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 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 RI45 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
- <--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
- <--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:

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

https://www.fujitsu.com/fts/products/computing/servers/primergy/ir (internet)

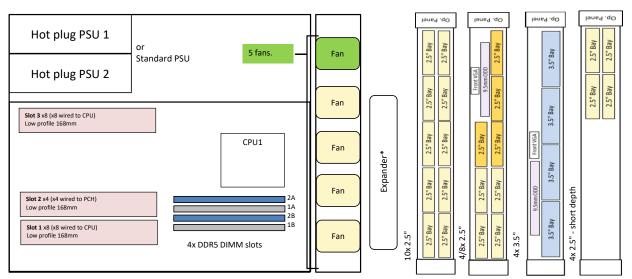
https://extranet.ts.fujitsu.com/com/tools/configure/server/Pages/default.aspx

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

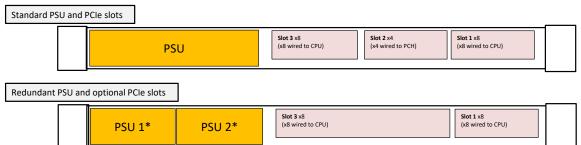
SAS	Drives, RAID	Serial attached SCSI Device (HDD, SSD, LTO drives); SAS3.0 = 12GBit/s; SAS4.0 = 24GBit/s
SATA	Drives, RAID	Serial ATA (HDD, SSD) current SATA speed = 6GBit/s
HDD	Drives	Hard disk drive (Non volatile storage device), 2.5" (SFF) or 3.5" (LFF)
SSD	Drives	Solid state disk (Non volatile storage 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
		extra silipinent

PRIMERGY RX1330 M6 schematics of the System board and fans



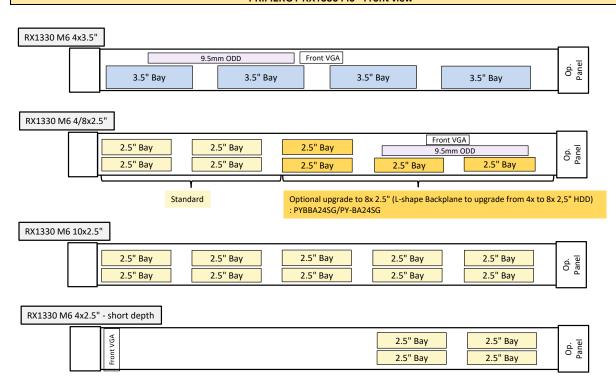
^{*:} only for 10x 2.5" base unit

PRIMERGY RX1330 M6 - Rear view with PSU and PCIe slots



^{*:}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.

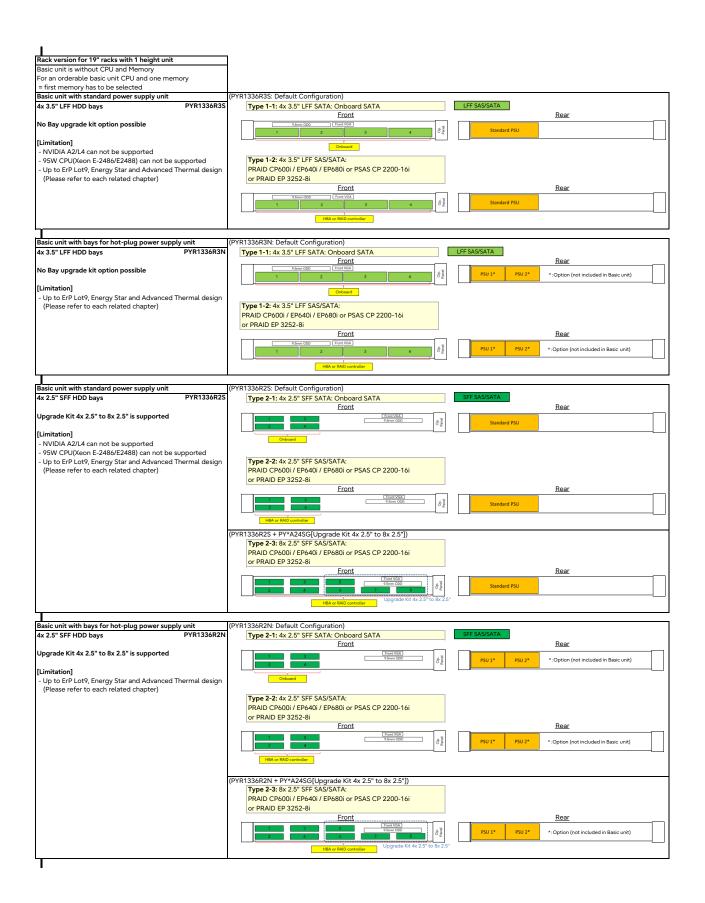
Slot 3 can also be upgraded to PCIe Gen5 x8 full height, 168mm length (!Slot 2 and it's riser is not available in this case!)

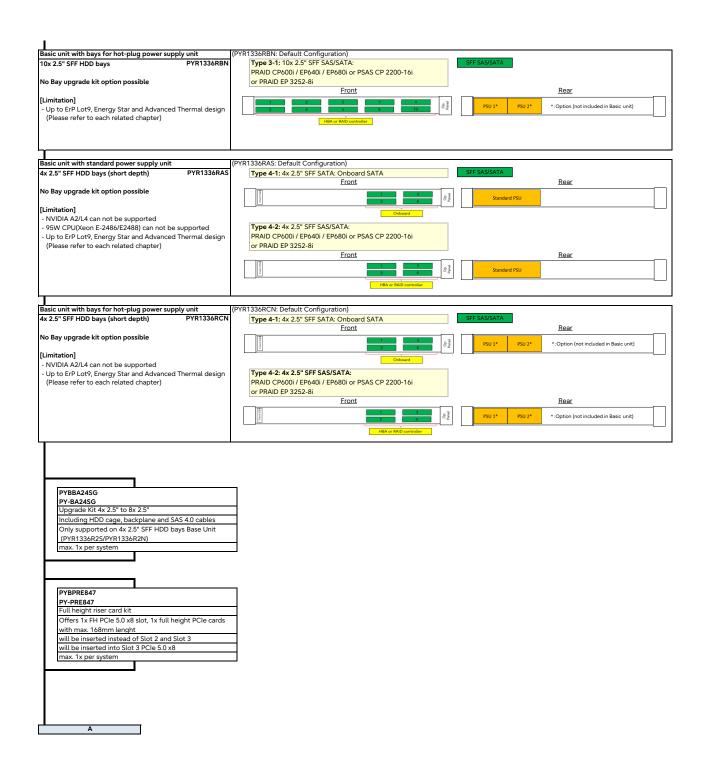
Onboard RAID(Intel VROC(SATA RAID)) 0/1/10 6Gbit/s available for SATA drives System RAM up to DDR5-4400 MT/s

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

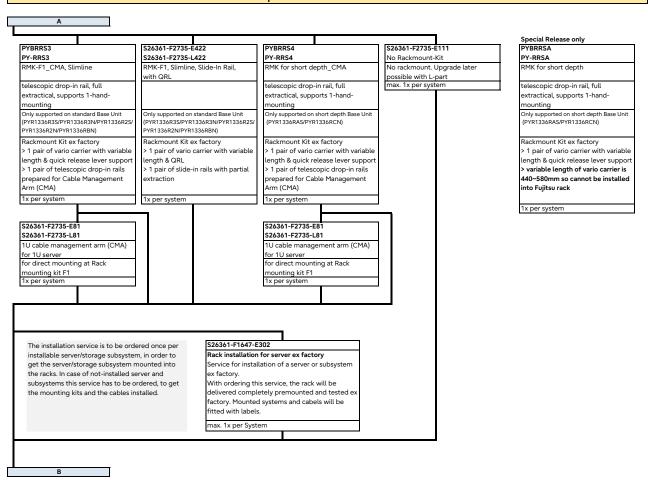
ServerView Suite Software incl. ServerView Installation Manager, Management Software and Updates is optional available

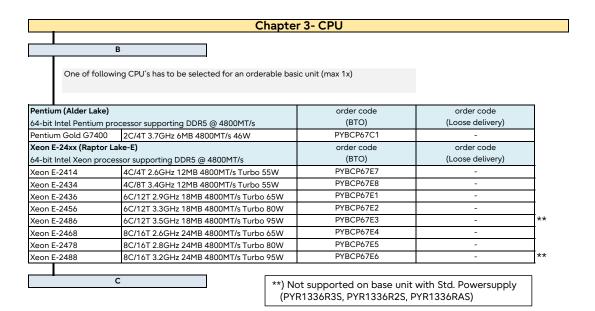
Interfaces at rear side Interfaces at front -1 service LAN RJ45 (1 Gbit) for base units with up to 8x drives: 2x USB 3.2 Gen1 Typ - 1x VGA (15 pins) -1 x VGA (15 pins) 1x USB3.2 Gen2x2 Type C -4x USB 3.2 Gen1 Type A for base units with 10 drives: 2x USB 3.2 Gen1 Type A (
- 1x VGA (15 pins) 1x USB3.2 Gen2x2 Type C - 4x USB 3.2 Gen1 Type A for base units with 10 drives: 2x USB 3.2 Gen1 Type A (
- 4x USB 3.2 Gen1 Type A for base units with 10 drives: 2x USB 3.2 Gen1 Type A (pe A (on "ear"),
31	
	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 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.

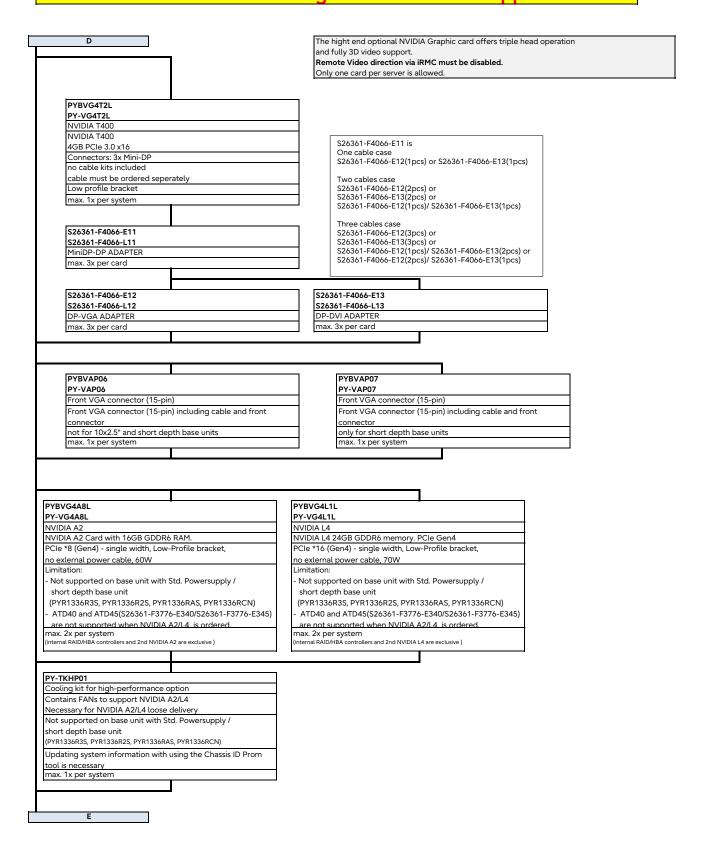
Any mix of different memory modules with different order code is not supported.

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			

D

Chapter 5 - Graphics cards

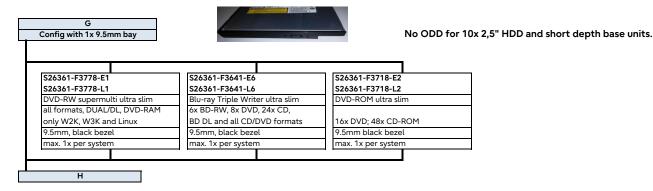
The different GPU mixed configuration does not support.



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 onboard controller for SATA HDD or SSD drives Intel VROC (SATA RAID) based on chipset No Cache SW-RAID 0, 1, 10 1x onboard, included internal HBA and RAID controller, no 2nd Level cache internal RAID / HBA controllers for SAS, SATA HDD or SSD drives No Cache RAID 0, 1, 10 PYBSR4FAL PY-SR4FA 8 ports 3, 6 & 12Gb/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, based on LSI SAS3808 internal RAID / HBA controllers for SAS, SATA HDD or SSD drives HBA + RAID 0, 1, 10, 5 1x PYBSC4MA1L PY-SC4MA1 PSAS CP 2200-16i LP No Cache 16 ports 6, 12 & 24Gb/s SAS/SATA HDD/SSD, supports up to 16 SAS/SATA drives without expande 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 PYBSR4C63L PY-SR4C63 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 EP680i LP 8GB Cache 1x PYBSR4C6L PY-SR4C6 RAID 0, 1, 10, 5, 50, 6, 60 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) FBU option for PRAID EP6xx: Supercap securing the power supply of the RAID controller in case of S26361-F4042-E183 S26361-F4042-L110 power failure including cable with 83cm length (for standard model: PYR1336R3S, PYR1336R3N, PYR1336R2S, PYR1336R2N, PYR1336RBN) S26361-F4042-E155 S26361-F4042-L110 FBU option for PRAID EP6xx: Supercap securing the power supply of the RAID controller in case of ower failure including cable with 55cm length for short depth model: PYR1336RAS, PYR1336RCN) internal RAID controllers for SAS, SATA HDD or SSD drives PYBSR4MA1L PY-SR4MA1 PRAID EP 3252-8i LP RAID 0. 1. 10. 5. 50. 6. 60 2GB Cache 8 ports 6, 12 & 24Gb/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 optional Flash Backup Unit (FBU) PY-FBM01 FBU option for PRAID EP 325x: Supercap securing the power supply of the RAID controller in case of 1x PYBFBM013 power failure including cable with 80cm length for standard model: PYR1336R3S, PYR1336R3N, PYR1336R2S, PYR1336R2N, PYR1336RBN) PYBFBM012 PY-FBM01 FBU option for PRAID EP 325x: Supercap securing the power supply of the RAID controller in case of ower failure including cable with 46cm length (for short depth model) or short depth model: PYR1336RAS, PYR1336RCN up to 1x FBU can be integrated per System 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 PSAS CP600e LP HBA, no RAID PYBSC4FAEL 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. 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 (==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.

<u>Warranty:</u>
SSD and SATA DOM have a built-in Wear-Out indicator. In this case the warranty for such a component, as an 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" Mixed Use (SFF) Enterprise with hot plug/hot replace tray									
based on Samsung PM897a drives									
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.								

SSD SATA 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray									
based on Samsung PM897 drives									
Capacity	Formfactor	Interface	Endurance	DWPD		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	max. 4x or 10x - depending on base unit & configuration								

SSD SATA 2.5" Mixed Use (SFF) Enterprise with 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	PYBSS48NQ	PY-SS48NQ			
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0	PYBSS96NQ	PY-SS96NQ			
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0	PYBSS19NQ	PY-SS19NQ			
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,5	PYBSS38NQ	PY-SS38NQ			
max, 4x or 10x	max, 4x or 10x - depending on base unit & configuration								

Capacity		/es					
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-SS48NMI
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
nis SSDs can be	e used as Non-S	ED drives, but it r	equires a RAID contro	ller with SE	D support for using	as SED drives.	

ased on Sam	sung PM893 drive	es				
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-SS24N
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	PYBSS48NMD	PY-SS48N
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	PYBSS96NMD	PY-SS96N
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	PYBSS19NMD	PY-SS19N
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	PYBSS38NMD	PY-SS38N
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	PYBSS76NMD	PY-SS76N

CCD CATA 2	CII Decellates	· (CEE) = .							
	SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot 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	PYE	BSS24NME	PY-SS24NME		
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5	PYI	BSS48NMF	PY-SS48NMF		
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5	PYI	BSS96NMF	PY-SS96NMF		
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5	PYI	BSS19NMF	PY-SS19NMF		
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,2	PYI	BSS38NMF	PY-SS38NMF		
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,6	PYI	BSS76NMF	PY-SS76NMF		
max. 4x or 10x	nax. 4x or 10x - depending on base unit & configuration								

2.5" (SFF) Hard drives

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	\$26361-F5729-E160	S26361-F5729-L160			
1.2TB	10 000	SAS 12Gb/s	512n	S26361-F5729-E112	S26361-F5729-L112			
max. 4x or 10x	max, 4x or 10x - depending on base unit & configuration							

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 l	base unit & config	max. 4x or 10x - depending on base unit & configuration								

.FF) SATA SSI)		1				
.FF) SATA SSI)						
	7						
SSD SATA 3	3.5" Mixed Use (LFF) 2.5" SSD Ente	erprise with 3.5" ho	t plug/hot rep	lace tray		
	nsung PM897a driv						
Capacity	Formfactor	Interface	Endurance	DWPD	CED	order code E-part	order code
480GB 960GB	3.5" (LFF)	SATA 6Gb/s SATA 6Gb/s	Mixed Use Mixed Use	3	SED SED	PYBTS48NK9 PYBTS96NK9	P
1.92TB	3.5" (LFF) 3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBTS19NK9	
3.84TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBTS38NK9	
					D support for using		
	ending on base ur				., .		
	4						
CCD CATA S	E" Miyed Hee/	I FE) 2 FII CCD F-+-		+ l // +	I *		
	nsung PM897 drive		erprise with 3.5" ho	nt ptug/not rep	lace tray		
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code
480GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3		PYBTS48NK8	P
960GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3		PYBTS96NK8	P
1.92TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3		PYBTS19NK8	P
3.84TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3		PYBTS38NK8	Р
max. 4x - dep	ending on base ur	nit & configuration	<u> </u>				
	4						
SSD SATA 3	3.5" Mixed Use (LFF) 2.5" SSD Ent	erprise with 3.5" h	ot plug/hot re	olace tray		
	ron 5400 MAX driv	ves					
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		PYBTS48NKA	P
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0	<u> </u>	PYBTS96NKA	P
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0	1	PYBTS19NKA	P
3.84TB	2.5" (SFF) ending on base ur	SATA 6Gb/s	Mixed Use	3,5	1	PYBTS38NKA	Р
лил. ч л - цер	I Dase Ur	a comiguration					
	1						
SSD SATA 3	3.5" Read Intens	sive (LFF) 2.5" SS	D Enterprise with 3	3.5" hot plug/h	ot replace tray		
	nsung PM893a driv						
Capacity	Formfactor	Interface	Endurance	DWPD	CED	order code E-part	order code
480GB	3.5" (LFF)	SATA 6Gb/s SATA 6Gb/s	Read Intensive		SED SED	PYBTS48NMB	P
960GB 1.92TB	3.5" (LFF) 3.5" (LFF)	SATA 6Gb/s	Read Intensive		SED	PYBTS96NMA PYBTS19NMA	P P
3.84TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive		SED	PYBTS38NMA	 P
7.68TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive		SED	PYBTS76NMA	P
			equires a RAID cor		D support for using	as SED drives.	-
	3.5" Read Intens		D Enterprise with 3	3.5" hot plug/h	ot replace tray		
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code
240GB	3.5" (LFF)	SATA (Gb/s	Read Intensive			PYBTS24NM9	P
480GB 960GB	3.5" (LFF) 3.5" (LFF)	SATA 6Gb/s SATA 6Gb/s	Read Intensive			PYBTS48NM9 PYBTS96NM9	P P
1.92TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive			PYBTS19NM9	P
3.84TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive			PYBTS38NM9	P
7.68TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0		PYBTS76NM9	P
max. 4x - dep	ending on base ur	nit & configuration	l				
	<u>-</u>						
	ron 5400 PRO driv		D Enterprise with 3	3.5" hot plug/h	ot replace tray		
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order cod
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive		<u> </u>	PYBTS24NMB	P
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive		1	PYBTS48NMC	P
960GB 1.92TB	2.5" (SFF) 2.5" (SFF)	SATA 6Gb/s SATA 6Gb/s	Read Intensive		1	PYBTS96NMB PYBTS19NMB	P
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive		1	PYBTS38NMB	P
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive		1	PYBTS76NMB	P
	ending on base ur						
.FF) Hard driv	res						
	7						
			iness Critical with	hot plug/hot re	eplace tray		
Capacity	RPM	Interface	Sector			order code E-part	order code
2TB	7 200 7 200	SAS 12Gb/s SAS 12Gb/s	512n 512n			PYBCH2T7G6	P
4TB	ending on base ur					PYBCH4T7G6	Р
тах. 4х чер	criding on base of	iit a comigoration					
HDD SAS 3	5" 7.2K 512e (III	FF) Enterprise Bus	iness Critical with	hot plua/hot re	eplace trav		
Capacity	RPM	Interface	Sector	progriiot it	day	order code E-part	order cod
6TB	7 200	SAS 12Gb/s	512e			PYBCH6T7BA	P
	7 200	SAS 12Gb/s	512e			PYBCH8T7B9	P
8TB	7 200	SAS 12Gb/s	512e			PYBCHCT7B8	P
8TB 12TB	T =	SAS 12Gb/s	512e			PYBCHET7B8	P
	7 200					PYBCHGT7B5	P
12TB 14TB 16TB	7 200	SAS 12Gb/s	512e				
12TB 14TB 16TB 18TB	7 200 7 200	SAS 12Gb/s	512e			PYBCHJT7B2	
12TB 14TB 16TB 18TB 20TB	7 200	SAS 12Gb/s SAS 12Gb/s	512e 512e				

HDD SATA 3.5" 7.2K 512n (LFF) Enterprise Business Critical with hot plug/hot replace tray Interface order code E-part order code L-part SATA 6Gb/s PYBBH2T7BA SATA 6Gb/s 4TR 7 200 512n PYBBH4T7BA PY-BH4T7BA max, 4x - depending on base unit & configuration HDD SATA 3.5" 7.2K 512e (LFF) Enterprise Business Critical with hot plug/hot replace tray

Capacity RPM Interface Sector PYBBH6T7EA SATA 6Gb/s PY-BH6T7EA 6TB 7 200 512e SATA 6Gb/s 8TB 7 200 512e PYBBH8T7E5 PY-BH8T7E5 max. 4x - dep nding on base unit & configuratio M.2 SSD M.2 drive for VMware ESXi and for other OSs cannot be mixed M.2 SATA and M.2 PCIe drive cannot be mixed SSD SATA M.2 drive for booting, non hot-plug, for VMware ESXi pased on Micron 5400 PRO drives Capacity Formfactor Category order code E-part order code L-par PYBMF24NVD PY-MF24NVI 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 (p n"). 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 ased on Micron 5400 PRO drives Capacity Formfactor 240GB M.2 Interface Category PYBMF24YN5 PY-MF24YN SATA 6Gb/s 480GB M.2 Boot PYBMF48YN5 PY-MF48YN 960GB M.2 2280 SATA 6Gb/s PYBMF96YN PY-MF96YN Boot 1.2 drive is designed for use as a boot drive with the Endurance 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 ased on Micron 7450 PRO drives Interface DWPD order code E-part Capacity Formfactor Category order code L-part M.2 2280 Boot PYBBS48PEA 480GB PY-BS48PE 960GB M.2 2280 PCle4.0 x4 0,9 Boot PYBBS96PEA PY-BS96PEA M.2 drive is designed for use as a boot drive with the Endurance Spec 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 max. 1x per system Dual M.2 PDUAL CP300 and M.2 drive on Motherboard cannot be mixed PDUAL CP300, dual M.2 for booting, non hot-plug order code E-par order code L-pa Formfactor ategory Capacity AIC PCle Boot LP PYBDMCP35L PY-DMCP3 DUAL CP300 is a carrier of 2x SSD SATA or PCIe M.2 drives, which offers RAID1 with the 2x SSD M.2 drives boot device for Hype ervisor, which cannot be suppor 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 SSD PCIe M.2 480GB/960GB. (PY*BS48PEA/PY*BS96PEA) [SSD PCIe M.2 is only available for base unit with Red. Pov max. 1x per Server, requires 2x SSD M.2 drives. RAID PRESET option order code L-part pre-config. RAID1 Array for M.2 in PDUAL S26361-F5659-E13 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. Κ

Chapter 11 - Communications / Ethernet Network Components

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PRIMERGY RX1330 M6 provides default Intel LAN on Motherboard:

- 2x Controller Intel I210 1000BASE-T, 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

Broadcom 1GbE BEASE-T for PCIe				
PLAN CP BCM5719-4P 4X 1000BASE-T PCIe LP	2x	Broadcom, 1GTx4port	PYBLA284L	PY-LA284
nax. 2x adapters per system		•	•	
ntel 1GbE BEASE-T for PCIe				
PLAN CP 2x1Gbit Cu Intel I350-T2 LP	2x	Intel, 1GTx2port	S26361-F4610-E202	S26361-F4610-L502
PLAN CP 4x1Gbit Cu Intel I350-T4 LP	2x	Intel, 1GTx4port	S26361-F4610-E204	S26361-F4610-L504
max. 2x adapters per system (both I350-T2 and I3	50-14 in t	отац		
Broadcom 10GbE BEASE-T for PCIe				
PLAN EP P210TP 2X 10GBASE-T PCIe LP	2x	Broadcom, 10GTx2port	PYBLA3K2L	PY-LA3K2
max. 2x adapters per system	1		1	
1				
ntel 10GbE BEASE-T for PCIe				
PLAN EP X710-T2L 2x10GBASE-T LP	2x	Intel, 10GTx2port	PYBLA342L	PY-LA342
PLAN EP X710-T4L 4x10GBASE-T LP	2x	Intel, 10GTx4port	PYBLA344L	PY-LA344
nax. 2x adapters per server system				
ach cage consumes 1x optical SFP+ transceiver p pual rate 10G/1G support requires 10G/1G Dual R	ate SFP+			
each cage consumes 1x optical SFP+ transceiver poul rate 10G/1G support requires 10G/1G Dual Rull ports on this card need to install the same Part	ate SFP+		PYBLA3J2L	PY-LA3J2
Each cage consumes 1x optical SFP+ transceiver probat 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	ate SFP+ s Number 2x	of optical module. Broadcom, 10Gx2port	PYBLA3J2L	PY-LA3J2
Each cage consumes 1x optical SFP+ transceiver properties 10G/1G support requires 10G/1G Dual Rate 10G/1G out and the same Part PLAN EP P210P 2x10Gb SFP PCIe LP Optional, 10Gb SFP+ optical transceiver models.	tate SFP+ s Number 2x lule, selec	of optical module. Broadcom, 10Gx2port t one per cage		,
Cach cage consumes 1x optical SFP+ transceiver probat rate 10G/1G support requires 10G/1G Dual Rate 10G/1G out Fall ports on this card need to install the same Part PLAN EP P210P 2x10Gb SFP PCIe LP Optional, 10Gb SFP+ optical transceiver mode SFP+ Module Multi Mode Fiber 10GbE LC	2x lule, selection	of optical module. Broadcom, 10Gx2port t one per cage Finisar, 10G SR SFP+	S26361-F3986-E3	S26361-F3986-L3
Cach cage consumes 1x optical SFP+ transceiver properties and consumes 1x optical SFP+ transceiver properties and consumers and post on this card need to install the same Part PLAN EP P210P 2x10Gb SFP PCIe LP Optional, 10Gb SFP+ optical transceiver mode and specified services are specified services and specified services are specified services and specified services are specified services.	ate SFP+ s Number 2x lule, select 2x 2x	r of optical module. Broadcom, 10Gx2port t one per cage Finisar, 10G SR SFP+ Intel, 1G/10G SR SFP+	\$26361-F3986-E3 \$26361-F3986-E5	\$26361-F3986-L3 \$26361-F3986-L5
Cach cage consumes 1x optical SFP+ transceiver product 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	2x lule, selection	of optical module. Broadcom, 10Gx2port t one per cage Finisar, 10G SR SFP+	S26361-F3986-E3	S26361-F3986-L3
Cach cage consumes 1x optical SFP+ transceiver production and 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	ate SFP+ s Number 2x lule, select 2x 2x	r of optical module. Broadcom, 10Gx2port t one per cage Finisar, 10G SR SFP+ Intel, 1G/10G SR SFP+	\$26361-F3986-E3 \$26361-F3986-E5	\$26361-F3986-L3 \$26361-F3986-L5
Cach cage consumes 1x optical SFP+ transceiver production and 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	ate SFP+ s Number 2x lule, select 2x 2x	r of optical module. Broadcom, 10Gx2port t one per cage Finisar, 10G SR SFP+ Intel, 1G/10G SR SFP+	\$26361-F3986-E3 \$26361-F3986-E5	\$26361-F3986-L3 \$26361-F3986-L5
Cach cage consumes 1x optical SFP+ transceiver product 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	ate SFP+ s Number 2x lule, select 2x 2x	r of optical module. Broadcom, 10Gx2port t one per cage Finisar, 10G SR SFP+ Intel, 1G/10G SR SFP+	\$26361-F3986-E3 \$26361-F3986-E5	\$26361-F3986-L3 \$26361-F3986-L5
Cach cage consumes 1x optical SFP+ transceiver product rate 10G/1G support requires 10G/1G Dual Rate 10G/1G support requires 10G/1G Dual Rate Iports on this card need to install the same Part PLAN EP P210P 2x10Gb SFP PCIe LP Optional, 10Gb SFP+ optical transceiver mode 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	tate SFP+ s Number 2x lule, select 2x 2x 2x 2x	r of optical module. Broadcom, 10Gx2port t one per cage Finisar, 10G SR SFP+ Intel, 1G/10G SR SFP+	\$26361-F3986-E3 \$26361-F3986-E5	\$26361-F3986-L3 \$26361-F3986-L5
Cach cage consumes 1x optical SFP+ transceiver product 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 modes of the second series of the sec	tate SFP+ s Number 2x lule, select 2x 2x 2x corr port.	Finisar, 10G SR SFP+ Intel, 1G/10G LR SFP+ Intel, 1G/10G LR SFP+	\$26361-F3986-E3 \$26361-F3986-E5	\$26361-F3986-L3 \$26361-F3986-L5
Cach cage consumes 1x optical SFP+ transceiver product rate 10G/1G support requires 10G/1G Dual Rate 10G/1G support requires 10G/1G Dual Rate Iports on this card need to install the same Parter 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 Cach cage consumes 1x optical SFP+ transceiver product rate 10G/1G support requires 10G/1G Dual Rate Iport Ipor	tate SFP+ s Number 2x lule, select 2x 2x 2x 2x ber port. late SFP+	For of optical module. Broadcom, 10Gx2port t one per cage Finisar, 10G SR SFP+ Intel, 1G/10G SR SFP+ Intel, 1G/10G LR SFP+ Optical Transceiver Modules.	\$26361-F3986-E3 \$26361-F3986-E5	\$26361-F3986-L3 \$26361-F3986-L5
Cach cage consumes 1x optical SFP+ transceiver product 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 Intel 10GbE for PCIe Cach cage consumes 1x optical SFP+ transceiver product rate 10G/1G support requires 10G/1G Dual Fall ports on this card need to install the same Part	ate SFP+ s Number 2x 2u 2x 2x 2x 2x er port. tate SFP+ s Number	Finisar, 10G SR SFP+ Intel, 1G/10G LR SFP+ Intel, 1G/10G LR SFP+ Optical Transceiver Modules.	\$26361-F3986-E3 \$26361-F3986-E5 \$26361-F3986-E6	\$26361-F3986-L3 \$26361-F3986-L5 \$26361-F3986-L6
Cach cage consumes 1x optical SFP+ transceiver product rate 10G/1G support requires 10G/1G Dual Rate 10G/1G support requires 10G/1G Dual Rate Iports on this card need to install the same Parter 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 product rate 10G/1G support requires 10G/1G Dual Rate Iports on this card need to install the same Parter PLAN EP X710-DA2 2x10Gb SFP+ LP	tate SFP+ s Number 2x tule, select 2x 2x 2x 2x 2x 2x 2x 2x 2x 2	r of optical module. Broadcom, 10Gx2port t one per cage Finisar, 10G SR SFP+ Intel, 1G/10G SR SFP+ Intel, 1G/10G LR SFP+ Optical Transceiver Modules. of optical module. Intel, 10Gx2port	\$26361-F3986-E3 \$26361-F3986-E5	\$26361-F3986-L3 \$26361-F3986-L5
Cach cage consumes 1x optical SFP+ transceiver product 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 Intel 10GbE for PCIe Each cage consumes 1x optical SFP+ transceiver poul rate 10G/1G support requires 10G/1G Dual Rate Intel 10GbE for PCIe Dual rate 10G/1G support requires 10G/1G Dual Fall ports on this card need to install the same Part PLAN EP X710-DA2 2x10Gb SFP+ LP Optional, 10Gb SFP+ optical transceiver model	late SFP+ s Number 2x lule, select 2x 2x 2x 2x 2x 2x 2x 2x 2x 2	r of optical module. Broadcom, 10Gx2port t one per cage Finisar, 10G SR SFP+ Intel, 1G/10G SR SFP+ Intel, 1G/10G LR SFP+ Optical Transceiver Modules. of optical module. Intel, 10Gx2port t one per cage	\$26361-F3986-E3 \$26361-F3986-E5 \$26361-F3986-E6 \$26361-F3986-E6	\$26361-F3986-L3 \$26361-F3986-L5 \$26361-F3986-L6
Cach cage consumes 1x optical SFP+ transceiver product 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 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 product rate 10G/1G support requires 10G/1G Dual Rate 10G/1G support requires 10G/1G Dual Fall ports on this card need to install the same Part PLAN EP X710-DA2 2x10Gb SFP+ LP Optional, 10Gb SFP+ optical transceiver mode SFP+ Module Multi Mode Fiber 10GbE LC	late SFP+ s Number 2x lule, select 2x 2x 2x 2x 2x 2x 2x 2x 2x lule, select 2x	r of optical module. Broadcom, 10Gx2port t one per cage Finisar, 10G SR SFP+ Intel, 1G/10G SR SFP+ Intel, 1G/10G LR SFP+ Optical Transceiver Modules. of optical module. Intel, 10Gx2port t one per cage Finisar, 10G SR SFP+	\$26361-F3986-E3 \$26361-F3986-E5 \$26361-F3986-E6 \$26361-F3986-E6	\$26361-F3986-L3 \$26361-F3986-L5 \$26361-F3986-L6 \$26361-F3640-L502 \$26361-F3986-L3
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 p Dual rate 10G/1G support requires 10G/1G Dual Rate All ports on this card need to install the same Part PLAN EP X710-DA2 2x10Gb SFP+ LP Optional, 10Gb SFP+ optical transceiver model Optional, 10Gb SFP+ optical transceiver model	late SFP+ s Number 2x lule, select 2x 2x 2x 2x 2x 2x 2x 2x 2x 2	r of optical module. Broadcom, 10Gx2port t one per cage Finisar, 10G SR SFP+ Intel, 1G/10G SR SFP+ Intel, 1G/10G LR SFP+ Optical Transceiver Modules. of optical module. Intel, 10Gx2port t one per cage	\$26361-F3986-E3 \$26361-F3986-E5 \$26361-F3986-E6 \$26361-F3986-E6	\$26361-F3986-L3 \$26361-F3986-L5 \$26361-F3986-L6

max. 2x adapters per system

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, pleas				
		T	1	I
LAN EP P225P 25Gb 2p SFP28 PCIe LP	2x	Broadcom, 25Gx2port	PYBLA3H2L	PY-LA3H2
O-ti 25Ch CED20tilt	ماهاند د مادداد	 		
Optional, 25Gb SFP28 optical transceiver m SFP28 25G SR E25GSFP28SRX LC	2x	Intel. 25G SR SFP28	e. PYBSFPS56	PY-SFPS56
max. 1x per port	ZX	Intel, 25G SR SFP28	PTB5FP550	P1-3FP330
Optional, 10Gb SFP+ optical transceiver mo	dule each	rage consumes one		
SFP+ Transceiver 10G/1G Dual Rate SR	2x	Intel, 1G/10G SR SFP+		S26361-F3986-L5
SFP+ Transceiver 10G/1G Dual Rate LR	2x	Intel, 1G/10G LR SFP+		S26361-F3986-L6
max. 1x per port		inter, 10/100 ER SITT		32000110700 E0
nax. 2x adapters per system				
ntel 25GbE for PCIe				
Table 1ti SED20 SED31				
ach cage consumes 1x optical SFP28 or SFP+ tr				
ll ports on this card need to install the same Par		•		
OG SFP BTO is not available for 25G cards, plea:	se select L	parts.		
LAN EP E810-XXVDA2 2x25Gb LP	2x	Intel, 25Gx2port	PYBLA402L	PY-LA402
Optional, 25Gb SFP28 optical transceiver m	odule with	LC connector, each cage consumes on	e.	
SFP28 25G SR E25GSFP28SRX LC	2x	Intel, 25G SR SFP28	PYBSFPS56	PY-SFPS56
max. 1x per port	-		•	
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-L5
SFP+ Transceiver 10G/1G Dual Rate LR	2x	Intel, 1G/10G LR SFP+		S26361-F3986-L6
max. 1x per port	•	•	•	•
nax. 2x adapters per system				
VIDIA 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		•		
0G SFP BTO is not available for 25G cards, pleas		•		
		T		T
PLAN EP MCX6-LX 25Gb 2p SFP28 PCIe LP	2x	NVIDIA, 25Gx2port	PYBLA402L4	PY-LA4024
2717 E1 11070 EX 2000 2p 311 201 GIC E1		TVIDIA, 200X2port	1186740264	11 2/4024
Optional, 25Gb SFP28 optical transceiver m	odule with	LC connector, each cage consumes on	e.	
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-L70
max. 1x per port		•	ı	
Optional, 10Gb SFP+ optical transceiver mo	dule, each	cage consumes one.		
	2x	Intel, 1G/10G SR SFP+		S26361-F3986-L5
SFP+ Transceiver 10G/1G Dual Rate SR				S26361-F3986-L6
SFP+ Transceiver 10G/1G Dual Rate SR SFP+ Transceiver 10G/1G Dual Rate LR	2x	Intel, 1G/10G LR SFP+		320301-F3700-L0
	2x	Intel, 1G/10G LR SFP+		320301-F3700-E0

Chapter 12 - Communications / Fibre Channel Components

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Fibre Channel PCIe Adapters

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 optical 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 supported)							

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Chapter 14 - Power supply unit, power cable, certifications, region kits Power supply unit Basic unit with bays for hot-Basic unit with standard ower supply unit plug power supply unit modular redundant Power Supply PSU for redundancy occupies hot plug PSU slot, min. 1 / max. 2x per system put nominal voltage (AC): 100V-240V, max: 90V-264V; input dropout 10ms/100% load, 47Hz-63Hz 500W platinum PSU Connector type: C13, APAC/JAPAN region only 94% eff. 500W titanium PSU 96% eff. Connector type: C13, nom. 220-240V, max. 180-264V PYBPU503 PY-PU503 00W platinum PSU 94% eff. Connector type: C13, APAC/JAPAN region only PYBPU902 PY-PU902 *not support for short depth base units Connector type: C13, nom. 220-240V, max. 180-264V 900W titanium PSU 96% eff. PYBPU901 PY-PU901 *not support for short depth base units FJBU: 4 min. backup time for gracefull shutdown, max 1 per system [Power cord option is not required] PY-BBG04 Fujitsu Battery Unit 380W(peak), 280W Dummy module instead PSU [Power cord option is not required] PYBBBG04 380W(peak), 280W(continuous) 12V battery module S26113-F574-E99 Dummy module for closing the 2nd PSU hole, in case only 1 PSU is equipped, max. 1x per system ower 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) able powercord (USA) 15A, 1.8m, black, NEMA 5-15 conne ctor 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 Cable powercord (D, A, B, F, NL, FIN, N, S, E, P, RUS, TR), 1.8m, grey T26139-Y1740-L10 T26139-Y1744-L10 Cable powercord (UK, IR), 1.8m, grey T26139-Y1745-L10 Cable powercord (I), 1.8m, grey T26139-Y1746-L10 able powercord (DK), 1.8m, grey Cable powercord (ISR), 2.5m, black T26139-Y1747-L18 T26139-Y3850-E10 Std to Redundant PSU Upgrade Kit PY-TKPC04 n Kits, required to order one of them, 1x per System very order code \$26361-F1452-F100 Region Kit APAC/EMEA, Contains warranty sheet and safety instructions for APAC and EMEA S26361-F1452-E130 Region 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, Italian Polish, Russian and Welsh language, S26361-F1452-E140 (Sales region for EMEIA only) eed to be included always into the order from EU and EFTA Region Kit China for CCC option required systems, Contains warranty sheet and safety instructions for China, ed to be included always into the order from China country S26361-F1452-E101 (Sales region for APAC only) Certifications, optional 1x per system Certification for China, (CCC), Reduced component selection possible, only with no power cord option \$26361-F3301-F120 N

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)

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:

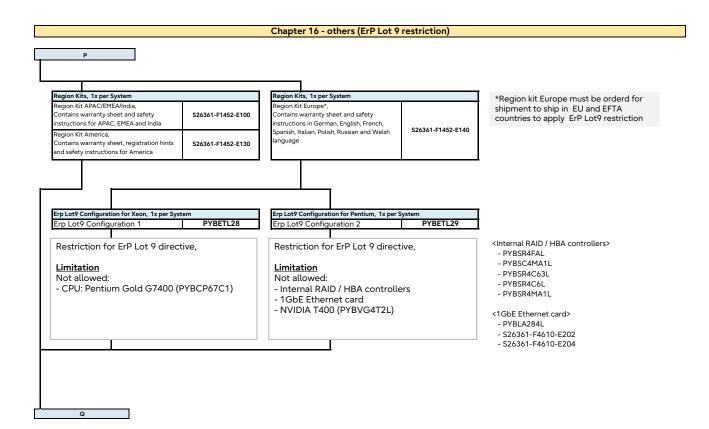
- base unit: 10x 2.5" SFF HDD bays (PYR1336RBN)
- CPU: Pentium Gold G7400 (PYBCP67C1)
- CPU: Xeon E-2414 (PYBCP67E7)
- CPU: Xeon E-2434 (PYBCP67E8)
- Any HDDs

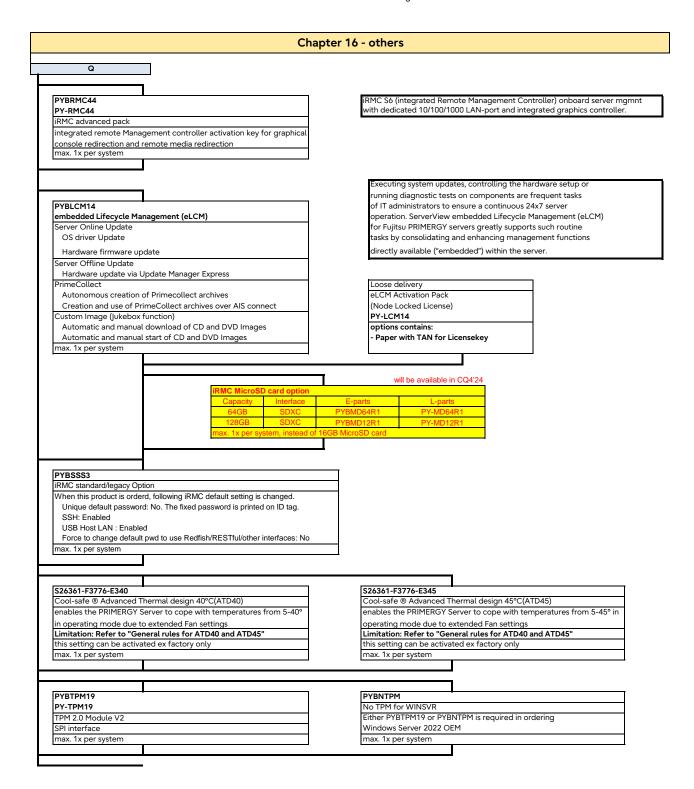
Maximum sotrage quantity 8pcs [(SSD 3,5" LFF or SSD 2,5" SFF) + SSD M.2]

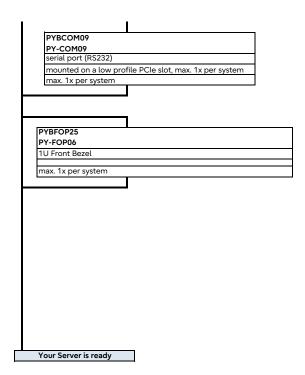
ENERGY STAR-configurationen will be labeld: non ENERGY STAR-configurationen will be labeld:

PRIMERGY RX1330 M6 E-Star Fam1 PRIMERGY RX1330 M6

Serial port option is not relevant for E-Star







general rules for ATD40 and ATD45:
ATD40 and ATD45 use high performance cooling components

<PYR1336R3N, PYR1336R2N, PYR1336RBN>

- CPU can be supported up to 80W. No support 95W CPU
- NVIDIA A2/L4 can not be supported
- SSD PCIe M.2 drive can not be supported
- Fujitsu Battery Unit can not be supported
- Flash Backup Unit (FBU) for SAS / RAID Controller can not be supported

<PYR1336RCN>

- CPU can be supported up to 80W. No support 95W CPU
- Fujitsu Battery Unit can not be supported

<PYR1336R3N, PYR1336R2N, PYR1336RBN>

- CPU can be supported up to 80W. No support 95W CPU
- NVIDIA A2/L4 can not be supported
- SSD PCIe M.2 drive can not be supported
- Fujitsu Battery Unit can not be supported
- Flash Backup Unit (FBU) for SAS / RAID Controller can not be supported

- CPU can be supported up to 80W. No support 95W CPU
- Fujitsu Battery Unit can not be supported

<All base unit>

- PLAN EP MCX6-LX 25Gb can not be supported
- PLAN EP P210TP can not be supported
- PDUAL CP300 can not be supported

Date of change	Configurator revis Folder / order code / description		What has been changed / comment	Name
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