PRIMERGY RX1330 M6 Rack server





Chapter	Folder	Content			
	Cover	List of content, Instructions for usage of this configurator, abbreviations			
	Description	System Description for easier understanding			
1	Base	describes base unit of RX1330 M6, HDD cage kits			
2	Dase	describes rack mount kits and services			
3	CPU	Order code and Infos of processors			
4	RAM	DDR5 System memory (RAM)			
5	GFX	Graphics-cards			
6	HD_cage	none			
7	RAID	SAS / RAID Controller and components			
8	ODD	optical disk drives (DVD, DVD-rw, Blu ray)			
9	Backup	none			
10	HD_SSD	Storage drives - PCIe SSD - SAS/SATA SSD & HDD			
11		LAN Components			
12	LAN_FC_IB	Fibre Channel Controller			
13		Infiniband Controller (n.a. for RX1330 M6)			
14	PSU	Power supply units, power cables, country specific opt.			
15	USB_devices	none			
16	others	System Management, ATD, RS232 port, TPM module, FH-Riser			

Instructions

This document contains basic product and configuration information that supports you in more complicated configurations.

In any case we recommend to use the WebArchitect to make sure, that you configure a valid system.

This System configurator is divided into several chapters. They are identical to the current price list and WebArchitect.

Please follow this document step by step from the top to the bottom.

Chapter xx - description of chapter

Text fields with grey color offer extra information for related topics (e.g prerequesites, technical back ground, configuration rules, limitations, ...

For example:

S26361-F4610-E2 S26361-F4610-L3

PLAN 2x1Gb Ethern. Controller

i350-T2 chip (based on Intel Powerville) offers 2x1Gb RJ45 connectors

PCIe Gen2 x4 full height card

max. 6x per system

<-- order code E-part (bold)

- <-- order code L-part (bold)
- <-- "name" of this part
- <--description of this part, in same cases as well description of content
- <--requires a free PCIe slot --> means total amount of PCIe slots reduced
- $\mbox{<--indicates}$ how often this part can be configured in the related Server

PYBVAP04

PY-VAP04

Front VGA connector (15-pin)

Front VGA connector (15-pin) including cable and front connector

Not for 10x3.5", 32xEDSFF Base unit

max. 1x per system

- <-- "PYB" order code (bold) for BTO(Built to Order) part
- <-- "PY-" order code (bold) for Loose delivery part
- <-- "name" of this part
- $\dot{\mbox{\sc c}}$ --description of this part, in same cases as well description of content
- <-- Limitation for this part
- <--indicates how many this part can be configured in the related Server

For further information see:

Link to datasheet:

https://sp.ts.fujitsu.com/dmsp/Publications/public/ds-py-rx1330-m6-en.pdf

https://www.fujitsu.com/global/products/computing/servers/primergy/index.html (internet)

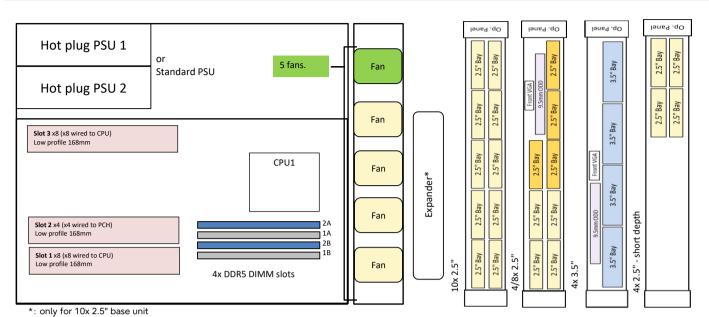
https://extranet.ts.fujitsu.com/com/tools/configure/server/Pages/default.aspx (extranet)

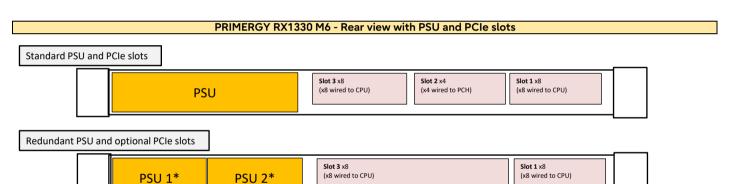
Fujitsu is providing the content of this document with very high accuracy. In case you identify a mistake, we would kindly encourage you to inform us. We kindly ask for understanding, that errors still may occur and that Fujitsu may change this document without notice

Abbreviations

SAS	Drives, RAID	Serial attached SCSI Device (HDD, SSD, LTO drives); SAS3.0 = 12GBit/s; SAS4.0 = 24GBit/s
SATA	Drives, RAID	Serial ATA (HDD, SSD) current SATA speed = 6GBit/s
HDD	Drives	Hard disk drive (Non volatile storage device), 2.5" (SFF) or 3.5" (LFF)
SSD	Drives	Solid state disk (Non volatile storage device), 2.5" (SFF)
SFF	Drives	small form factor (=2.5")
LFF	Drives	large form factor (=3.5")
CPU	Processor	central processing unit ("processor")
RAID	Drives, RAID	RAID 0 = max speed, RAID 1 = mirroring, RAID 5 = 1 out of x drives is spare
storage tiering	RAID	offers optimized storage allocation (fast area for "hot data"; slower area for "cold data")
hot data	Drives	Data which are currently being processed
cold data	Drives	Data which are currently not processed (only stored)
ODD	Drives	optical disk drive (i.e. DVD-player, DVD-burner, Blu ray player, blu ray burner)
OS	operating system	OS=operating system - required for running, organize and administrating the server
E-Part	"Einbau-Part"	"e.g. S26361-F1234- <u>E</u> 240" ordercode with "E" means it is either integrated into to Server (CPU, Mem,) or integrated in the shipping box /Keyboard, Mouse,)
L-Part	"Lose Lieferung-Part"	"e.g. S26361-F1234- <u>L</u> 240" ordercode with "L" means, the part will be shipped with extra package, may be as well with extra shipment

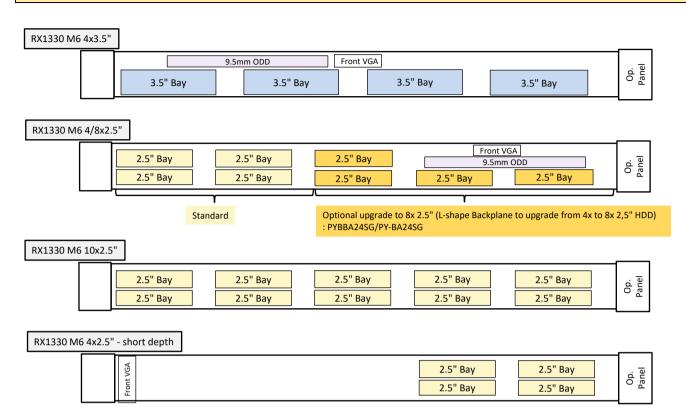
PRIMERGY RX1330 M6 schematics of the System board and fans





*:Option

PRIMERGY RX1330 M6 - Front view



recommended components for RX1330 M6	#
embedded Lifecycle Management (eLCM)	1x

Chapter 1 - base unit

Start

Power supply units & cooling

The PRIMERGY RX1330 M6 offer fixed standard 400W power supply with 94% efficiency or bays for 1x or 2x hot plug (opt. redundant) power supply units of 500W/900W with up to 96% efficiency. The PRIMERGY RX1330 M6 is equipped non-hot plug fans (4+1 for redundant).

iRMC S6 (integrated Remote Management Controller) on-board with dedicated (or shared) 10/100/1000 Service LAN-port and integrated graphics controller. With the integrated onboard indicators and controls You can highlight easily failed components via LEDs. The LEDs can be displayed during service even without mains connection by simply pressing the "indicate CSS" button.

Fujitsu Systemboard D4133 based on Chipset Intel® C266

> Xeon E2400 series CPUs and Pentium CPU

Slots: as standard 3 PCIe slots are on Board - please see schematics in "description"

3 PCIe slots low profile, 168 mm length, all are mechanically x8

Slot 1 PCIe-Gen5 x8 - supports modular RAID functions, routed to CPU

Slot 2 PCIe-Gen4 x4. routed to PCH

Slot 3 PCIe-Gen5 x8, routed to CPU

The required riser cards for the above configuration are part of the standard delivery.

Slot 3 can also be upgraded to PCIe Gen5 x8 full height, 168mm length (!Slot 2 and it's riser is not available in this case!)

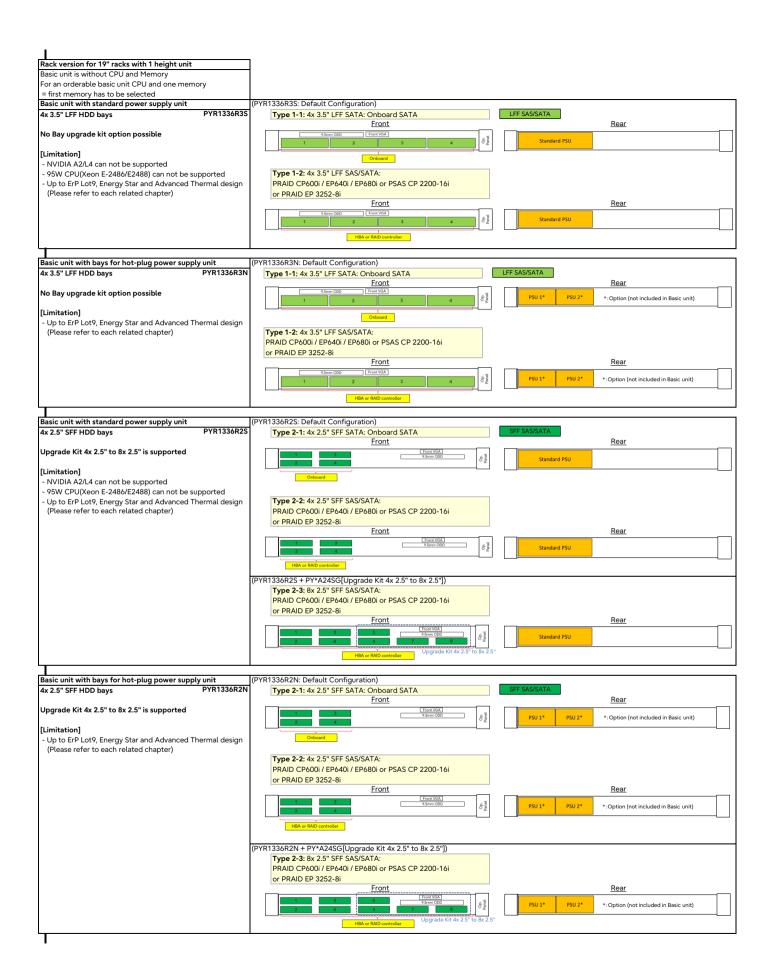
Onboard RAID(Intel VROC(SATA RAID)) 0/1/10 6Gbit/s available for SATA drives System RAM up to DDR5-4400 MT/s

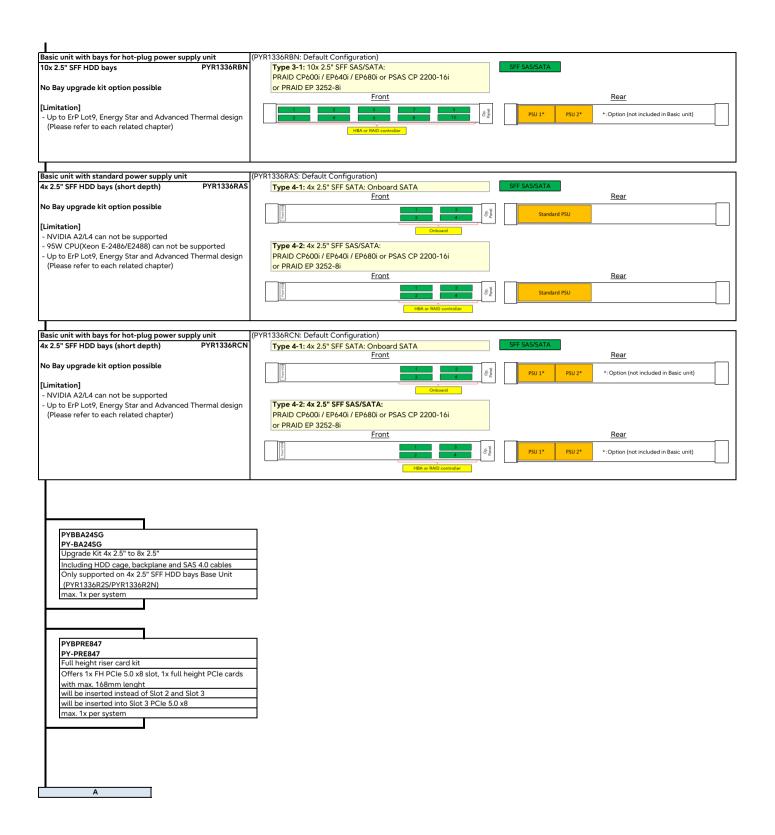
2x2 memory slots for max. 128GB* DDR5 RAM available, Please see folder "CPU" and "RAM" for further details.

Software

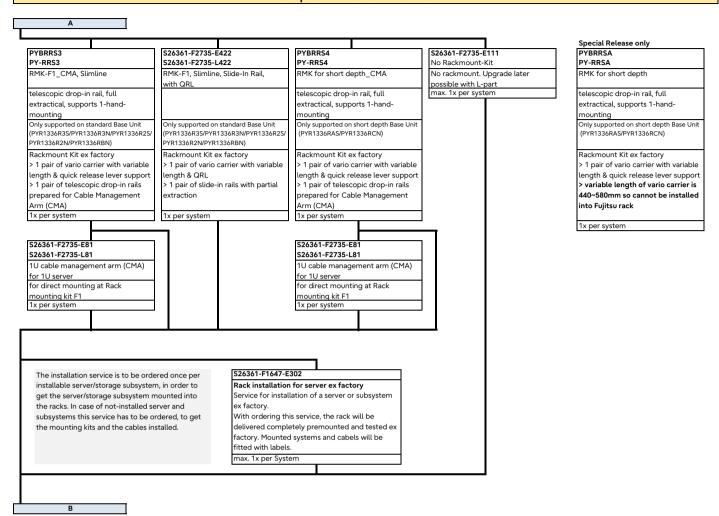
ServerView Suite Software incl. ServerView Installation Manager, Management Software and Updates is optional available

Connectivity					
Interfaces at rear side	Interfaces at front				
-1 service LAN RJ45 (1 Gbit)	for base units with up to 8x drives: 2x USB 3.2 Gen1 Type A (on "ear"),				
- 1x VGA (15 pins)	1x USB3.2 Gen2x2 Type C				
- 4x USB 3.2 Gen1 Type A	for base units with 10 drives: 2x USB 3.2 Gen1 Type A (on "ear")				
- 2x 1GbE LAN	Interfaces internal				
	- 2x M.2 (80mm and 110mm)modules: 1x SATA/NVMe(PCIe x4) and 1x SATA				
	- 4x SATA 6G for HDD				
	- 1x SATA 6G for ODD				





Chapter 2 - Rack architecture



Chapter 3- CPU

В

One of following CPU's has to be selected for an orderable basic unit (max 1x)

Pentium (Alder Lake)		order code	order code	
64-bit Intel Pentium pr	rocessor supporting DDR5 @ 4800MT/s	(BTO) (Loose delivery)		
Pentium Gold G7400	2C/4T 3.7GHz 6MB 4800MT/s 46W	PYBCP67C1	-	٦
Xeon E-24xx (Raptor L	ake-E)	order code	order code	
64-bit Intel Xeon proce	essor supporting DDR5 @ 4800MT/s	(BTO)	(Loose delivery)	
Xeon E-2414	4C/4T 2.6GHz 12MB 4800MT/s Turbo 55W	PYBCP67E7	-	7
Xeon E-2434	4C/8T 3.4GHz 12MB 4800MT/s Turbo 55W	PYBCP67E8	-	7
Xeon E-2436	6C/12T 2.9GHz 18MB 4800MT/s Turbo 65W	PYBCP67E1	-	7
Xeon E-2456	6C/12T 3.3GHz 18MB 4800MT/s Turbo 80W	PYBCP67E2	-	7
Xeon E-2486	6C/12T 3.5GHz 18MB 4800MT/s Turbo 95W	PYBCP67E3	-	**
Xeon E-2468	8C/16T 2.6GHz 24MB 4800MT/s Turbo 65W	PYBCP67E4	-	7
Xeon E-2478	8C/16T 2.8GHz 24MB 4800MT/s Turbo 80W	PYBCP67E5	-	7
Xeon E-2488	8C/16T 3.2GHz 24MB 4800MT/s Turbo 95W	PYBCP67E6	-	**

^{**)} Not supported on base unit with Std. Powersupply (PYR1336R3S, PYR1336R2S, PYR1336RAS)

Chapter 4 - DDR5 System memory

С

There are 2 memory banks with 2 DIMM slots each.

Single channel memory configuration allow maximum flexibility:

Additional memory can be configured as single memory modules.

Dual channel memory configurations for maximum performance:

For optimum performance memory has to be configured in pairs of memory modules with identical size.

The memory speed depends on memory configuration:

Single channel memory configuration : max. 4,400 MT/s Dual channel memory configuration(1R): max. 4,000 MT/s Dual channel memory configuration(2R): max. 3,600 MT/s

Max. 128GB unbuffered DDR5 RAM for UDIMMs with 32GB moduls

Memory module is not included in the base unit and has to be configured min 1x memory modules.

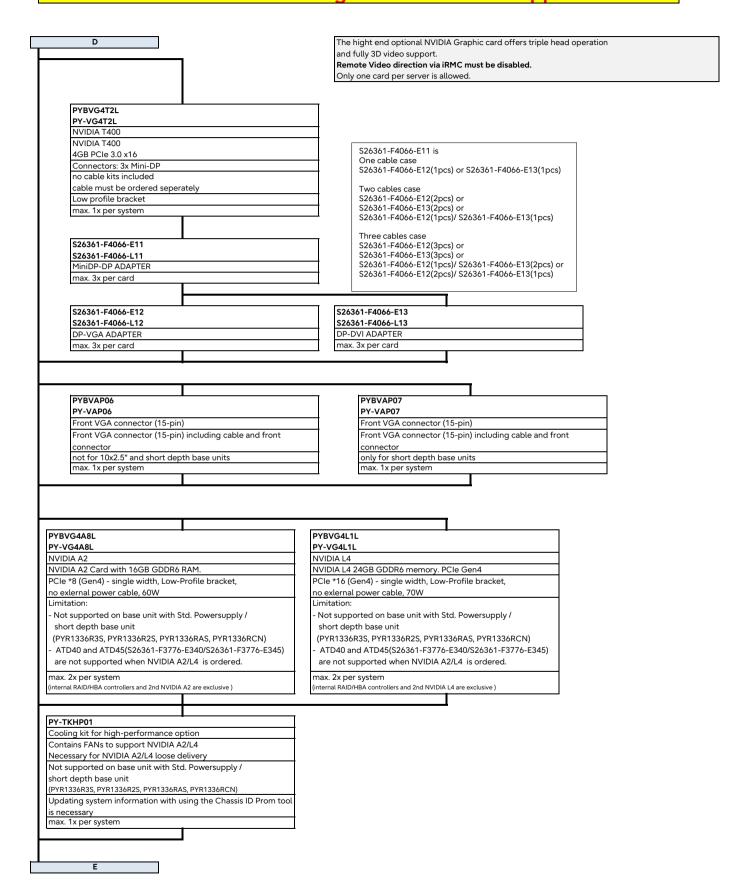
All memory module installing in one system must be identical.

Any mix of different memory modules with different order code is not supported.

16GB DDR5 Unbuffered DIMM 4800MT/s 1R x8		order code (BTO)	order code (loose delivery)
16GB (1x16GB) 1Rx8 DDR5-4800 U ECC	single rank	PYBME16UH	PY-ME16UH
32GB DDR5 Unbuffered DIMM 4800MT/s 2R x8	order code (BTO)	order code (loose delivery)	
32GB (1x32GB) 2Rx8 DDR5-4800 U ECC	dual rank	PYBME32UH	PY-ME32UH
min 1x / max 4x for System			

Chapter 5 - Graphics cards

The different GPU mixed configuration does not support.



Chapter 7 - SAS / RAID Controller

- See pictures in "Chapter 1 - base unit" for details of combinations - internal RAID/HBA controllers and 2nd NVIDIA A2/L4 are exclusive

onboard SATA controller with SW-RAID

max number of drives depends on base units

PYBSR4FAL

PY-SR4FA

onboard controller for SATA HDD or SSD drives

SW-RAID 0, 1, 10 6Gb/s SATA Intel VROC (SATA RAID) based on chipset 1x onboard, included No Cache

internal HBA and RAID controller, no 2nd Level cache

internal RAID / HBA controllers for SAS, SATA HDD or SSD drives

PRAID CP600i LP No Cache RAID 0, 1, 10

8 ports 3. 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander

supports SED (Self Encrypting Drives)

requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3808

internal RAID / HBA controllers for SAS, SATA HDD or SSD drives

1x PYBSC4MA1L PY-SC4MA1 PSAS CP 2200-16i LP HBA + RAID 0, 1, 10, 5 No Cache

16 ports 6, 12 & 24Gb/s SAS/SATA HDD/SSD, supports up to 16 SAS/SATA drives without expander

requires 1x LP PCIe 4.0 x8 (int.) slot

internal RAID controller with 2nd Level cache

internal RAID controllers for SAS, SATA HDD or SSD drives

PRAID EP640i LP 1x PYBSR4C63L PY-SR4C63 RAID 0. 1. 10. 5. 50. 6. 60 4GB Cache

8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander

supports SED (Self Encrypting Drives)

requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3908

PRAID FP680i I P RAID 0 1 10 5 50 6 60 PYBSR4C6I PY-SR4C6 8GB Cache

16 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 16 SAS/SATA drives without expander

supports SED (Self Encrypting Drives)

requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3916

optional Flash Backup Unit (FBU)

S26361-F4042-E183 S26361-F4042-L110 FBU option for PRAID EP6xx: Supercap securing the power supply of the RAID controller in case of power failure including cable with 83cm length

(for standard model: PYR1336R3S, PYR1336R3N, PYR1336R2S, PYR1336R2N, PYR1336R3N)

FBU option for PRAID EP6xx: Supercap securing the power supply of the RAID controller in case of S26361-F4042-E155 S26361-F4042-L110

power failure including cable with 55cm length (for short depth model: PYR1336RAS_PYR1336RCN)

internal RAID controllers for SAS, SATA HDD or SSD drives

PY-SR4MA1 PRAID EP 3252-8i LP 2GB Cache RAID 0, 1, 10, 5, 50, 6, 60 1x PYBSR4MA1L

8 ports 6, 12 & 24Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander

supports SED (Self Encrypting Drives)

equires 1x LP PCIe 4.0 x8 (int.) slot optional Flash Backup Unit (FBU)

FBU option for PRAID EP 325x: Supercap securing the power supply of the RAID controller in case of PYBFBM013 PY-FBM01 power failure including cable with 80cm length

(for standard model: PYR1336R3S, PYR1336R3N, PYR1336R2S, PYR1336R2N, PYR1336RBN)

FBU option for PRAID EP 325x: Supercap securing the power supply of the RAID controller in case of PYBFBM012 PY-FBM01 power failure including cable with 46cm length (for short depth model)

(for short depth model: PYR1336RAS, PYR1336RCN)

up to 1x FBU can be integrated per System

 ${\bf Cable\ kit\ for\ upgrade\ cards: For\ upgrade\ L-parts\ RAID/HBA\ controller\ card,\ L-parts\ Cable\ kit\ is\ required.}$

Cable Kit for EP6xxi/CP6xxi/EP325x/CP2200 for standard base units: PY-CBS116

Cable Kit for EP6xxi/CP6xxi/EP325x/CP2200 for short depth base units: PY-CBS117

external HBA controller, no 2nd Level cache

external HBA controllers for SAS HDD or SSD drives

2x PYBSC4FAEL HBA, no RAID PY-SC4FAE

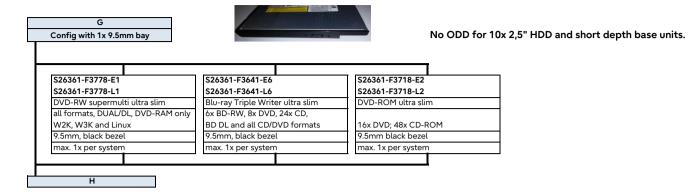
16 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, 4x SFF8644 (external Mini-SAS HD)

requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3816

G

Chapter 8 - ODD optical disk drives

The base units with up to $8x\ HDD$ offer $1x\ 9.5mm$ optical drive bay



Chapter 10 - storage drives

SATA drives can be connected to the onboard Controller (max. 4x), or require a dedicated SAS / RAID Controller.

SAS drives require a dedicated SAS / RAID Controller. PCIe-SSDs require a dedicated RAID Controller.

FIPS and SED drives are Self Encrypting Drives, and they require either a RAID controller with SED support or an HBA and in addition a software instance, supporting SED Key Management. It is strongly recommended to order a RAID controller with SED function for SED/FIPS drives.

SATA, SAS and PCIe drives can be mixed based on RAID spec, but cannot be used in one logical RAID volume. FIPS and SED drives can be mixed based on RAID spec, but cannot be used in one logical RAID volume. One logical RAID volume must be created the same order code products.

Hard Disk Sector Format Information: 512n HDD: 512 byte sectors on the drive media.

512e (e-emulation) HDD: 4K physical sectors on the drive media with 512 byte logical configuration.

DWPD: Drive Writes Per Day over 5 years.

When using SSDs with VMware ESXi, select the SSDs that meet the endurance requirement described in KB2145210 below. https://kb.vmware.com/kb/2145210

HDD Classes:

Economic (ECO) SATA: Entry Class Drives, for non critical applications.

Business-Critical (BC) -SATA=Nearline SATA Enterprise Drives / 7.2Krpm, SATA 6G.

Business-Critical (BC) -SAS=Nearline SAS Enterprise Drives / 7.2Krpm, SAS 12G.

Mission-Critical (MC)=SAS 10K and SAS 15K Enterprise Drives with max. performance and reliability.

 $\frac{\text{Warranty:}}{\text{SSD and SATA DOM have a built-in Wear-Out indicator. In this case the warranty for such a component, as an arrange of the such a component of the such a component of the such as a such a component of the such as a su$ exception to the system warranty, is restricted to the time period until the indicator reaches the exhaust level.

2.5" (SFF) SATA SSD

SSD SATA 2	5" Miyed Use (SFF) Enternrise wi	th hot plug/hot repla	co trav					
	sung PM897a driv	, ,	urnot plog/not repla	ce tray					
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part		
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBSS48NKS	PY-SS48NKS		
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBSS96NKS	PY-SS96NKS		
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBSS19NKS	PY-SS19NKS		
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBSS38NKS	PY-SS38NKS		
This SSDs can	This SSDs can be used as Non-SED drives, but it requires a RAID controller with SED support for using as SED drives.								
may Ay or 10y	- depending on h	hase unit & configu	iration						

SSD SATA 2	5" Mixed Use (SFF) Enternrise wi	th hot plug/hot repla	ce trav					
SSD SATA 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray based on Samsung PM897 drives									
			F	DWPD					
Capacity	Formfactor	Interface	Endurance	DVVPD	order code E-part	order code L-part			
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	PYBSS48NKQ	PY-SS48NKQ			
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	PYBSS96NKQ	PY-SS96NKQ			
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	PYBSS19NKQ	PY-SS19NKQ			
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	PYBSS38NKQ	PY-SS38NKQ			
max. 4x or 10x	- depending on I	base unit & config	uration						

SSD SATA 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray								
based on Micr	on 5400 MAX driv	/es						
Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part		
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0	PYBSS48NQ	PY-SS48NC		
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0	PYBSS96NQ	PY-SS96NC		
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0	PYBSS19NQ	PY-SS19NC		
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,5	PYBSS38NQ	PY-SS38NG		
may Ay or 10y	- depending on h	ase unit & config	uration					

	sung PM893a driv	<u> </u>	se with hot plug/hot re	epiace tray			
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBSS48NME	PY-SS48NME
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBSS96NME	PY-SS96NMI
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBSS19NME	PY-SS19NMI
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBSS38NME	PY-SS38NMI
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBSS76NME	PY-SS76NMI
This SSDs can	be used as Non-S	ED drives, but it re	equires a RAID control	ler with SEI	Support for using a	s SED drives.	
max 4x or 10x	- depending on b	pase unit & configu	ration				

SSD SATA 2.	5" Read Intensi	ve (SFF) Enterpri	se with hot plug/hot re	eplace tray				
based on Samsung PM893 drives								
Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part		
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	PYBSS24NMD	PY-SS24NMD		
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	PYBSS48NMD	PY-SS48NMD		
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	PYBSS96NMD	PY-SS96NMD		
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	PYBSS19NMD	PY-SS19NMD		
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	PYBSS38NMD	PY-SS38NMD		
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	PYBSS76NMD	PY-SS76NMD		
max. 4x or 10x	- depending on b	oase unit & config	uration		·			

ased on Micr	on 5400 PRO driv	es es				
Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5	PYBSS24NME	PY-SS24NM
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5	PYBSS48NMF	PY-SS48NN
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5	PYBSS96NMF	PY-SS96NN
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5	PYBSS19NMF	PY-SS19NN
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,2	PYBSS38NMF	PY-SS38NN
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,6	PYBSS76NMF	PY-SS76NN

2.5" (SFF) Hard drives

HDD SAS 2.5	HDD SAS 2.5" 10K 512n (SFF) Enterprise Mission Critical with hot plug/hot replace tray								
Capacity	RPM	Interface	Sector	order code E-part	order code L-part				
300GB	10 000	SAS 12Gb/s	512n	PYBSH301EB	PY-SH301EB				
600GB	10 000	SAS 12Gb/s	512n	S26361-F5729-E160	S26361-F5729-L160				
1.2TB	10 000	SAS 12Gb/s	512n	S26361-F5729-E112	S26361-F5729-L112				
max. 4x or 10x	- depending on l	base unit & confid	uration						

HDD SAS 2.5	HDD SAS 2.5" 10K 512e (SFF) Enterprise Mission Critical with hot plug/hot replace tray								
Capacity	RPM	Interface	Sector	order code E-part	order code L-part				
1.8TB	10 000	SAS 12Gb/s	512e	S26361-F5730-E118	S26361-F5730-L118				
2.4TB	10 000	SAS 12Gb/s	512e	S26361-F5543-E124	S26361-F5543-L124				
max. 4x or 10x	- depending on b	oase unit & config	uration						

3.5" (LFF) SATA SSD

CCD CATA 2	E!! Missad I las /	EE/ 3 EII CCD E-+-			+				
			rprise with 3.5" hot plug	g/not repla	се тгау				
based on Samsung PM897a drives									
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part		
480GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBTS48NK9	PY-TS48NK9		
960GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBTS96NK9	PY-TS96NK9		
1.92TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBTS19NK9	PY-TS19NK9		
3.84TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBTS38NK9	PY-TS38NK9		
This SSDs can	be used as Non-S	ED drives, but it r	equires a RAID controll	er with SED	D support for using as SED di	rives.			

max. 4x - depending on base unit & configuration

SSD SATA 3.	5" Mixed Use (L	.FF) 2.5" SSD Enter	prise with 3.5" hot pl	ug/hot repla	e tray				
based on Samsung PM897 drives									
Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part			
480GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	PYBTS48NK8	PY-TS48NK8			
960GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	PYBTS96NK8	PY-TS96NK8			
1.92TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	PYBTS19NK8	PY-TS19NK8			
3.84TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	PYBTS38NK8	PY-TS38NK8			
max. 4x - depe	nding on base ur	nit & configuration							

SSD SATA 3.	SSD SATA 3.5" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray									
based on Micron 5400 MAX drives										
Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part				
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0	PYBTS48NKA	PY-TS48NKA				
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0	PYBTS96NKA	PY-TS96NKA				
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0	PYBTS19NKA	PY-TS19NKA				
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,5	PYBTS38NKA	PY-TS38NKA				
max. 4x - depe	nding on base ur	nit & configuration			·					

SSD SATA 3.	5" Read Intensi	i ve (LFF) 2.5" SSD	Enterprise with 3.5" h	ot plug/hot	t replace tray		
based on Sam	sung PM893a driv	/es					
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
480GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBTS48NMB	PY-TS48NMB
960GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBTS96NMA	PY-TS96NMA
1.92TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBTS19NMA	PY-TS19NMA
3.84TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBTS38NMA	PY-TS38NMA
7.68TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBTS76NMA	PY-TS76NMA
This SSDs can	be used as Non-S	ED drives, but it re	equires a RAID control	ler with SEI	Support for using	g as SED drives.	
max. 4x - depe	ending on base ur	nit & configuration					

ased on Sam	sung PM893 drive	es				
Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part
240GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	PYBTS24NM9	PY-TS24NM
480GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	PYBTS48NM9	PY-TS48NM
960GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	PYBTS96NM9	PY-TS96NM
1.92TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	PYBTS19NM9	PY-TS19NM
3.84TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	PYBTS38NM9	PY-TS38NM
7.68TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	PYBTS76NM9	PY-TS76NM

SSD SATA 3.	5" Read Intensi	ve (LFF) 2.5" SSE	Enterprise with 3.5" h	not plug/hot	replace tray				
based on Micron 5400 PRO drives									
Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part			
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5	PYBTS24NMB	PY-TS24NMB			
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5	PYBTS48NMC	PY-TS48NMC			
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5	PYBTS96NMB	PY-TS96NMB			
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5	PYBTS19NMB	PY-TS19NMB			
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,2	PYBTS38NMB	PY-TS38NMB			
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,6	PYBTS76NMB	PY-TS76NMB			
max. 4x - depe	ending on base ur	nit & configuration							

				hot plug/hot replace tray	
Capacity	RPM	Interface	Sector	order code E-part	order code L-part
2TB	7 200	SAS 12Gb/s	512n	PYBCH2T7G6	PY-CH2T7G
4TB	7 200	SAS 12Gb/s	512n	PYBCH4T7G6	PY-CH4T7G
max. 4x - depe	nding on base ι	unit & configuration			
HDD SAS 3.5	" 7.2K 512e (L	FF) Enterprise Busin	ness Critical with	n hot plug/hot replace tray	
Capacity	RPM	Interface	Sector	order code E-part	order code L-part
6TB	7 200	SAS 12Gb/s	512e	PYBCH6T7BA	PY-CH6T7B/
8TB	7 200	SAS 12Gb/s	512e	PYBCH8T7B9	PY-CH8T7B
12TB	7 200	SAS 12Gb/s	512e	PYBCHCT7B8	PY-CHCT7B
14TB	7 200	SAS 12Gb/s	512e	PYBCHET7B8	PY-CHET7B
16TB	7 200	SAS 12Gb/s	512e	PYBCHGT7B5	PY-CHGT7B
18TB	7 200	SAS 12Gb/s	512e	PYBCHJT7B2	PY-CHJT7B:
20TB	7 200	SAS 12Gb/s	512e	PYBCHLT7B	PY-CHLT7
	nding on base i	unit & configuration			
max. 4x - depe	naing on base t	onit a configuration			
max. 4x - depe		<u> </u>			
J		J			
J HDD SATA 3.	5" 7.2K 512n	(LFF) Enterprise Bu		ith hot plug/hot replace tray	and a code la port
J HDD SATA 3. Capacity	5" 7.2K 512n RPM	(LFF) Enterprise Bu	Sector	order code E-part	order code L-part
J HDD SATA 3.	5" 7.2K 512n	(LFF) Enterprise Bu			order code L-part PY-BH2T7B/ PY-BH4T7B/

M.2 SSD

M.2 drive for VMware ESXi and for other OSs cannot be mixed M.2 SATA and M.2 PCle drive cannot be mixed

SSD SATA M.2 drive for booting, non hot-plug, for VMware ESXi
based on Micron 5400 PRO drives

Capacity Formfactor Interface Category order code E-part order code L-part
240GB M.2 SATA 6Gb/s Boot PYBMF24NVD PY-MF24NVD

M.2 drive is designed for use as a VMware ESXi boot drive.

2x M.2 drive for any Hypervisor by the onboard chipset Software RAID is not supported.

max. 1x per Server, in case M.2 drive is installed in connector located on Motherboard (please see folder "description"). VMware ESXi is only supported.

2x M.2 drives required; in case M.2 drives are used with PDUAL CP300

SSD SATA M.2 drive for booting, non hot-plug pased on Micron 5400 PRO drives Capacity DWPD Formfactor Interface order code E-part order code L-part Category PYBMF24YN5 240GB M 2 SATA 6Gb/s 1.5 Boot PY-MF24YN5 Boot 480GB M 2 SATA 6Gb/s 1.5 PYBMF48YN5 PY-MF48YN5 M.2 2280 960GB SATA 6Gb/s 1.5 Boot PYBMF96YN PY-MF96YN

M.2 drive is designed for use as a boot drive with the Endurance Spec. above.

2x M.2 drive for any Hypervisor by the onboard chipset Software RAID is not supported.

max. 2x per Server; in case M.2 drive is installed in connector located on Motherboard (please see folder "description"). VMware is not supported.

2x M.2 drives required; in case M.2 drives are used with PDUAL CP300.

SSD PCIe M.2 drive for booting, non hot-plug based on Micron 7450 PRO drives DWPD Capacity Formfactor Interface Category order code E-part order code L-part 480GB M 2 2280 PCle4.0 x4 0.9 Boot PYBBS48PEA PY-BS48PFA 960GB M.2 2280 PCle4.0 x4 PYBBS96PEA PY-BS96PEA 0,9 Boot M.2 drive is designed for use as a boot drive with the Endurance Spec. above.

max. 1x per Server; connector located on Motherboard (please see folder "description").

2x M.2 drives required; in case M.2 drives are used with PDUAL CP300.

Not supported on base unit with Std. Powersupply (PYR1336R3S, PYR1336R2S, PYR1336RAS)

short depth base unit (PYR1336RCN) support only BTO(E-part), not support Loose delivery(L-part)

PY-TKHP01

Cooling kit for high-performance option

Contains FANs to support SSD PCIe M.2 drive

Necessary for SSD PCIe M.2 drive loose delivery except for PYR1336RCN

Not supported on base unit with Std. Powersupply / short depth base unit (PYR1336R3S, PYR1336R2S, PYR1336RAS, PYR1336RCN)

Updating system information with using the Chassis ID Prom tool is necessary

Dual M.2

PDUAL CP300 and M.2 drive on Motherboard cannot be mixed

 PDUAL CP300, dual M.2 for booting, non hot-plug

 Capacity
 Formfactor
 Interface
 Category
 order code E-part
 order code L-part

 n/a
 AIC
 PCIe
 Boot
 LP
 PYBDMCP35L
 PY-DMCP35

 PDUAL CP300 is a carrier of 2x SSD SATA or PCIe
 M.2 drives, which offers RAID1 with the 2x SSD M.2 drives.
 PV-DMCP35

PDUAL CP300 is designed for use as a hardware-mirrored (RAID1) boot device for Hypervisor, which cannot be supported by M.2 via the onboard chipset Software RA

Supported RAID levels : RAID1 and 0 (optional), 2x same type of SSD M.2 drives need to be ordered separately

 $Supported M.2\ drives: SSD\ SATA\ M.2\ 240GB/480GB/960GB\ or\ 240GB\ for\ VMware\ ESXi.\ (PY*MF24YN5/PY*MF48YN5/PY*MF96YN\ or\ PY*MF24NVD)\ or\ PY*MF24NVD)$

SSD PCIe M.2 480GB/960GB. (PY*BS48PEA/PY*BS96PEA) [SSD PCIe M.2 is only available for base unit with Red. Powersupply]

max. 1x per Server, requires 2x SSD M.2 drives.

max. 1x per system

RAID PRESET option

Component
order code E-part
order code L-part
pre-config. RAID1 Array for M.2 in PDUAL
This option allows pre-configuration of 2x M.2 modules to a RAID1 Array with PDUAL CP300 ex factory.

max. 1x per Server, requires 1x PDUAL CP300.

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Chapter 11 - Communications / Ethernet Network Components

PRIMERGY RX1330 M6 provides default Intel LAN on Motherboard:

- 2x Controller Intel I210 1000BASE-T, provides
- 2x Controller The (1210-10006ASE-1, provides)
 2x RJ45 ports, 10M/100M/1G autonegotiate for 10M/100M/1G capable Ethernet network infrastructure
 Wake-On LAN supported on both ports
 PXE and iSCSI boot support

- Maximum one port can be configured as a **shared** Management LAN port

Network PCIe Adapters

PLAN CP BCM5719-4P 4X 1000BASE-T PCIe LP	2x	Broadcom, 1GTx4port	PYBLA284L	PY-LA284
nax. 2x adapters per system		втопасотт, тотх-ротс	1 I BEAZOTE	11 5/204
axi zx adaptero per oyutern				
tel 1GbE BEASE-T for PCIe				
LAN CP 2x1Gbit Cu Intel I350-T2 LP	2x	Intel, 1GTx2port	S26361-F4610-E202	S26361-F4610-L50
LAN CP 4x1Gbit Cu Intel I350-T4 LP	2x	Intel, 1GTx4port	S26361-F4610-E204	S26361-F4610-L50-
nax. 2x adapters per system (both 1350-T2 and 13	50-T4 in t	total)	•	
roadcom 10GbE BEASE-T for PCIe				
LAN EP P210TP 2X 10GBASE-T PCIe LP	2x	Broadcom, 10GTx2port	PYBLA3K2L	PY-LA3K2
nax. 2x adapters per system				
ntel 10GbE BEASE-T for PCIe				
PLAN EP X710-T2L 2x10GBASE-T LP	2x	Intel, 10GTx2port	PYBLA342L	PY-LA342
PLAN EP X710-12L 2X10GBASE-1 LP	2x	Intel, 10GTx2port	PYBLA344L	PY-LA342 PY-LA344
max. 2x adapters per server system	2.X	inter, 10G1x4port	PTBLA344L	P1-LA344
Tiax. 2x adapters per server system				
Broadcom 10GbE for PCIe				
Dual rate 10G/1G support requires 10G/1G Dual F	Rate SFP+			
Dual rate 10G/1G support requires 10G/1G Dual F All ports on this card need to install the same Pari	Rate SFP+		PYBLA3J2L	PY-LA3J2
Dual rate 10G/1G support requires 10G/1G Dual F All ports on this card need to install the same Pari	Rate SFP+ ts Numbe 2x	r of optical module. Broadcom, 10Gx2port	PYBLA3J2L	PY-LA3J2
Dual rate 10G/1G support requires 10G/1G Dual F All ports on this card need to install the same Part PLAN EP P210P 2x10Gb SFP PCIe LP	Rate SFP+ ts Numbe 2x	r of optical module. Broadcom, 10Gx2port	PYBLA3J2L \$26361-F3986-E3	,
Oual rate 10G/1G support requires 10G/1G Dual F All ports on this card need to install the same Par PLAN EP P210P 2x10Gb SFP PCIe LP Optional, 10Gb SFP+ optical transceiver mod	Rate SFP+ ts Numbe 2x dule, selec	r of optical module. Broadcom, 10Gx2port tt one per cage		S26361-F3986-L3 S26361-F3986-L5
SFP+ Module Multi Mode Fiber 10GbE LC	Rate SFP+ ts Numbe 2x dule, selection	r of optical module. Broadcom, 10Gx2port tone per cage Finisar, 10G SR SFP+	S26361-F3986-E3	PY-LA3J2 S26361-F3986-L3 S26361-F3986-L5 S26361-F3986-L6
Oual rate 10G/1G support requires 10G/1G Dual F All ports on this card need to install the same Par PLAN EP P210P 2x10Gb SFP PCIe LP Optional, 10Gb SFP+ optical transceiver mod SFP+ Module Multi Mode Fiber 10GbE LC SFP+ Transceiver 10G/1G Dual Rate SR	Rate SFP+ ts Numbe 2x dule, selectors 2x	r of optical module. Broadcom, 10Gx2port to ne per cage Finisar, 10G SR SFP+ Intel, 1G/10G SR SFP+	\$26361-F3986-E3 \$26361-F3986-E5	S26361-F3986-L3 S26361-F3986-L5
Oual rate 10G/1G support requires 10G/1G Dual F All ports on this card need to install the same Par PLAN EP P210P 2x10Gb SFP PCIe LP Optional, 10Gb SFP+ optical transceiver mod SFP+ Module Multi Mode Fiber 10GbE LC SFP+ Transceiver 10G/1G Dual Rate SR SFP+ Transceiver 10G/1G Dual Rate LR	Rate SFP+ ts Numbe 2x dule, selectors 2x	r of optical module. Broadcom, 10Gx2port to ne per cage Finisar, 10G SR SFP+ Intel, 1G/10G SR SFP+	\$26361-F3986-E3 \$26361-F3986-E5	S26361-F3986-L3 S26361-F3986-L5
Oual rate 10G/1G support requires 10G/1G Dual F All ports on this card need to install the same Part PLAN EP P210P 2x10Gb SFP PCIe LP Optional, 10Gb SFP+ optical transceiver mod SFP+ Module Multi Mode Fiber 10GbE LC SFP+ Transceiver 10G/1G Dual Rate SR SFP+ Transceiver 10G/1G Dual Rate LR max. 1x per port	Rate SFP+ ts Numbe 2x dule, selectors 2x	r of optical module. Broadcom, 10Gx2port to ne per cage Finisar, 10G SR SFP+ Intel, 1G/10G SR SFP+	\$26361-F3986-E3 \$26361-F3986-E5	S26361-F3986-L3 S26361-F3986-L5
Oual rate 10G/1G support requires 10G/1G Dual Fall ports on this card need to install the same Part PLAN EP P210P 2x10Gb SFP PCIe LP Optional, 10Gb SFP+ optical transceiver mod SFP+ Module Multi Mode Fiber 10GbE LC SFP+ Transceiver 10G/1G Dual Rate SR SFP+ Transceiver 10G/1G Dual Rate LR max. 1x per port max. 2x adapters per system	Rate SFP+ ts Numbe 2x dule, selectors 2x	r of optical module. Broadcom, 10Gx2port to ne per cage Finisar, 10G SR SFP+ Intel, 1G/10G SR SFP+	\$26361-F3986-E3 \$26361-F3986-E5	S26361-F3986-L3 S26361-F3986-L5
Oual rate 10G/1G support requires 10G/1G Dual F All ports on this card need to install the same Part PLAN EP P210P 2x10Gb SFP PCIe LP Optional, 10Gb SFP+ optical transceiver mod SFP+ Module Multi Mode Fiber 10GbE LC SFP+ Transceiver 10G/1G Dual Rate SR SFP+ Transceiver 10G/1G Dual Rate LR max. 1x per port	Rate SFP+ ts Numbe 2x 2x 2x 2x 2x	r of optical module. Broadcom, 10Gx2port to ne per cage Finisar, 10G SR SFP+ Intel, 1G/10G SR SFP+	\$26361-F3986-E3 \$26361-F3986-E5	S26361-F3986-L3 S26361-F3986-L5
Oual rate 10G/1G support requires 10G/1G Dual Fall ports on this card need to install the same Parl PLAN EP P210P 2x10Gb SFP PCIe LP Optional, 10Gb SFP+ optical transceiver mod SFP+ Module Multi Mode Fiber 10GbE LC SFP+ Transceiver 10G/1G Dual Rate SR SFP+ Transceiver 10G/1G Dual Rate LR max. 1x per port max. 2x adapters per system Intel 10GbE for PCIe	Rate SFP+ ts Numbe 2x dule, select 2x 2x 2x per port.	r of optical module. Broadcom, 10Gx2port tt one per cage Finisar, 10G SR SFP+ Intel, 1G/10G SR SFP+ Intel, 1G/10G LR SFP+	\$26361-F3986-E3 \$26361-F3986-E5	S26361-F3986-L3 S26361-F3986-L5
Oual rate 10G/1G support requires 10G/1G Dual R ALL ports on this card need to install the same Part PLAN EP P210P 2x10Gb SFP PCIe LP Optional, 10Gb SFP+ optical transceiver mod SFP+ Module Multi Mode Fiber 10GbE LC SFP+ Transceiver 10G/1G Dual Rate SR SFP+ Transceiver 10G/1G Dual Rate LR max. 1x per port nax. 2x adapters per system Intel 10GbE for PCIe Cach cage consumes 1x optical SFP+ transceiver poul rate 10G/1G support requires 10G/1G Dual Rate 10G/1G Dual Rate 10G/1G Support requires 10G/1G Dual Rate 10G/1G Support requires 10G/1G Dual Rate 10G/1G Dual Rate 10G/1G Support requires 10G/1G Dual Rate	Rate SFP+ ts Numbe 2x dule, select 2x 2x 2x 2x per port. Rate SFP+	r of optical module. Broadcom, 10Gx2port It one per cage Finisar, 10G SR SFP+ Intel, 16/10G SR SFP+ Intel, 1G/10G LR SFP+ Optical Transceiver Modules.	\$26361-F3986-E3 \$26361-F3986-E5	S26361-F3986-L3 S26361-F3986-L5
Oual rate 10G/1G support requires 10G/1G Dual Rull ports on this card need to install the same Part PLAN EP P210P 2x10Gb SFP PCIe LP Optional, 10Gb SFP+ optical transceiver mod SFP+ Module Multi Mode Fiber 10GbE LC SFP+ Transceiver 10G/1G Dual Rate SR SFP+ Transceiver 10G/1G Dual Rate LR max. 1x per port nax. 2x adapters per system Intel 10GbE for PCIe acch cage consumes 1x optical SFP+ transceiver poul rate 10G/1G support requires 10G/1G Dual Rate LR model rate 10G/1G support requires 10G/1G Dual Rate LR nate 10G/1G support requires 10G/1G Dual Rate 10G/1G support requires 10G/1G Dual Rate Inch cage consumes 1x optical SFP+ transceiver poul rate 10G/1G support requires 10G/1G Dual Rate Inch cage consumes 1x optical SFP+ transceiver poul rate 10G/1G support requires 10G/1G Dual Rate Inch cage Consumer 10G/1G	Rate SFP+ ts Numbe 2x dule, select 2x 2x 2x 2x per port. Rate SFP+	r of optical module. Broadcom, 10Gx2port It one per cage Finisar, 10G SR SFP+ Intel, 16/10G SR SFP+ Intel, 1G/10G LR SFP+ Optical Transceiver Modules.	\$26361-F3986-E3 \$26361-F3986-E5	\$26361-F3986-L3 \$26361-F3986-L5 \$26361-F3986-L6
Oual rate 10G/1G support requires 10G/1G Dual Rull ports on this card need to install the same Part PLAN EP P210P 2x10Gb SFP PCIe LP Optional, 10Gb SFP+ optical transceiver mod SFP+ Module Multi Mode Fiber 10GbE LC SFP+ Transceiver 10G/1G Dual Rate SR SFP+ Transceiver 10G/1G Dual Rate LR max. 1x per port nax. 2x adapters per system Intel 10GbE for PCIe acch cage consumes 1x optical SFP+ transceiver poul rate 10G/1G support requires 10G/1G Dual Rate LR model rate 10G/1G support requires 10G/1G Dual Rate LR nate 10G/1G support requires 10G/1G Dual Rate 10G/1G support requires 10G/1G Dual Rate Inch cage consumes 1x optical SFP+ transceiver poul rate 10G/1G support requires 10G/1G Dual Rate Inch cage consumes 1x optical SFP+ transceiver poul rate 10G/1G support requires 10G/1G Dual Rate Inch cage Consumer 10G/1G	Rate SFP+ ts Numbe 2x dule, select 2x 2x 2x 2x per port. Rate SFP+ ts Numbe 2x	r of optical module. Broadcom, 10Gx2port ttone per cage Finisar, 10G SR SFP+ Intel, 1G/10G SR SFP+ Intel, 1G/10G LR SFP+ Optical Transceiver Modules. r of optical module. Intel, 10Gx2port	\$26361-F3986-E3 \$26361-F3986-E5 \$26361-F3986-E6	S26361-F3986-L3 S26361-F3986-L5
oual rate 10G/1G support requires 10G/1G Dual Rate 10G/1G Support requires 10G/1G Dual Rate Part PAN EP P210P 2x10Gb SFP PCIe LP Optional, 10Gb SFP+ optical transceiver mod SFP+ Module Multi Mode Fiber 10GbE LC SFP+ Transceiver 10G/1G Dual Rate SR SFP+ Transceiver 10G/1G Dual Rate LR max. 1x per port nax. 2x adapters per system Intel 10GbE for PCIe ach cage consumes 1x optical SFP+ transceiver publical rate 10G/1G Support requires 10G/1G Dual Rate LR max 1x per port nax. 2x adapters per system	Rate SFP+ ts Numbe 2x dule, select 2x 2x 2x 2x per port. Rate SFP+ ts Numbe 2x	r of optical module. Broadcom, 10Gx2port ttone per cage Finisar, 10G SR SFP+ Intel, 1G/10G SR SFP+ Intel, 1G/10G LR SFP+ Optical Transceiver Modules. r of optical module. Intel, 10Gx2port	\$26361-F3986-E3 \$26361-F3986-E5 \$26361-F3986-E6	\$26361-F3986-L3 \$26361-F3986-L5 \$26361-F3986-L6
Oual rate 10G/1G support requires 10G/1G Dual Fall ports on this card need to install the same Part PLAN EP P210P 2x10Gb SFP PCIe LP Optional, 10Gb SFP+ optical transceiver mode of the property of the prop	Rate SFP+ ts Numbe 2x dule, select 2x 2x 2x 2x per port. tate SFP+ ts Numbe 2x dule, select 2x dule, select	r of optical module. Broadcom, 10Gx2port tt one per cage Finisar, 10G SR SFP+ Intel, 1G/10G SR SFP+ Intel, 1G/10G LR SFP+ Optical Transceiver Modules. r of optical module. Intel, 10Gx2port tt one per cage	\$26361-F3986-E3 \$26361-F3986-E5 \$26361-F3986-E6 \$26361-F3986-E6	\$26361-F3986-L3 \$26361-F3986-L5 \$26361-F3986-L6
Dual rate 10G/1G support requires 10G/1G Dual Rate 10G/1G Support requires 10G/1G Dual Rate Part PLAN EP P210P 2x10Gb SFP PCIe LP Optional, 10Gb SFP+ optical transceiver mod SFP+ Module Multi Mode Fiber 10GbE LC SFP+ Transceiver 10G/1G Dual Rate SR SFP+ Transceiver 10G/1G Dual Rate LR max. 1x per port max. 2x adapters per system Intel 10GbE for PCIe Each cage consumes 1x optical SFP+ transceiver poul rate 10G/1G support requires 10G/1G Dual Fall ports on this card need to install the same Par PLAN EP X710-DA2 2x10Gb SFP+ LP Optional, 10Gb SFP+ optical transceiver mod SFP+ Module Multi Mode Fiber 10GbE LC	Rate SFP+ ts Numbe 2x dule, select 2x 2x 2x 2x per port. Rate SFP+ ts Numbe 2x ulue, select 2x 2x	r of optical module. Broadcom, 10Gx2port to ne per cage Finisar, 10G SR SFP+ Intel, 1G/10G SR SFP+ Intel, 1G/10G LR SFP+ Optical Transceiver Modules. r of optical module. Intel, 10Gx2port to ne per cage Finisar, 10G SR SFP+	\$26361-F3986-E3 \$26361-F3986-E5 \$26361-F3986-E6 \$26361-F3986-E6 \$26361-F3640-E202	\$26361-F3986-L3 \$26361-F3986-L5 \$26361-F3986-L6 \$26361-F3986-L5 \$26361-F3640-L50

ach cage consumes 1x optical SFP28 or SFP+ tr	ansceiver p	er port.		
all ports on this card need to install the same Pa	rts Number	of optical module.		
0G SFP BTO is not available for 25G cards, plea	se select L	parts.		
LAN EP P225P 25Gb 2p SFP28 PCIe LP	2x	Broadcom, 25Gx2port	PYBLA3H2L	PY-LA3H2
Optional, 25Gb SFP28 optical transceiver m	odulo with	C connector, each cage consumes one		
SFP28 25G SR E25GSFP28SRX LC	2x	Intel. 25G SR SFP28	PYBSFPS56	PY-SFPS56
max. 1x per port		mici, 200 Sit Si i 20	1 12311 330	11 311 330
Optional, 10Gb SFP+ optical transceiver mo	dule, each	cage consumes one.		
SFP+ Transceiver 10G/1G Dual Rate SR	2x	Intel, 1G/10G SR SFP+		S26361-F3986-L
SFP+ Transceiver 10G/1G Dual Rate LR	2x	Intel, 1G/10G LR SFP+		S26361-F3986-L
max. 1x per port		•	<u> </u>	
nax. 2x adapters per system				
ntel 25GbE for PCIe				
ach cage consumes 1x optical SFP28 or SFP+ tr	ansceiver p	er port.		
all ports on this card need to install the same Pa		•		
OG SFP BTO is not available for 25G cards, plea		•		
<u> </u>			DVD 4400	PY-LA402
LAN EP E810-XXVDA2 2x25Gb LP	2x	Intel, 25Gx2port	PYBLA402L	PY-LA4U2
Optional, 25Gb SFP28 optical transceiver m			DVP OFFICE (By 05005/
SFP28 25G SR E25GSFP28SRX LC	2x	Intel, 25G SR SFP28	PYBSFPS56	PY-SFPS56
max. 1x per port Optional, 10Gb SFP+ optical transceiver mo	dula aach	rade consumes one		
SFP+ Transceiver 10G/1G Dual Rate SR	2x	Intel, 1G/10G SR SFP+		S26361-F3986-I
SEP+ Transceiver 10G/1G Dual Rate LR	2x	Intel, 1G/10G LR SFP+		S26361-F3986-I
max. 1x per port		mice, 10/100 EN SIT		020001107001
nax. 2x adapters per system				
1				
IVIDIA 25GbE for PCIe				
ach cage consumes 1x optical SFP28 or SFP+ tr	anscoiver n	or port		
all ports on this card need to install the same Pa		•		
OG SFP BTO is not available for 25G cards, plea		•		
00 311 BTO 13 Hot available for 230 cards, pied	JC JCICCI L			Т
PLAN EP MCX6-LX 25Gb 2p SFP28 PCIe LP	2x	NVIDIA, 25Gx2port	PYBLA402L4	PY-LA4024
EAR ET 116/0 EX 2000 2p 311 201 GIC ET	-^	TVIDIA, 200X2port	T T BEATOZET	11 544024
Optional, 25Gb SFP28 optical transceiver m	odule with	LC connector, each cage consumes one.		
SFP28 25G SR E25GSFP28SRX LC	2x	Intel, 25G SR SFP28	PYBSFPS56	PY-SFPS56
SFP28 Transceiver 25G SR MMA2P00-AS LC	2x	NVIDIA, 25G SR SFP28	S26361-F4054-E701	S26361-F4054-L7
max. 1x per port	•	•	•	
Optional, 10Gb SFP+ optical transceiver mo	dule, each			
SFP+ Transceiver 10G/1G Dual Rate SR	2x	Intel, 1G/10G SR SFP+		S26361-F3986-I
SFP+ Transceiver 10G/1G Dual Rate LR	2x	Intel, 1G/10G LR SFP+		S26361-F3986-I
max. 1x per port				

Chapter 12 - Communications / Fibre Channel Components

Fibre Channel PCIe Adapters

32Gb Fibre Channel adapter with LC interface for 50	32Gb Fibre Channel adapter with LC interface for 50 m optical cables (OM4 or OM3)								
PFC EP LPe35002 2x 32Gb LP will be available in CQ2'24	2x	Broadcom, 32GFCx2port	PYBFC422L	PY-FC422					
PFC EP LPe35000 1x 32Gb LP will be available in CQ2'24	2x	Broadcom, 32GFCx1port	PYBFC421L	PY-FC421					
PFC EP QLE2772 2x 32Gb LP	2x	Marvell, 32GFCx2port	PYBFC412L	PY-FC412					
PFC EP QLE2770 1x 32Gb LP	2x	Marvell, 32GFCx1port	PYBFC411L	PY-FC411					
16Gb Fibre Channel adapter with LC interface for 50) m optica	al cables (OM4 or OM3)							
PFC EP LPe31002 2x 16Gb LP will be available in CQ2'24	2x	Broadcom, 16GFCx2port	S26361-F5596-E202	S26361-F5596-L502					
PFC EP LPe31000 1x 16Gb LP will be available in CQ2'24	2x	Broadcom, 16GFCx1port	S26361-F5596-E201	S26361-F5596-L501					
PFC EP QLE2692 2x 16Gb LP	2x	Marvell, 16GFCx2port	S26361-F5580-E202	S26361-F5580-L502					
PFC EP QLE2690 1x 16Gb LP	2x	Marvell, 16GFCx1port	S26361-F5580-E201	S26361-F5580-L501					
max 2 adapters per system (mixed configurations are	e supporte	ed)							

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Chapter 14 - Power supply unit, power cable, certifications, region kits Power supply unit Basic unit with standard Basic unit with bays for hotpower supply unit plug power supply unit nodular redundant Power Supply PSU for redundancy occupies hot plug PSU slot, min. 1 / max. 2x per system 90V-264V; input dropout 10ms/100% load, 47Hz-63Hz nput nominal voltage (AC): 100V-240V, max: PYBPU501 PY-PU501 500W platinum PSU 94% eff Connector type: C13, APAC/JAPAN region only Connector type: C13, nom. 220-240V, max. 180-264V PYBPU503 PY-PU503 500W titanium PSU 96% eff Connector type: C13, APAC/JAPAN region only 900W platinum PSU 94% eff. PYBPU902 PY-PU902 *not support for short depth base units 900W titanium PSU 96% eff. Connector type: C13, nom. 220-240V, max. 180-264V DVRDI 1901 PY-PU901 *not support for short depth base units FJBU: 4 min. backup tir for gracefull shutdown, max 1 per system [Power cord option is not required Fujitsu Battery Unit 380W(peak), 280W(continuous) 12V battery module Dummy module instead PSU [Power cord option is not required] PYBBBG04 PY-BBG04 **Dummy module** for closing the 2nd PSU hole, in case only 1 PSU is equipped, max. 1x per system S26113-F574-E99 Power cord option for Rack Server, 1x per PSU T26139-Y1968-E180 T26139-Y1968-L180 Cable powercord rack, 1.8m, black, IEC 320 C14 -> C13 (10A plug) T26139-Y1968-E250 T26139-Y1968-L250 Cable powercord rack, 2.5m, black, IEC 320 C14 -> C13 (10A plug) T26139-Y1968-E100 T26139-Y1968-L10 Cable powercord rack, 4m, black, IEC 320 C14 -> C13 (10A plug) Cable powercord (USA) 15A, 1.8m, black, NEMA 5-15 connector 498G -> C13 (plug), 15A, , rack or wall T26139-Y1741-E90 T26139-Y1741-L90 T26139-Y1753-E10 T26139-Y1753-L10 Cable powercord (Thailand), 1.8m, rack or wall T26139-Y1757-E10 T26139-Y1757-L10 Cable powercord (Taiwan), 1.8m, rack or wall T26139-Y1740-L10 Cable powercord (D, A, B, F, NL, FIN, N, S, E, P, RUS, TR), 1.8m, grey T26139-Y1744-L10 Cable powercord (UK, IR), 1.8m, grey T26139-Y1745-L10 Cable powercord (I), 1.8m, grey Cable powercord (DK), 1.8m, grey T26139-V1746-I 10 T26139-Y1747-L18 Cable powercord (ISR), 2.5m, black T26139-Y3850-E10 no power cord Std to Redundant PSU Upgrade Kit includes PSU cage and power backplan PY-TKPC04 Region Kits, required to order one of them, 1x per System loose delivery order code build-in order code S26361-F1452-E100 Region Kit APAC/EMEA, Contains warranty sheet and safety instructions for APAC and EMEA S26361-F1452-E130 legion Kit America, Contains warranty sheet, registration hints and safety instructions for America Region Kit Europe, Contains warranty sheet and safety instructions in German, English, French, Spanish, Italiar S26361-F1452-E140 Sales region for EMEIA only) S26361-F1452-E101 (Sales region for APAC only) egion Kit China for CCC ontion required systems. Contains warranty sheet and safety instructions for China Certifications, optional 1x per system build-in order code loose delivery order code Certification for China, (CCC), Reduced component selection possible, only with no power cord option S26361-F3301-E120

Chapter 15 - Accessories

N http://www.fujitsu.com/fts/products/computing/peripheral/accessories/index-facts.html

External USB Optical Disc Drive
Ultra Slim Portable DVD Writer (Hitachi-LG)

S26341-F103-L142

Chapter 16 - others (Energy Star restrictions)

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PYBES21

E-Star Fam1 Certification RX/TX13x0 Mx E-Star Fam1 Limits configuration in accordance with Energy Star 4.0 requirements max. 1x per system

limitations for E-Star Fam1certification.

please make sure to follow the guidelines below in order meet ENERGY STAR V4.0 Fam1 requirements:

Not allowed:

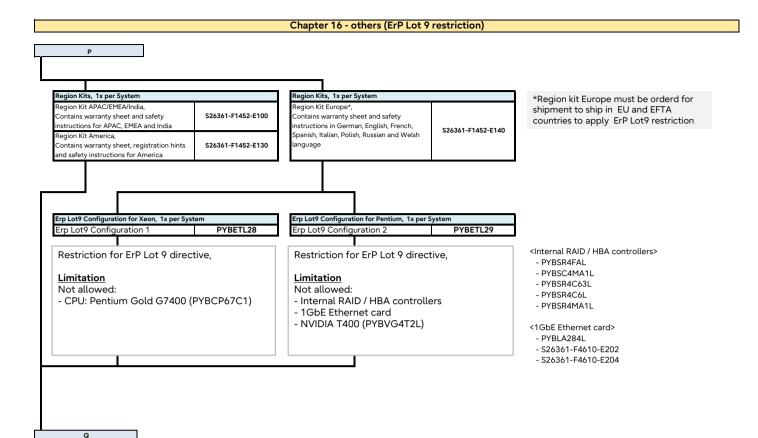
- rvot autowed:
 base unit: 10x 2.5" SFF HDD bays (PYR1336RBN)
 CPU: Pentium Gold G7400 (PYBCP67C1)
 CPU: Xeon E-2414 (PYBCP67E7)
 CPU: Xeon E-2434 (PYBCP67E8)
 Any HDDs

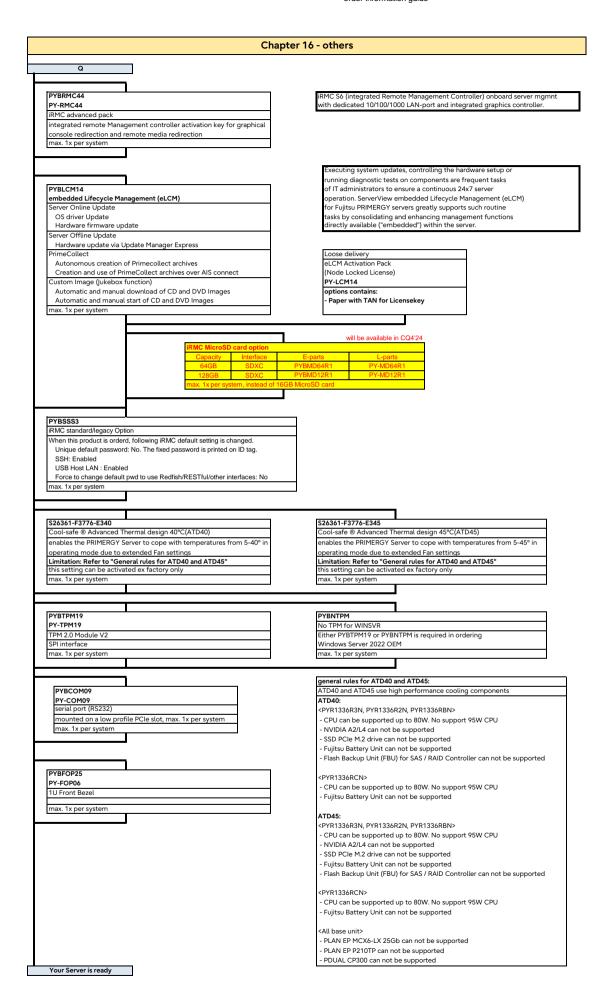
Maximum sotrage quantity 8pcs [(SSD 3,5" LFF or SSD 2,5" SFF) + SSD M.2]

ENERGY STAR-configurationen will be labeld: non ENERGY STAR-configurationen will be labeld:

PRIMERGY RX1330 M6 E-Star Fam1 PRIMERGY RX1330 M6

Serial port option is not relevant for E-Star





Date of change	Configurator revis Folder / order code / description		What has been changed / comment	Name
10.04.2024	1.03	Cover	updated the address of "For further information see:"	H. Okabe
28.03.2024	1.02	others	updated "general rules for ATD40 and ATD45"	H. Okabe
25.03.2024	1.01	others	revised the description about iRMC MicroSD card options for eLCM	Y. Sugiyama
22.03.2024	1,00		1st release	H. Okabe