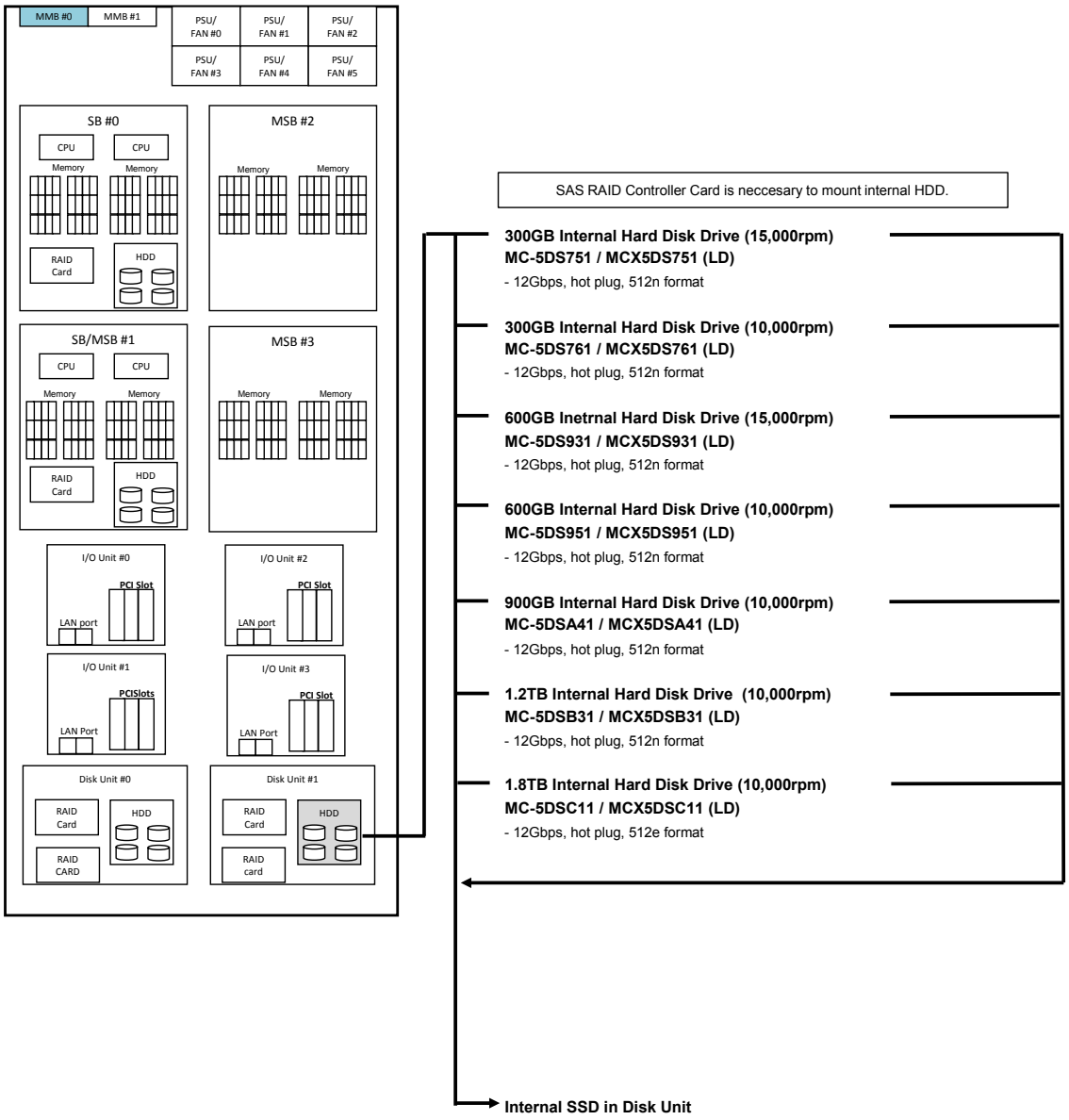
9. I/O Unit


MMB #0
MMB #1
PSU/ FAN #0
PSU/ FAN #1
PSU/ FAN #2
PSU/ FAN #3
PSU/ FAN #4
PSU/ FAN #5
SB #0
CPU
CPU
Memory
Memory
RAID Card
HDD
MSB #2
Memory
Memory
SB/MSB #1
CPU
CPU
Memory
Memory
RAID Card
HDD
MSB #3
Memory
Memory
I/O Unit #0
LAN port
PCI Slot
I/O Unit #2
LAN port
PCI Slot
I/O Unit #1
LAN Port
PCISlot
I/O Unit #3
LAN Port
PCI Slot
Disk Unit #0
RAID Card
RAID Card
HDD
Disk Unit #1
RAID Card
RAID Card
HDD
Min. 1 x I/O Unit needs to be mounted for either 1GbE or 10GbE.
I/O Unit (1GbE)
MC-2HUX31 / MCX2HUX31 (LD)
- Min. 1 x I/O Unit needs to be mounted.
- Max. 4 x I/O Units can be mounted.
- 2 x LAN ports for 1GbE per I/O unit.
- 4 x PCIe slots (Low Profile) per I/O Unit.
- Max. 12 slots per PCI Box will be available with max. 2 x PCI Box Connection Cards.
- PCIe slots in I/O Unit are not hot pluggable. PCI Box will be required when hot plug function is needed.
I/O Unit (10GbE)
MC-2HUX41 / MCX2HUX41 (LD)
- Min. 1 x I/O Unit needs to be mounted.
- Max. 4 x I/O Units can be mounted.
- 2 x LAN ports for 10GbE per I/O unit.
- 3 x PCIe slots (1 x Low Profile, 2 x Full Height) per I/O Unit.
- Max. 6 slots per PCI Box will be available with max. 1 x PCI Box Connection Card.
- PCIe slots in I/O unit are not hot pluggable. PCI Box will be required when hot plug function is needed.
Disk Unit

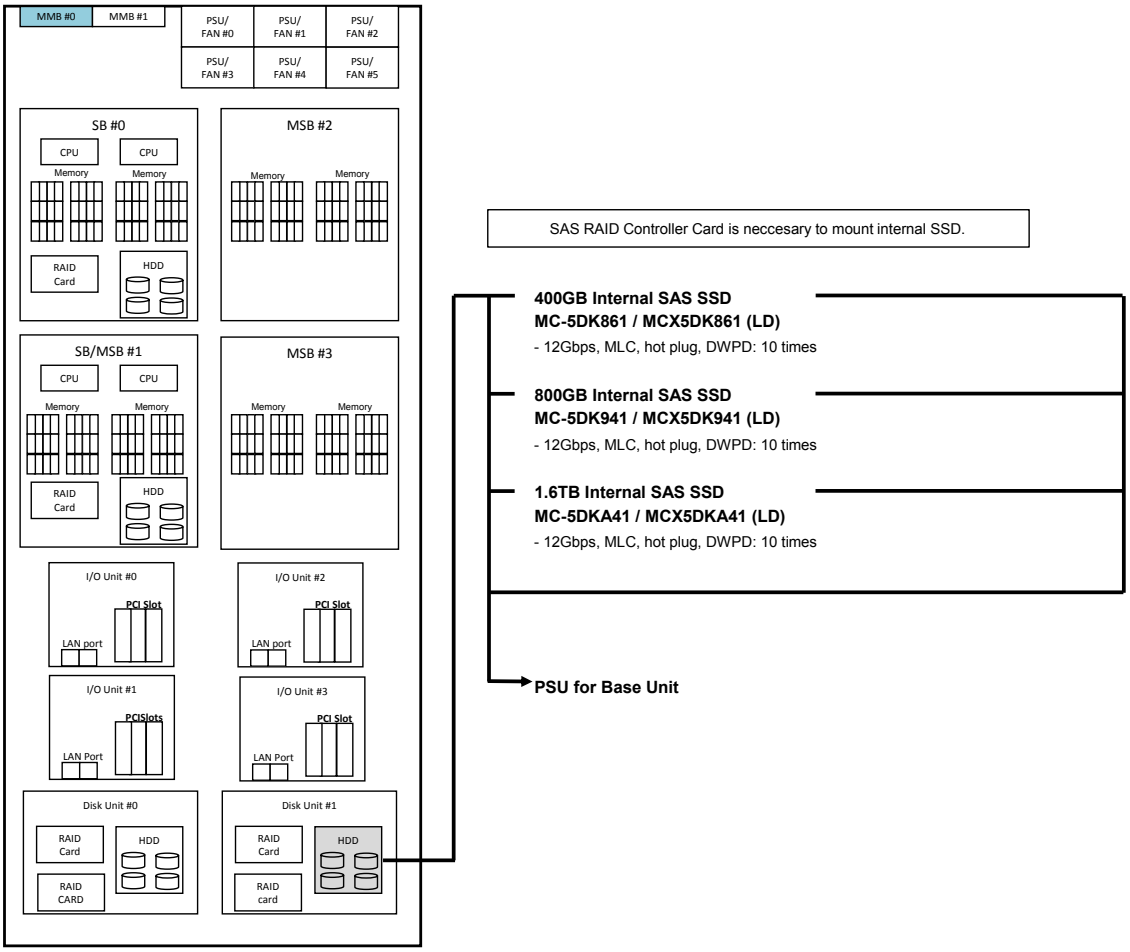
10. Disk Unit


MMB #0
MMB #1
PSU/ FAN #0
PSU/ FAN #1
PSU/ FAN #2
PSU/ FAN #3
PSU/ FAN #4
PSU/ FAN #5
SB #0
CPU
CPU
Memory
Memory
RAID Card
HDD
MSB #2
Memory
Memory
SB/MSB #1
CPU
CPU
Memory
Memory
RAID Card
HDD
MSB #3
Memory
Memory
I/O Unit #0
PCI Slot
LAN port
I/O Unit #2
PCI Slot
LAN port
I/O Unit #1
PCISlots
LAN Port
I/O Unit #3
PCI Slot
LAN Port
Disk Unit #0
RAID Card
RAID Card
HDD
Disk Unit #1
RAID Card
RAID Card
HDD
Disk Unit
MC-5HDU21 / MCX5HDU21 (LD)
- Max. 2 x Disk Unit per Base Unit
- Min. 1 x RAID Controller cards per Disk Unit needs to be mounted.
- Max. 2 x RAID Controller cards per Disk Unit can be mounted.
- Max. 4 x HDD/SSD can be mounted in case 1 x RAID Controller card is mounted.
- Max. 2 x HDD/SSD can be mounted per RAID Controller card in case 2 x RAID Controller cards are mounted.
SAS RAID Controller Card
MC-0JSR51 / MCX0JSR51 (LD)
- 1 x RAID Controller can connect max. 4 x disk drives such as HDD and SSD.
- 1 x Flash Backup Unit can be mounted.
- Data transfer speed: SAS 12Gbps. Cache memory: 2GB
- RAID 0/1/1E/5/6/10 and hot spare supported
RAID Advanced Software Options
MC-0KLA31 / MCX0KLA31 (LD)
- License Activation Key for MegaRAID CacheCade 2.0
Flash Back-up Unit
MC-0JFB31 / MCX0JFB31 (LD)
- Flash Backup Unit for RAID Controller with cache memory
Internal HDD in Disk Unit

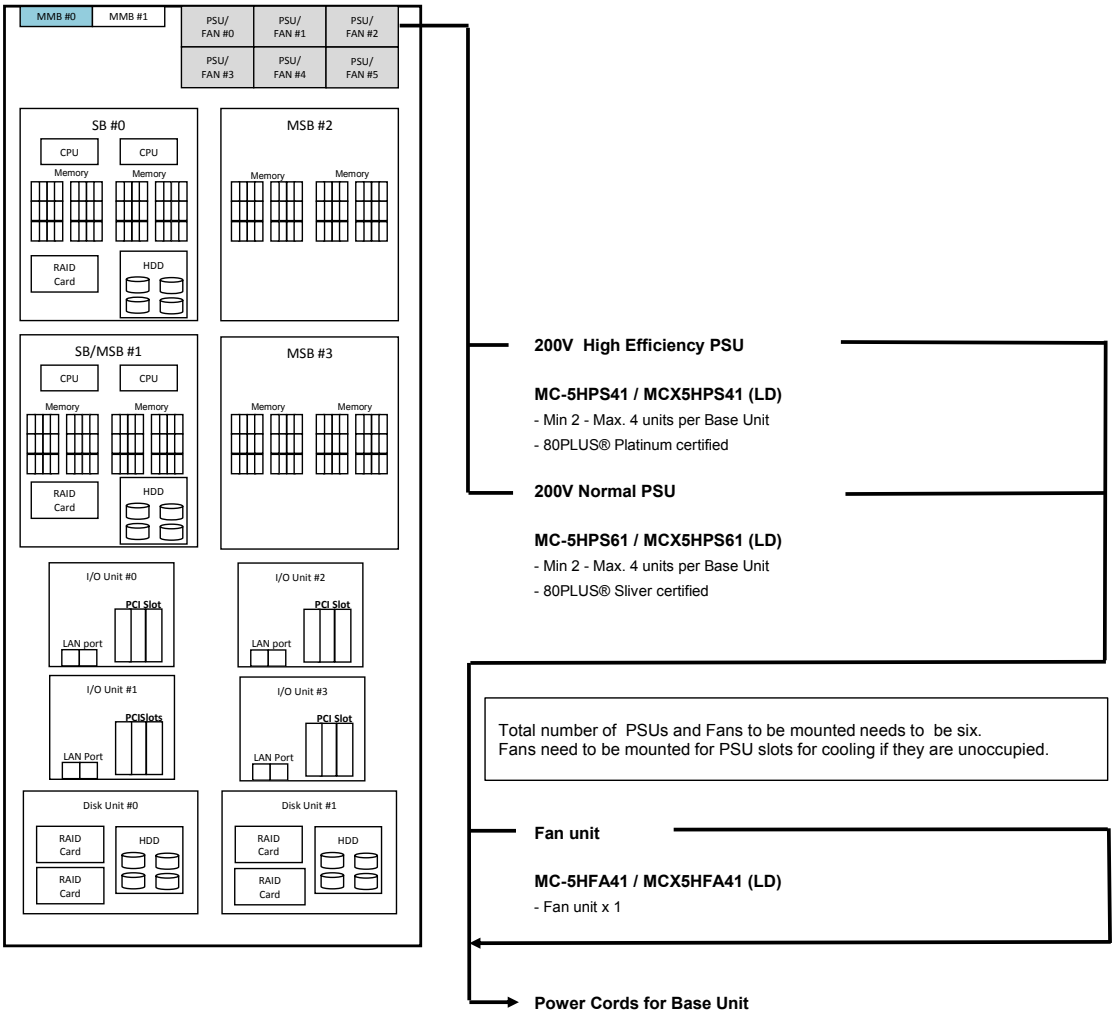
11. Internal HDD in Disk Unit



11. Internal SSD in Disk Unit



12. PSU for Base Unit

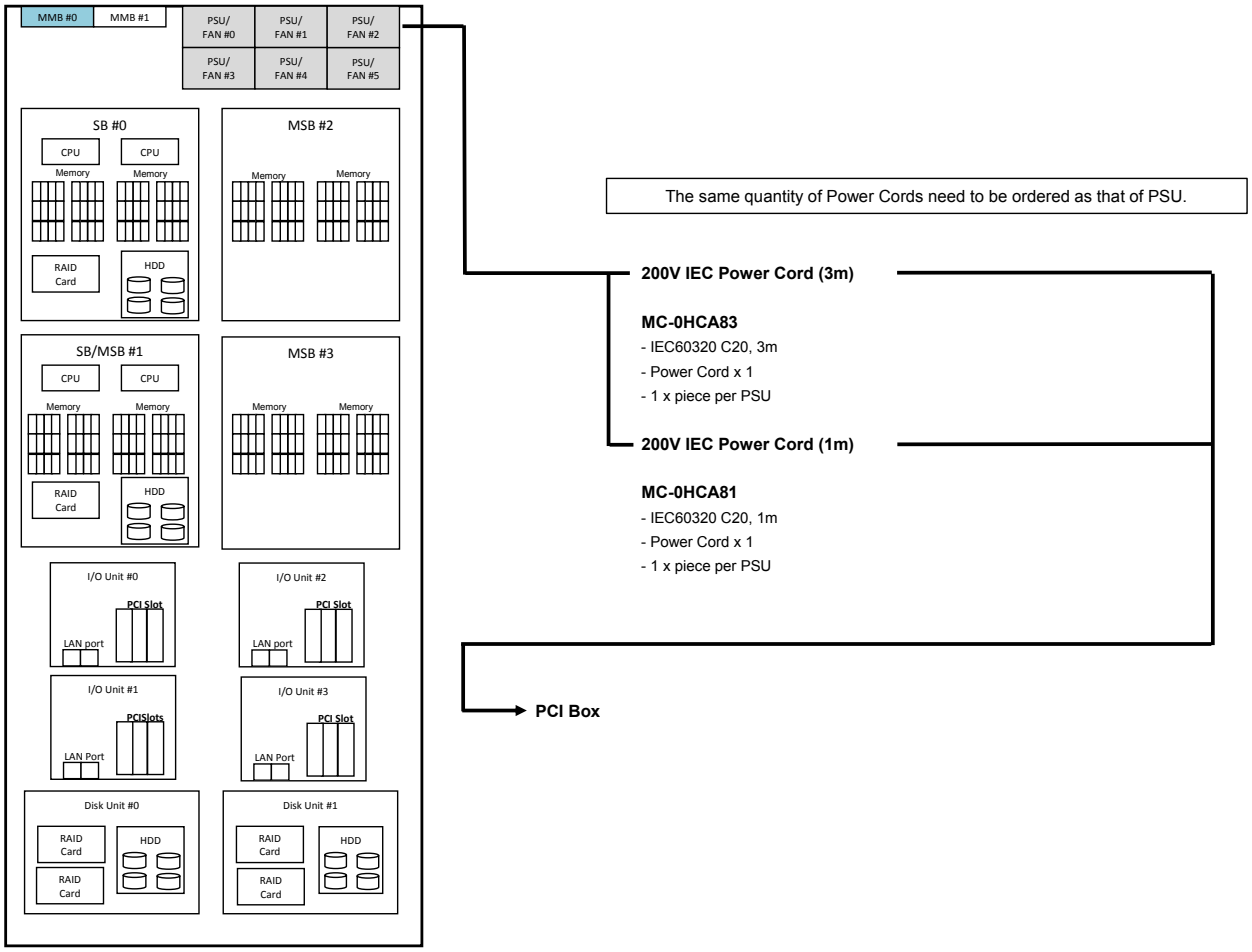


Input voltage	Power feed	Redundancy	# of PSU
AC 200V (without MSB)	Single	Not redundant	2
		redundant (*1)	3 (2+1)
	Dual	redundant (*2)	4 (2x2)
AC 200V (with MSB)	Single	Not redundant	3
		redundant (*1)	4 (3+1)
	Dual	redundant (*2)	6 (3x2)
AC 100V (without MSB)	Single	Not redundant	3
		redundant (*1)	4 (3+1)

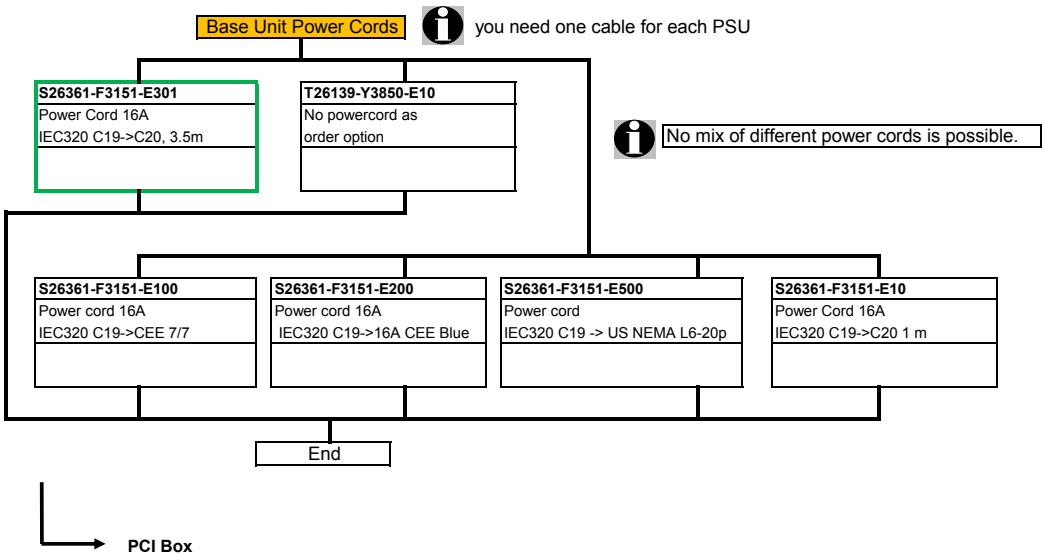
Required quantity		
PSU	Fan	Power cord
2	4	2
3	3	3
4	2	4
3	3	3
4	2	4
6	0	6
3	3	3
4	2	4

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

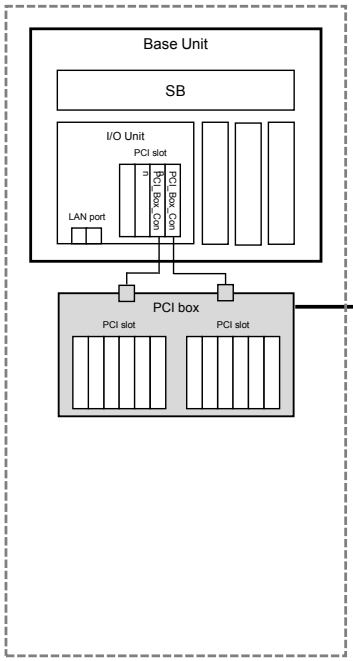
12. Power Cords for Base Unit for APAC and Americas



12. Power Cords for Base Unit for EMEA & India



13. PCI Box



To connect a PCI Box, a PCI Box Connection Card needs to be ordered and mounted in an I/O Unit.

Option

PCI Box

MC-0HPB31 / MCX0HPB31 (LD)
- Max. 4 x PCI Boxes can be connected to I/O Units per Base Unit.
- 1 x PCI Box has 2 x connection ports to connect to PCI Box Connection Cards.
  1 x connection port is used to support 6 x PCI Cards.
  If 2 x connection ports are used to connect 2 x PCI Box Connection Cards,
  max. 12 x PCI Cards can be mounted.
- No PSU is included. Min. 1 x PSU for PCI Box needs to be mounted.
- Fans are mounted with redundant configuration as default configuration.
- Rack space : 4U
- PCI cards are hot plugable.
- 12 x PCI Card Cassettes are included.
- PCI Cards with Full Height bracket need to be chosen.

PSU for PCI Box

MC-0HPS41 / MCX0HPS41 (LD)
- 1 x PSU is included.
- Max. 2 x PSUs can be mounted per PCI Box for redundancy.

PCI Box Connection Card

MC-0JPC11 / MCX0JPC11 (LD)
- PCI Slots with Low Profile bracket are supported.
- 6 x PCI Cards in a PCI Box can be supported per connection port.
- 1 x PCI Box Connection Cable (2m long) is included.
- Max. 8 x PCI Box Connection Cards can be mounted per Base Unit.
- Max. 2 x PCI Box Connection Cards can be mounted per I/O Unit (1GbE).
- Max. 1 x PCI Box Connection Card can be mounted per I/O Unit (10GbE).

next page

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

Input voltage	Power feed	Redundancy	# of PSU
AC 200V/100V	Single	Not available	1
		Available (*1)	1+1
	Dual	Available (*2)	1×2

Required quantity	
PSU	Power cord
1	1
2	2
2	2

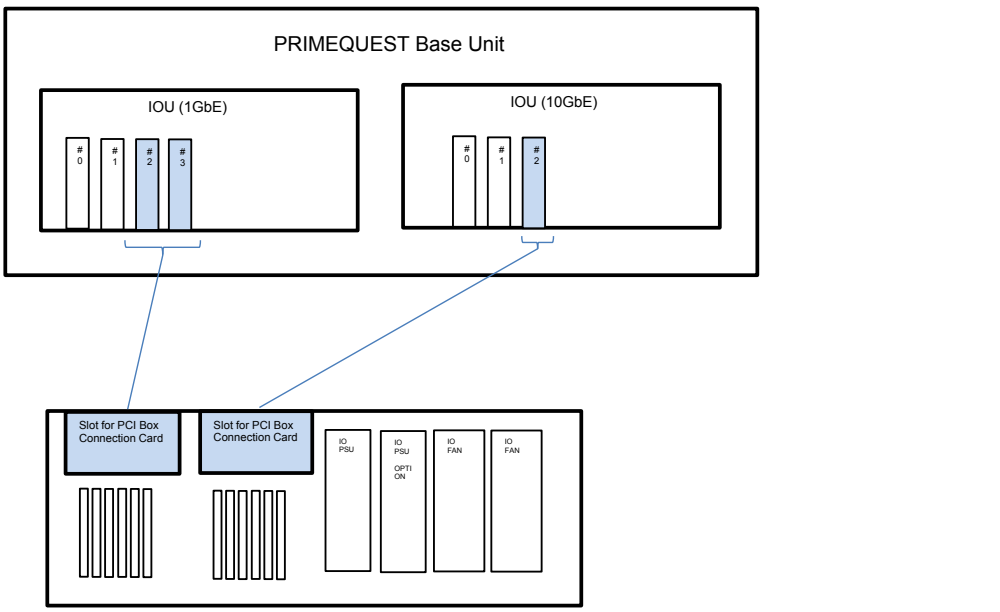
(*1) Single power feed configuration will help to supply power even in the event of PSU failure.
(*2) Dual power feed configuration will help to supply power even in the event of one Power feed failure or PSU failure.

Max. number of PCI Box connectable is determined as below.

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

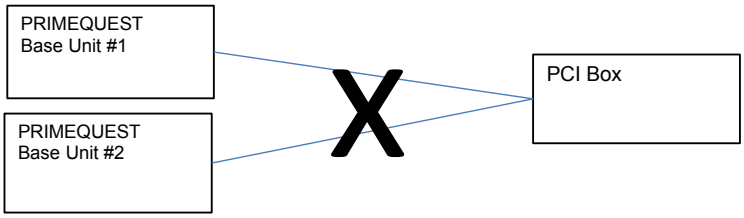
13. PCI Box

PCI Box Connection Card can be mounted in #2 and #3 slots of I/O Unit (1GbE) and #2 in I/O Unit (10GbE).



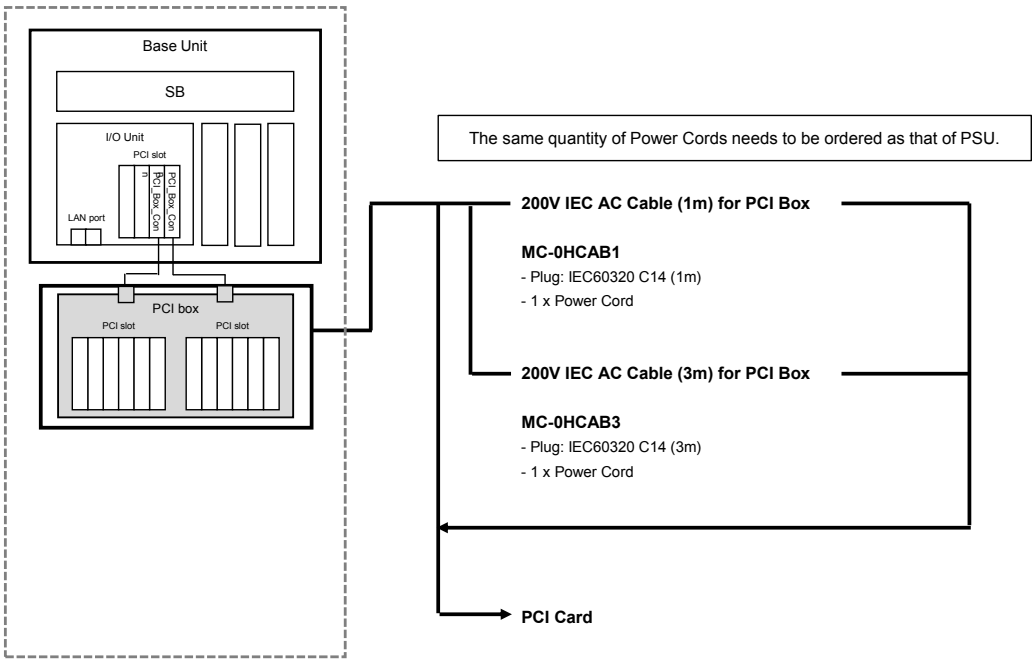
Remark

1 x PCI Box cannot be connected to 2 different Base Units of PRIMEQUEST.

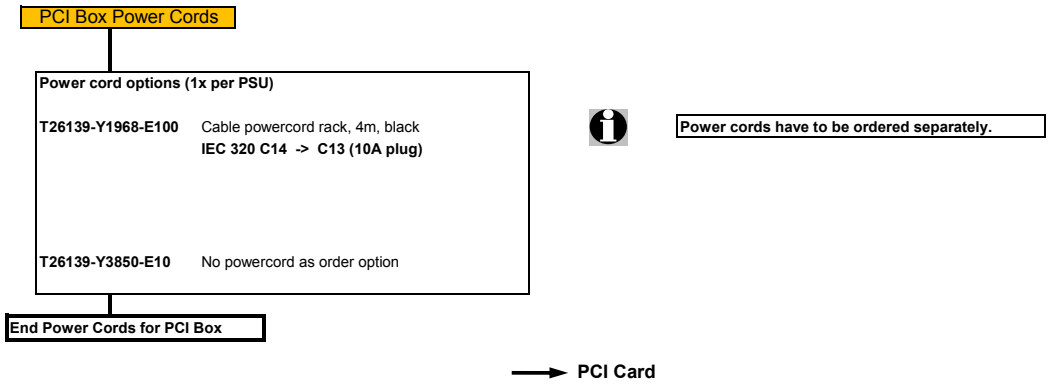


Power Cords for PCI Box

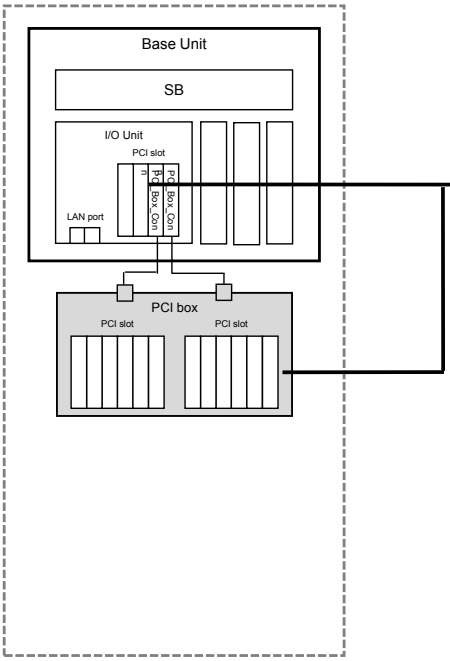
13. Power Cords for PCI Box for APAC and Americas



13. Power Cords for PCI Box for EMEA & India



14. PCI Card



Per Base Unit:
Max. 56 x PCI Cards (excluding PCI Box Connection Cards) can be mounted in both 4 x I/O Units (1GbE) and 4 x PCI Boxes.

-Per I/O Unit (1GbE) : Max. 4 x PCI cards can be mounted.
-Per I/O Unit (10GbE) : Max. 3 x PCI cards can be mounted.
-Per PCI Box : Max. 12 x PCI cards can be mounted.

Single Channel 8Gbps Fibre Channel Card
MC-0JFC31 / MCX0JFC31 (LD)
- LPe1250, Low Profile

Single Channel 8Gbps Fibre Channel Card
MC-0JFC91 / MCX0JFC91 (LD)
-LPe1250, Full Height

Dual Channel 8Gbps Fibre Channel Card
MC-0JFC41 / MCX0JFC41 (LD)
- LPe12002, Low Profile

Dual Channel 8Gbps Fibre Channel Card
MC-0JFCA1 / MCX0JFCA1 (LD)
- LPe12002, Full Height

Single Channel 16Gbps Fibre Channel Card
MC-0JFC71 / MCX0JFC71 (LD)
- LPe16000, Low Profile

Single Channel 16Gbps Fibre Channel Card
MC-0JFC72
- LPe16000, Full Height

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

Dual Channel Fibre Channel Card (16Gbps)
MC-0JFC82
- LPe16002, Full Height

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

next page

14. PCI Card

Per Base Unit:
Max. 56 x PCI Cards (excluding PCI Box Connection Cards) can be mounted in both 4 x I/O Units (1GbE) and 4 x PCI Boxes.

-Per I/O Unit (1GbE) : Max. 4 x PCI cards can be mounted.
-Per I/O Unit (10GbE) : Max. 3 x PCI cards can be mounted.
-Per PCI Box : Max. 12 x PCI cards can be mounted.

Dual Channel 10G BASE Card
(MC-0JXE41 / MCX0JXE41; MC-0JXE42 / MCX0JXE42)

In using these cards, the 10GBASE-CR(Twinax) cable is necessary.
The cables longer than 5 meters cannot be used.
The cables need to be 5 meters long or shorter than that.

Dual Channel 1000BASE-T Card
MC-0JGEA1 / MCX0JGEA1 (LD)
- Eth Ctrl 2x 1GbE [Intel® Ethernet Controller I350] Low Profile

Dual Channel 1000BASE-T Card
MC-0JGEA2
- Eth Ctrl 2x 1GbE [Intel® Ethernet Controller I350] Full Height

Quad Channel 1000BASE-T Card
MC-0JGEB1 / MCX0JGEB1 (LD)
- Eth Ctrl 4x 1GbE [Intel® Ethernet Controller I350] Low Profile

Quad Channel 1000BASE-T Card
MC-0JGEB2
- Eth Ctrl 4x 1GbE [Intel® Ethernet Controller I350] Full Height

Dual Channel 10G BASE-T Card
MC-0JXE31 / MCX0JXE31(LD)
- Eth Ctrl 10GBase-T (RJ45) – Intel Twinville based, Low Profile

Dual Channel 10G BASE-T Card
MC-0JXE32
- Eth Ctrl 10GBase-T (RJ45) – Intel Twinville based, Full Height

Dual Channel 10G BASE Card
MC-0JXE41 / MCX0JXE41(LD)
- Eth Ctrl 2x 10Gb SFP+ - SR/DA, PCIe x8, D2755 – Intel Niantic based, Low Profile

Dual Channel 10G BASE Card
MC-0JXE42 / MCX0JXE42
- Eth Ctrl 2x 10Gb SFP+ - SR/DA, PCIe x8, D2755 – Intel Niantic based, Full Height

Dual Channel 10G BASE Card
MC-0JXE61 / MCX0JXE61(LD)
- LAN Ctrl 10Gb 2 Channels based on OCe14102-NX with Low Profile bracket

Dual Channel 10G BASE Card
MC-0JXE62
- LAN Ctrl 10Gb 2 Channels based on OCe14102-NX with Full Height bracket

Dual Channel 10G BASE Card
MC-0JXE71 / MCX0JXE71(LD)
- LAN Ctrl 10Gb 2 Channels based on OCe14102-NT with Low Profile bracket

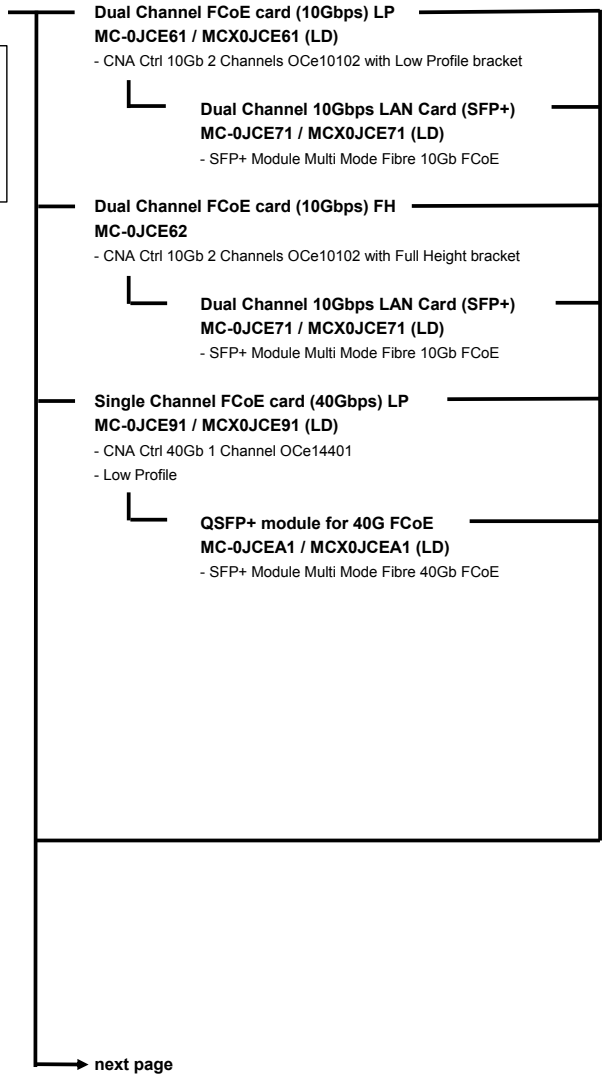
Dual Channel 10G BASE Card
MC-0JXE72
- LAN Ctrl 10Gb 2 Channels based on OCe14102-NT with Full Height bracket

next page

14. PCI Card

Per Base Unit:
Max. 56 x PCI Cards (excluding PCI Box Connection Cards) can be mounted in both 4 x I/O Units (1GbE) and 4 x PCI Boxes.

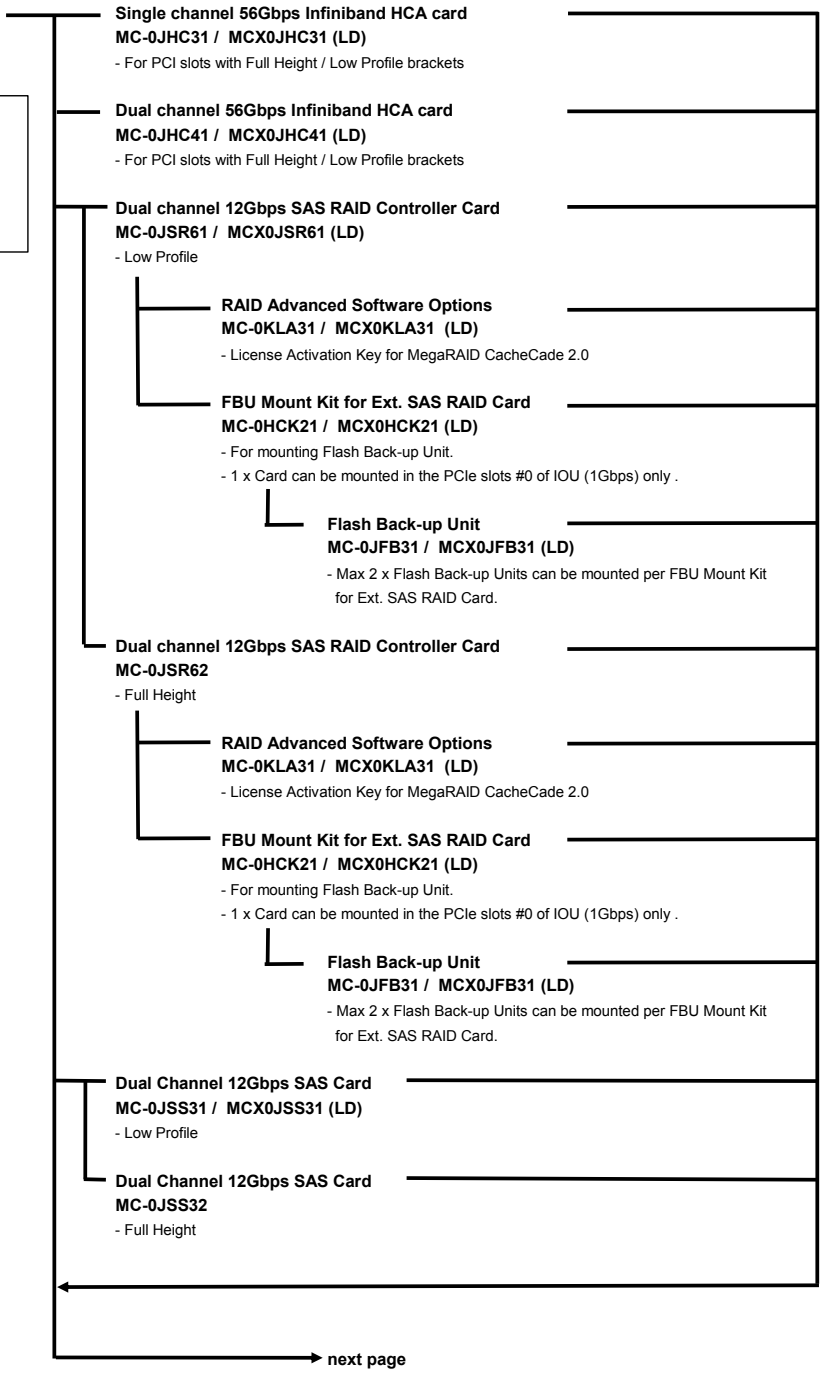
-Per I/O Unit (1GbE) : Max. 4 x PCI cards can be mounted.
-Per I/O Unit (10GbE) : Max. 3 x PCI cards can be mounted.
-Per PCI Box : Max. 12 x PCI cards can be mounted.



14. PCI Card

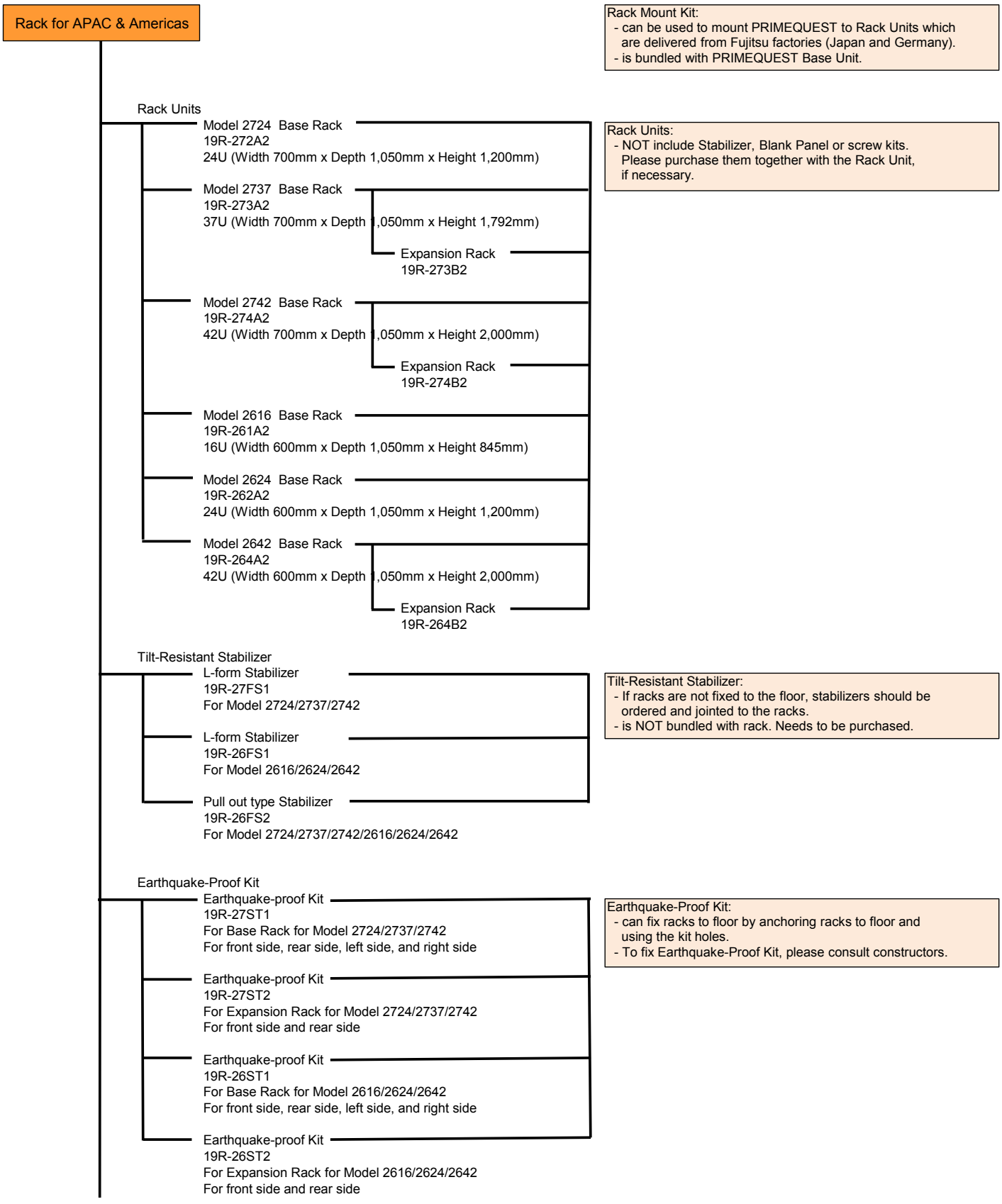
Per Base Unit:
Max. 56 x PCI Cards (excluding PCI Box Connection Cards) can be mounted in both 4 x I/O Units (1GbE) and 4 x PCI Boxes.

-Per I/O Unit (1GbE) : Max. 4 x PCI cards can be mounted.
-Per I/O Unit (10GbE) : Max. 3 x PCI cards can be mounted.
-Per PCI Box : Max. 12 x PCI cards can be mounted.



15. Rack Installation for APAC and Americas

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



Blank Panel

- Blank Panel (1U)
  19R-26BP1
- Blank Panel (2U)
  19R-26BP2
- Blank Panel (3U)
  19R-26BP3

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

Side Cable Duct

- Side Cable Duct
  19R-27SD1
  For Model 2724/2737/2742

Side Cable Duct:
- is used to draw cables connected from the front side of equipments to the rear side of rack without occupying rack space by jointing the Side Cable Ducts to the apertures in the sides of racks.
  Model2724 : one aperture on each of left and right sides
  Mdel2737/2742: 2 apertures on each of left and right sides
- can accommodate around 90 cables with 5mm diameter.
- If one aperture is not jointed with Side Cable Duct, the aperture should be covered with one 1U Blank Panel (19R-26BP1), which needs to be purchased.

Rack Tray

- Rack Tray (Fixed Type)
  19R-26TR1
- Rack Tray (Slide Type)
  19R-26TR2
- Laptop PC Tray
  19R-26TR3

Cable Holder

- Cable Holder for front side
  19R-27CM1
  * For Model 2724/2737/2742
- Cable Holder for rear side
  19R-27CM2
  * For Model 2724/2737/2742
- Cable Holder for front side
  19R-26CM1
  * For Model 2616/2624
- Cable Holder for rear side
  19R-26CM2
  * For Model 2616/2624
- Cable Holder for front side
  19R-26CM11
  * For Model 2642
- Cable Holder for rear side
  19R-26CM21
  * For Model 2642

* Cable holders bundled to each rack:

Model 2724: 6 pcs per Rack
Model 2737: 8 pcs per Rack
Model 2742: 10 pcs per Rack
Model 2616: 4 pcs per Rack
Model 2624: 6 pcs per Rack
Model 2642: 10 pcs per Rack

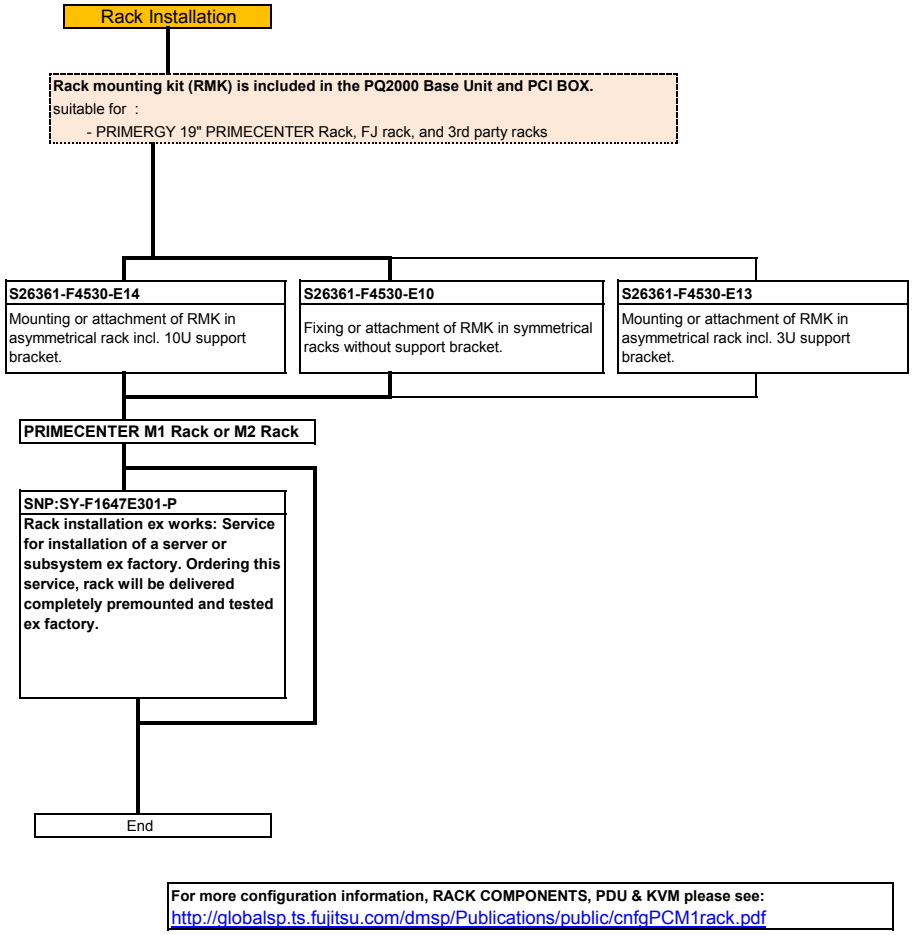
If the bundled quantity is insufficient, please purchase additional cable holders.

Screw kit

- Screw kit
  19R-26SC1
  50 pcs of M6 screws and 50 pcs of M6 cage nuts

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

15. Rack Installation for EMEA and India



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

16. Maximum Quantity of PCIe Cards

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

Product Name			Order Number								Quantity
			Shipped with Base Units				Loose Delivery				PQ2400E3
				Bracket		Bracket		Bracket		Bracket	
SAS RAID controller card	For mounting HDD/SSD		MC-0JSR51	-	-	-	MCX0JSR51	-			6
Dual channel 12Gbps SAS RAID controller card			MC-0JSR61	LP	MC-0JSR62	FH	MCX0JSR61	LP/FH			8
Dual channel 12Gbps SAS Card			MC-0JSS31	LP	MC-0JSS32	FH	MCX0JSS31	LP/FH			8
Single Channel 8Gbps Fibre Channel Card	Emulex LPe1250	*1	MC-0JFC31	LP	MC-0JFC91	FH	MCX0JFC31	LP	MCX0JFC91	FH	24(*2)
Dual Channel 8Gbps Fibre Channel Card	Emulex LPe12002	*1	MC-0JFC41	LP	MC-0JFCA1	FH	MCX0JFC41	LP	MCX0JFCA1	FH	
Single Channel 16Gbps Fibre Channel Card	Emulex LPe16000	*1	MC-0JFC71	LP	MC-0JFC72	FH	MCX0JFC71	LP/FH			
Dual Channel 16Gbps Fibre Channel Card	Emulex LPe16002	*1	MC-0JFC81	LP	MC-0JFC82	FH	MCX0JFC81	LP/FH			
Single Channel 8Gbps Fibre Channel Card	Qlogic QLE2560	*1	MC-0JFC51	LP	MC-0JFC52	FH	MCX0JFC51	LP/FH			24
Dual Channel 8Gbps Fibre Channel Card	Qlogic QLE2562	*1	MC-0JFC61	LP	MC-0JFC62	FH	MCX0JFC61	LP/FH			
Single Channel 16Gbps Fibre Channel Card	Qlogic QLE2670	*1	MC-0JFCB1	LP	MC-0JFCB2	FH	MCX0JFCB1	LP/FH			
Dual Channel 16Gbps Fibre Channel Card	Qlogic QLE2672	*1	MC-0JFCC1	LP	MC-0JFCC2	FH	MCX0JFCC1	LP/FH			
Dual Channel FCoE card (10Gbps)		*1	MC-0JCE61	LP	MC-0JCE62	FH	MCX0JCE61	LP/FH			24(*2)
Single Channel FCoE card (40Gbps)		*1	MC-0JCE91	LP	-	-	MCX0JCE91	LP/FH			16(*2)
Dual Channel 1000BASE-T Card			MC-0JGEA1	LP	MC-0JGEA2	FH	MCX0JGEA1	LP/FH			24(*3)
Quad Channel 1000BASE-T Card			MC-0JGEB1	LP	MC-0JGEB2	FH	MCX0JGEB1	LP/FH			
Dual Channel 10G BASE-T Card			MC-0JXE31	LP	MC-0JXE32	FH	MCX0JXE31	LP/FH			24
Dual Channel 10G BASE-T Card			MC-0JXE71	LP	MC-0JXE72	FH	MCX0JXE71	LP/FH			
Dual Channel 10G BASE Card			MC-0JXE41	LP	MC-0JXE42	FH	MCX0JXE41	LP	MCX0JXE42	FH	
Dual Channel 10G BASE Card			MC-0JXE61	LP	MC-0JXE62	FH	MCX0JXE61	LP/FH			
Single channel 56Gbps Infiniband HCA card			MC-0JHC31	-	-	-	MCX0JHC31	-			24
Dual channel 56Gbps Infiniband HCA card			MC-0JHC41	-	-	-	MCX0JHC41	-			
PCI BoX Connection Card			MC-0JPC11	-	-	-	MCX0JPC11	-			8

Bracket Size:Low Profile(LP), Full Height(FH)

Notes:

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

*2) Max total quantity of "Emulex Fibre Channel Cards" and "FCoE Cards (10Gbps/40Gbps)" that can be mounted:
-Max 16 x Cards per Partition

*3) Max Quantity of 1000BASE-T Cards that can be mounted per I/O Unit:
-4x Cards per I/O Unit (1Gbps)
-2x Cards per I/O Unit (10Gbps)
(For PRIMEQUEST 2800E3/2400E3) In addition, the 1000BASE-T Cards can be mounted on a PCI Box.

17. Available OS

A : Available NA : Not Available

	Product name	Order Number		For Loose Delivery		Model			OS						
		Bracket Size: Full Height		Bracket Size: Full Height		PRIMEQUEST 2800E3	PRIMEQUEST 2400E3	PRIMEQUEST 2800B3	Windows Server® 2012 R2 #1	Windows Server® 2016 #2	RHEL7, RHEL6 #3	SLES12, SLES11 #4	Vmware vSphere #5	Oracle Linux	Oracle VM
Base Unit	PRIMEQUEST 2800E3 Base Unit	MCH3AC111	-	-	-	A	-	-	A	A	A	A	A	A	A
	PRIMEQUEST 2400E3 Base Unit	MCH2AC111	-	-	-	-	A	-	A	A	A	A	A	A	A
	PRIMEQUEST 2800B3 Base Unit	MCH3AC111B	-	-	-	-	-	A	A	A	A	A	A	A	A
System Board	System Board for 2800E3	MC-3HSB91	-	MCX3HSB91	-	A	-	-	A	A	A	A	A	A	A
	System Board for 2400E3	MC-2HSB91	-	MCX2HSB91	-	-	A	-	A	A	A	A	A	A	A
	System Board for 2800B3	MC-3HSB91B	-	MCX3HSB91B	-	-	-	A	A	A	A	A	A	A	A
	TPM Module(v1.2)	MC-6HTP11	-	MCX6HTP11	-	A	A	A	A	NA	A*	A	NA	NA	NA
	TPM Module(v2.0)	MC-6HTP21	-	MCX6HTP21	-	A	A	A	A	NA	NA	NA	A	NA	NA
	RAID Control Card Mount Kit	MC-0HCK31	-	MCX0HCK31	-	A	A	-	A	A	A	A	A	A	A
CPU	CPU Module(2.4GHz/24 core/60MB cache)	MC-3BEJ21	-	MCX3BEJ21	-	A	-	-	A	A	A	A	A	A	A
	CPU Module(2.4GHz/24 core/60MB cache)	MC-2BEJ21	-	MCX2BEJ21	-	-	A	-	A	A	A	A	A	A	A
	CPU Module(2.4GHz/24 core/60MB cache)	MC-3BEJ21B	-	MCX3BEJ21B	-	-	-	A	A	A	A	A	A	A	A
	CPU Module(3.2GHz/4 core/60MB cache)	MC-3BED11	-	MCX3BED11	-	A	-	-	A	A	A	A	A	A	A
	CPU Module(3.2GHz/4 core/60MB cache)	MC-2BED11	-	MCX2BED11	-	-	A	-	A	A	A	A	A	A	A
	CPU Module(3.2GHz/4 core/60MB cache)	MC-3BED11B	-	MCX3BED11B	-	-	-	A	A	A	A	A	A	A	A
	CPU Module(2.8GHz/10 core/60MB cache)	MC-3BEG11	-	MCX3BEG11	-	A	-	-	A	A	A	A	A	A	A
	CPU Module(2.8GHz/10 core/60MB cache)	MC-2BEG11	-	MCX2BEG11	-	-	A	-	A	A	A	A	A	A	A
	CPU Module(2.8GHz/10 core/60MB cache)	MC-3BEG11B	-	MCX3BEG11B	-	-	-	A	A	A	A	A	A	A	A
	CPU Module(2.2GHz/24 core/60MB cache)	MC-3BEA11	-	MCX3BEA11	-	A	-	-	A	A	A	A	A	A	A
	CPU Module(2.2GHz/24 core/60MB cache)	MC-2BEA11	-	MCX2BEA11	-	-	A	-	A	A	A	A	A	A	A
	CPU Module(2.2GHz/24 core/60MB cache)	MC-3BEA11B	-	MCX3BEA11B	-	-	-	A	A	A	A	A	A	A	A
	CPU Module(2.2GHz/22 core/55MB cache)	MC-3BEE11	-	MCX3BEE11	-	A	-	-	A	A	A	A	A	A	A
	CPU Module(2.2GHz/22 core/55MB cache)	MC-2BEE11	-	MCX2BEE11	-	-	A	-	A	A	A	A	A	A	A
	CPU Module(2.2GHz/22 core/55MB cache)	MC-3BEE11B	-	MCX3BEE11B	-	-	-	A	A	A	A	A	A	A	A
	CPU Module(2.1GHz/20 core/50MB cache)	MC-3BEF11	-	MCX3BEF11	-	A	-	-	A	A	A	A	A	A	A
	CPU Module(2.1GHz/20 core/50MB cache)	MC-2BEF11	-	MCX2BEF11	-	-	A	-	A	A	A	A	A	A	A
	CPU Module(2.1GHz/20 core/50MB cache)	MC-3BEF11B	-	MCX3BEF11B	-	-	-	A	A	A	A	A	A	A	A
	CPU Module(2.4GHz/18 core/45MB cache)	MC-3BEC11	-	MCX3BEC11	-	A	-	-	A	A	A	A	A	A	A
	CPU Module(2.4GHz/18 core/45MB cache)	MC-2BEC11	-	MCX2BEC11	-	-	A	-	A	A	A	A	A	A	A
	CPU Module(2.4GHz/18 core/45MB cache)	MC-3BEC11B	-	MCX3BEC11B	-	-	-	A	A	A	A	A	A	A	A
	CPU Module(2.2GHz/18 core/45MB cache)	MC-3BEB11	-	MCX3BEB11	-	A	-	-	A	A	A	A	A	A	A
	CPU Module(2.2GHz/18 core/45MB cache)	MC-2BEB11	-	MCX2BEB11	-	-	A	-	A	A	A	A	A	A	A
	CPU Module(2.2GHz/18 core/45MB cache)	MC-3BEB11B	-	MCX3BEB11B	-	-	-	A	A	A	A	A	A	A	A
	CPU Module(2.1GHz/14 core/35MB cache)	MC-3BEK11	-	MCX3BEK11	-	A	-	-	A	A	A	A	A	A	A
	CPU Module(2.1GHz/14 core/35MB cache)	MC-2BEK11	-	MCX2BEK11	-	-	A	-	A	A	A	A	A	A	A
	CPU Module(2.1GHz/14 core/35MB cache)	MC-3BEK11B	-	MCX3BEK11B	-	-	-	A	A	A	A	A	A	A	A
Memory	Memory Expansion Board	MC-3HMB31	-	MCX3HMB31	-	A	-	-	A	A	A	A	A	A	A
	Memory Expansion Board	MC-2HMB31	-	MCX2HMB31	-	-	A	-	A	A	A	A	A	A	A
	Memory Expansion Board	MC-3HMB31B	-	MCX3HMB31B	-	-	-	A	A	A	A	A	A	A	A
	Memory Scale-up Board	MC-2HMSA1	-	MCX2HMSA1	-	-	A	-	NA	NA	A	NA	NA	NA	NA
	16GB memory (8GB DDR4 DIMM x 2)	MC-3CD521	-	MCX3CD521	-	A	-	-	A	A	A	A	A	A	A
	16GB memory (8GB DDR4 DIMM x 2)	MC-2CD521	-	MCX2CD521	-	-	A	-	A	A	A	A	A	A	A
	16GB memory (8GB DDR4 DIMM x 2)	MC-3CD521B	-	MCX3CD521B	-	-	-	A	A	A	A	A	A	A	A
	32GB memory (16GB DDR4 DIMM x 2)	MC-3CD621	-	MCX3CD621	-	A	-	-	A	A	A	A	A	A	A
	32GB memory (16GB DDR4 DIMM x 2)	MC-2CD621	-	MCX2CD621	-	-	A	-	A	A	A	A	A	A	A
	32GB memory (16GB DDR4 DIMM x 2)	MC-3CD621B	-	MCX3CD621B	-	-	-	A	A	A	A	A	A	A	A
	32GB memory (16GB DDR4 DIMM x 2)	MC-3CD631	-	MCX3CD631	-	A	-	-	A	A	A	A	A	A	A
	32GB memory (16GB DDR4 DIMM x 2)	MC-3CD631B	-	MCX3CD631B	-	-	-	A	A	A	A	A	A	A	A
	64GB memory (32GB DDR4 DIMM x2)	MC-3CD731	-	MCX3CD731	-	A	-	-	A	A	A	A	A	A	A
	64GB memory (32GB DDR4 DIMM x2)	MC-2CD731	-	MCX2CD731	-	-	A	-	A	A	A	A	A	A	A
	64GB memory (32GB DDR4 DIMM x2)	MC-3CD731B	-	MCX3CD731B	-	-	-	A	A	A	A	A	A	A	A
	128GB memory (64GB DDR4 DIMM x 2)	MC-3CD811	-	MCX3CD811	-	A	-	-	A	A	A	A	A	A	A
	128GB memory (64GB DDR4 DIMM x 2)	MC-2CD811	-	MCX2CD811	-	-	A	-	A	A	A	A	A	A	A
	128GB memory (64GB DDR4 DIMM x 2)	MC-3CD811B	-	MCX3CD811B	-	-	-	A	A	A	A	A	A	A	A
	256GB memory (128GB DDR4 DIMM x2)	MC-3CD911	-	MCX3CD911	-	A	-	-	A	A	A	A	A	A	A
	256GB memory (128GB DDR4 DIMM x2)	MC-2CD911	-	MCX2CD911	-	-	A	-	A	A	A	A	A	A	A
	256GB memory (128GB DDR4 DIMM x2)	MC-3CD911B	-	MCX3CD911B	-	-	-	A	A	A	A	A	A	A	A
	Memory Mode Setting (Normal)	MC-0PMM1	-	-	-	-	-	A	A	A	A	A	A	A	A
	Memory Mode Setting (Mirror)	MC-0PMM3	-	-	-	A	A	A	A	A	A	A	A	A	A
	Memory Mode Setting(Spare)	MC-0PMM4	-	-	-	A	A	A	A	A	A	A	A	A	A
Management Board	Management Board	MC-5HMM21	-	MCX5HMM21	-	A	A	-	A	A	A	A	A	A	A

#1: Windows Server® 2012 R2
#2: Windows Server® 2016
#3: Red Hat® Enterprise Linux® 7(for Intel64)
/ Red Hat® Enterprise Linux® 6(for Intel64)
#4: SUSE® Linux Enterprise Server 12 for AMD64 and Intel64
/ SUSE® Linux Enterprise Server 11 for AMD64 and Intel64
#5: VMware ESXi 6.5 / VMware ESXi 6.0(Update1b and Update2)

A* : (RHEL) Supported by RHEL7.2 and later.
NOT Supported by RHEL6.x.
NA: Not Available

-Needs to be connected to a System Board with 2x CPUs.
-Cannot be connected to a System Board with CPU(MC-2BEK11).
Mixture with 64GB/128GB Memory is not allowed in a partition.
Mixture with 64GB/128GB Memory is not allowed in a partition.
Mixture with 64GB/128GB Memory is not allowed in a partition.
Mixture with 64GB/128GB Memory is not allowed in a partition.
Mixture with 64GB/128GB Memory is not allowed in a partition.
Mixture with 64GB/128GB Memory is not allowed in a partition.
Dual Rank x4
Dual Rank x4
Mixture with 16GB/32GB/128GB Memory is not allowed in a partition.
Mixture with 16GB/32GB/128GB Memory is not allowed in a partition.
Mixture with 16GB/32GB/128GB Memory is not allowed in a partition.
Mixture with 16GB/32GB/64GB Memory is not allowed in a partition.
Mixture with 16GB/32GB/64GB Memory is not allowed in a partition.
Mixture with 16GB/32GB/64GB Memory is not allowed in a partition.
Mixture with 16GB/32GB/64GB/128GB Memory is not allowed in a partition.
Mixture with 16GB/32GB/64GB/128GB Memory is not allowed in a partition.
Mixture with 16GB/32GB/64GB/128GB Memory is not allowed in a partition.

17. Available OS

A : Available NA : Not Available

	Product name	Order Number				Model			OS							
			Bracket Size: Full Height	For Loose Delivery	Bracket Size: Full Height	PRIMEQUEST 2800E3	PRIMEQUEST 2400E3	PRIMEQUEST 2800B3	Windows Server® 2012 R2 #1	Windows Server® 2016 #2	RHEL7, RHEL6 #3	SLES12, SLES11 #4	Vmware vSphere #5	Oracle Linux	Oracle VM	
I/O Unit	I/O Unit (1GbE)	MC-3HUX31	-	MCX3HUX31	-	A	-	-	A	A	A	A	A	A	A	
	I/O Unit (1GbE)	MC-2HUX31	-	MCX2HUX31	-	-	A	-	A	A	A	A	A	A	A	
	I/O Unit (1GbE)	MC-3HUX31B	-	MCX3HUX31B	-	-	-	A	A	A	A	A	A	A	A	
	I/O Unit (10GbE)	MC-3HUX41	-	MCX3HUX41	-	A	-	-	A	A	A	A	A	A	A	
	I/O Unit (10GbE)	MC-2HUX41	-	MCX2HUX41	-	-	A	-	A	A	A	A	A	A	A	
	I/O Unit (10GbE)	MC-3HUX41B	-	MCX3HUX41B	-	-	-	A	A	A	A	A	A	A	A	
Disk Unit	Disk Unit	MC-5HDU21	-	MCX5HDU21	-	A	A	-	A	A	A	A	A	A	A	
	Disk Unit	MC-5HDU21B	-	MCX5HDU21B	-	-	-	A	A	A	A	A	A	A	A	
Hard Disk Drive	300GB Internal HDD (15,000rpm)	MC-5DS751	-	MCX5DS751	-	A	A	A	A	A	A	A	A	A	A	
	300GB Internal HDD (10,000rpm)	MC-5DS761	-	MCX5DS761	-	A	A	A	A	A	A	A	A	A	A	
	600GB Internal HDD (15,000rpm)	MC-5DS931	-	MCX5DS931	-	A	A	A	A	A	A	A	A	A	A	
	600GB Internal HDD (10,000rpm)	MC-5DS951	-	MCX5DS951	-	A	A	A	A	A	A	A	A	A	A	
	900GB Internal HDD (10,000rpm)	MC-5DSA41	-	MCX5DSA41	-	A	A	A	A	A	A	A	A	A	A	
	1.2TB Internal HDD (10,000rpm)	MC-5DSB31	-	MCX5DSB31	-	A	A	A	A	A	A	A	A	A	A	
	1.8TB Internal HDD (10,000rpm)	MC-5DSC11	-	MCX5DSC11	-	A	A	A	A	A	A	A	A4	A	A	A4 : (VMware) Supported by ESXi 6.5 and later. NOT Supported by ESXi 6.0.
Solid State Drive	400GB Internal SSD	MC-5DK861	-	MCX5DK861	-	A	A	A	A	A	A	A	A	A	A	
	800GB Internal SSD	MC-5DK941	-	MCX5DK941	-	A	A	A	A	A	A	A	A	A	A	
	1.6TB Intenral SSD	MC-5DKA41	-	MCX5DKA41	-	A	A	A	A	A	A	A	A	A	A	
Power Supply Unit	100-240V AC High Efficiency PSU	MC-5HPS41	-	MCX5HPS41	-	A	A	A	A	A	A	A	A	A	A	
	100-240V AC Normal PSU	MC-5HPS61	-	MCX5HPS61	-	A	A	A	A	A	A	A	A	A	A	
Fan Unit	FAN Unit	MC-5HFA41	-	MCX5HFA41	-	A	A	A	A	A	A	A	A	A	A	
Power Supply Unit	IEC AC (100V/200V) Cable (3m)	MC-0HCA83	-	-	-	A	A	A	Not dependent on OS							
option	IEC AC (100V/200V) Cable (1m)	MC-0HCA81	-	-	-	A	A	A	Not dependent on OS							
PCI BOX	PCI BOX	MC-0HPB31	-	MCX0HPB31	-	A	A	-	A	NA	A	A	A	A	A	NA: Not Available
	PSU for PCI BOX	MC-0HPS41	-	MCX0HPS41	-	A	A	-	A	NA	A	A	A	A	A	NA: Not Available
	200V IEC Electric Cables for PCI Box (3m)	MC-0HCAB3	-	-	-	A	A	-	Not dependent on OS							
	200V IEC Electric Cables for PCI Box (1m)	MC-0HCAB1	-	-	-	A	A	-	Not dependent on OS							
PCIe Card	SAS RAID controller card	MC-0JSR51	-	MCX0JSR51	-	A	A	A	A	A	A	A	A	A	A	
	Flash Back-up Unit	MC-0JFB31	-	MCX0JFB31	-	A	A	A	A	A	A	A	A	A	A	
	Single Channel 8Gbps Fibre Channel Card	MC-0JFC31	MC-0JFC91	MCX0JFC31	MCX0JFC91	A	A	A	A	A	A	A	A	A	A	
	Dual Channel 8Gbps Fibre Channel Card	MC-0JFC41	MC-0JFCA1	MCX0JFC41	MCX0JFCA1	A	A	A	A	A	A	A	A	A	A	
	Single Channel 8Gbps Fiber Channel Card	MC-0JFC51	MC-0JFC52	MCX0JFC51	-	A	A	A	A	NA	A0	A	A	A	A	A0 : (RHEL) NOT Supported by RHEL7.3
	Dual Channel 8Gbps Fiber Channel Card	MC-0JFC61	MC-0JFC62	MCX0JFC61	-	A	A	A	A	NA	A0	A	A	A	A	A0 : (RHEL) NOT Supported by RHEL7.3
	Single Channel 16Gbps Fibre Channel Card	MC-0JFC71	MC-0JFC72	MCX0JFC71	-	A	A	A	A	NA	A	A	A	A	A	NA: Not Available
	Dual Channel 16Gbps Fibre Channel Card	MC-0JFC81	MC-0JFC82	MCX0JFC81	-	A	A	A	A	NA	A	A	A	A	A	NA: Not Available
	Single Channel 16Gbps Fiber Channel Card	MC-0JFCB1	MC-0JFCB2	MCX0JFCB1	-	A	A	A	A	NA	A0	A	A	A	A	A0 : (RHEL) NOT Supported by RHEL7.3
	Dual Channel 16Gbps Fiber Channel Card	MC-0JFCC1	MC-0JFCC2	MCX0JFCC1	-	A	A	A	A	NA	A0	A	A	A	A	A0 : (RHEL) NOT Supported by RHEL7.3
	Dual Channel 1000BASE-T Card	MC-0JGEA1	MC-0JGEA2	MCX0JGEA1	-	A	A	A	A	A	A	A	A	A	A	
	Quad Channel 1000BASE-T Card	MC-0JGEB1	MC-0JGEB2	MCX0JGEB1	-	A	A	A	A	A	A	A	A	A	A	
	Dual Channel 10G BASE-T Card	MC-0JXE31	MC-0JXE32	MCX0JXE31	-	A	A	A	A	A	A	A	A	A	A	
	Dual Channel 10G BASE-T Card	MC-0JXE71	MC-0JXE72	MCX0JXE71	-	A	A	A	A	A	A	A	A	A	A	
	Dual Channel 10G BASE Card	MC-0JXE41	MC-0JXE42	MCX0JXE41	MCX0JXE42	A	A	A	A	A	A	A	A	A	A	
	Dual Channel 10G BASE Card	MC-0JXE61	MC-0JXE62	MCX0JXE61	-	A	A	A	A	A	A	A	A	A	A	
	Dual Channel 10Gbps LAN Card (SFP+)	MC-0JXE51	-	MCX0JXE51	-	A	A	A	A	A	A	A	A	A	A	
	Dual Channel FCoE card (10Gbps)	MC-0JCE61	MC-0JCE62	MCX0JCE61	-	A	A	A	A	A	A	A	A	A	A	
	Dual Channel 10Gbps LAN Card (SFP+)	MC-0JCE71	-	MCX0JCE71	-	A	A	A	A	A	A	A	A	A	A	
	Single Channel FCoE card (40Gbps)	MC-0JCE91	-	MCX0JCE91	-	A	A	A	A	A	A	A	NA	A	A	NA: Not Available
	QSFP+ module for 40G FCoE	MC-0JCEA1	-	MCX0JCEA1	-	A	A	A	A	A	A	A	NA	A	A	NA: Not Available
	Single channel 56Gbps Infiniband HCA card	MC-0JHC31	-	MCX0JHC31	-	A	A	A	A	NA	A1	A2	NA	NA	NA	A1 : (RHEL) Supported by Neither RHEL6.8 nor RHEL7.3
	Dual channel 56Gbps Infiniband HCA card	MC-0JHC41	-	MCX0JHC41	-	A	A	A	A	NA	A1	A2	NA	NA	NA	A2 : (SLES) NOTsupported by SLES12
	Dual channel 12Gbps SAS RAID Control Card	MC-0JSR61	MC-0JSR62	MCX0JSR61	-	A	A	A	A	A	A	A	A	A	A	
	FBU Mount Kit for Ext. SAS RAID Card	MC-0HCK21	-	MCX0HCK21	-	A	A	A	A	A	A	A	A	A	A	
	RAID Advanced Software Options	MC-0KLA31	-	-	-	A	A	A	A	A	A	A	A	A	A	
	Dual Channel 12Gbps SAS Card	MC-0JSS31	MC-0JSS32	MCX0JSS31	-	A	A	A	A	A	A	A	A	A	A	
	PCI BoX connection card	MC-0JPC11	-	MCX0JPC11	-	A	A	-	A	NA	A	A	A	A	A	NA: Not Available

#1: Windows Server® 2012 R2
#2: Windows Server® 2016
#3: Red Hat® Enterprise Linux® 7(for Intel64)
/ Red Hat® Enterprise Linux® 6(for Intel64)
#4: SUSE® Linux Enterprise Server 12 for AMD64 and Intel64
/ SUSE® Linux Enterprise Server 11 for AMD64 and Intel64
#5: VMware ESXi 6.5 / VMware ESXi 6.0(Update1b and Update2)

Change Report

Date	Order number	Changes
Feb. 8th, 2017		1st Release
Mar. 31st, 2017		2nd Release
Aug.8th, 2017		3rd Release
		-Added description of length restriction on the 10GBASE-CR(Twinax) cable.
		-PCIe SSD Cards (P3700) were deleted due to its EOL.