

PRIMERGY RX1330 M5
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 M5, HDD cage kits
2		describes rack mount kits and services
3	CPU	Order code and Infos of processors
4	RAM	DDR4 System memory (RAM)
5	GFX	Graphics-cards
6		
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		
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 PC-/SystemArchitect 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 PC-/SystemArchitect.

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 prerequisites, technical background, configuration rules, limitations, ...)

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

<--indicates how often this part can be configured in the related Server

New order code

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:

Link to datasheet:

<https://sp.ts.fujitsu.com/dmsp/Publications/public/ds-py-rx1330-m5.pdf>

<https://www.fujitsu.com/fts/products/computing/servers/primergy/index.ht>

(internet)

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

(extranet)

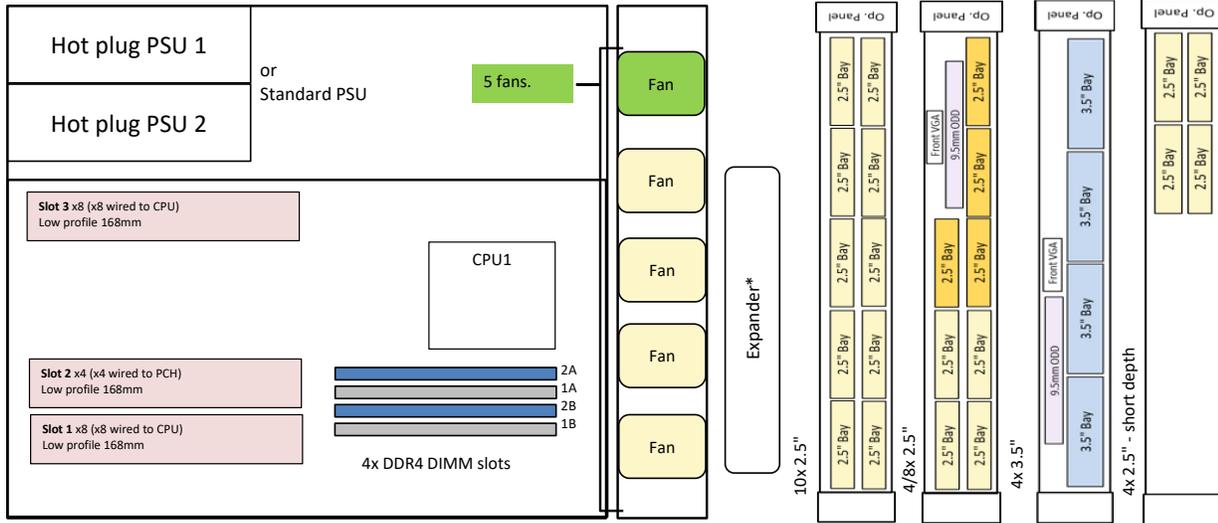
Fujitsu is providing the content of this document with very high accuracy. In case you identify a mistake, we would kindly encourage you to inform us. We kindly ask for understanding, that errors still may occur and that Fujitsu may change this document without notice

Abbreviations

SAS	Drives, RAID	Serial attached SCSI Device (HDD, SSD, LTO drives); SAS2.0 = 6Gbit/s; SAS3.0 = 12Gbit/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
Spaces	OS	Microsoft spaces, optimized in Win2012 R2 offers software RAID and storage tiering
vSAN	OS	
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- E 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- L 240" ordercode with "L" means, the part will be shipped with extra package, may be as well with extra shipment

PRIMERGY RX1330 M5 schematics of the System board and fans

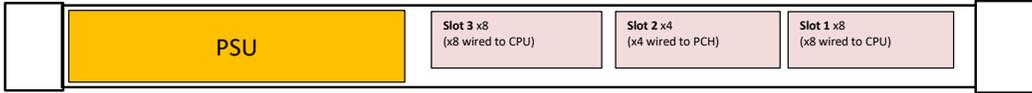
PYBBA24SC/PY-BA24SC: L-shape Backplane to upgrade from 4x to 8x 2.5" HDD



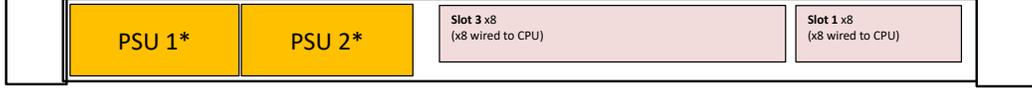
*: only for 10x 2.5" base unit

PRIMERGY RX1330 M5 - Rear view with PSU and PCIe slots

Standard PSU and PCIe slots



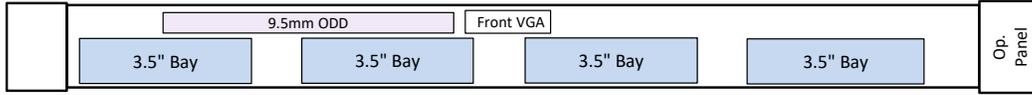
Redundant PSU and optional PCIe slots



*: Option

PRIMERGY RX1330 M5 - Front view

RX1330 M5 4x3.5"



RX1330 M5 4x2.5"



RX1330 M5 10x2.5"



RX1330 M5 4x2.5" - short depth



recommended components for RX1330 M5	#
embedded Lifecycle Management (eLCM)	1x

Chapter 1 - base unit

Start

Power supply units & cooling

The PRIMERGY RX1330 M5 offer fixed standard 300W power supply with 92% 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 M5 is equipped non-hot plug fans (4+1 for redundant PSU).

Server Management

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.

Platform

Fujitsu Systemboard D3929 based on Chipset Intel® C256

> Xeon E2300 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-Gen4 x8 - supports modular RAID functions, routed to CPU

Slot 2 PCIe-Gen3 x4, routed to PCH

Slot 3 PCIe-Gen4 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 Gen4 x8 full height, 168mm length (!Slot 2 and it's riser is not available in this case!)

up to 4x NVMe drives 2,5" can be configured

Onboard RAID(Intel VROC(SATA RAID)) 0/1/10 6Gbit/s available for SATA drives

System RAM up to DDR4-3200 MHz

2x2 memory slots for max. 128GB* DDR4 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

- 1 service LAN RJ45 (1 Gbit)
- 1x VGA (15 pins)
- 2x USB 3.2 Gen2x1 Type A, 2x USB 2.0 Type A
- 2x 1GbE LAN

Interfaces at front

for base units with up to 8x drives: 2x USB 3.2 Gen1x1 Type A (on "ear"), 1x USB3.2 Gen2x2 Type C

for base units with 10 drives: 2x USB 3.2 Gen1x1 Type A (on "ear")

Interfaces internal

- 1x M.2 SATA 6G/ PCIe x4, 1x M.2 SATA 6G/ PCIe x2
- 4x SATA 6G for HDD
- 1x SATA 6G for ODD
- 1x USB 3.2 Gen1x1 for MicroSD

RX1330 M5 4x 3.5" Rack Server

up to 4x 3.5" drives. D3929 system-board Std. Powersupply *EOL in EMEA market due to Erp Lot9 regulation

PYR1335R3S

up to 4x 3.5" drives. D3929 system-board Red. Powersupply

PYR1335R3M

RX1330 M5 4/8x 2.5" Rack Server

up to 4/8x 2.5" drives. D3929 system-board Std. Powersuppl *EOL in EMEA market due to Erp Lot9 regulation

PYR1335R2S

up to 4/8x 2.5" drives. D3929 system-board Red. Powersupply

PYR1335R2M

up to 4x NVMe, up to 4x 2.5" drives. D3929 system-board Red. Powersupply

PYR1335RAM

Upgrade Kit 4x 2.5" to 8x 2.5"

Including HDD cage, backplane and SAS 3.0 cables

PYBBA24SC

PY-BA24SC

RX1330 M5 10x 2.5" Rack Server

up to 10x 2.5" drives. D3929 system-board Red. Powersupply

PYR1335RBM

RX1330 M5 4x 2.5" short depth Rack Server

up to 4x 2.5" drives. D3929 system-board Std. Powersupply *EOL in EMEA market due to Erp Lot9 regulation

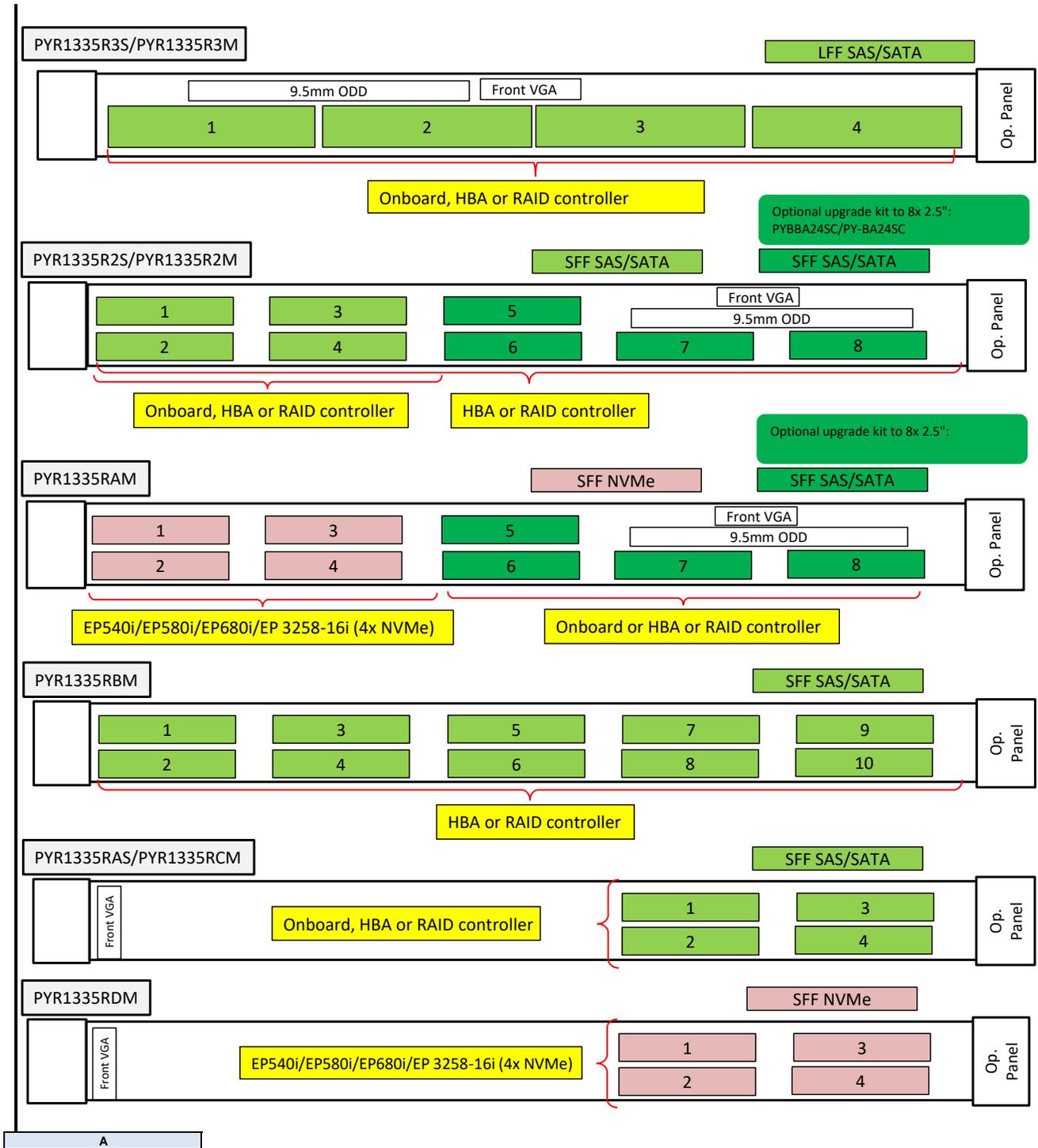
PYR1335RAS

up to 4x 2.5" drives. D3929 system-board Red. Powersupply

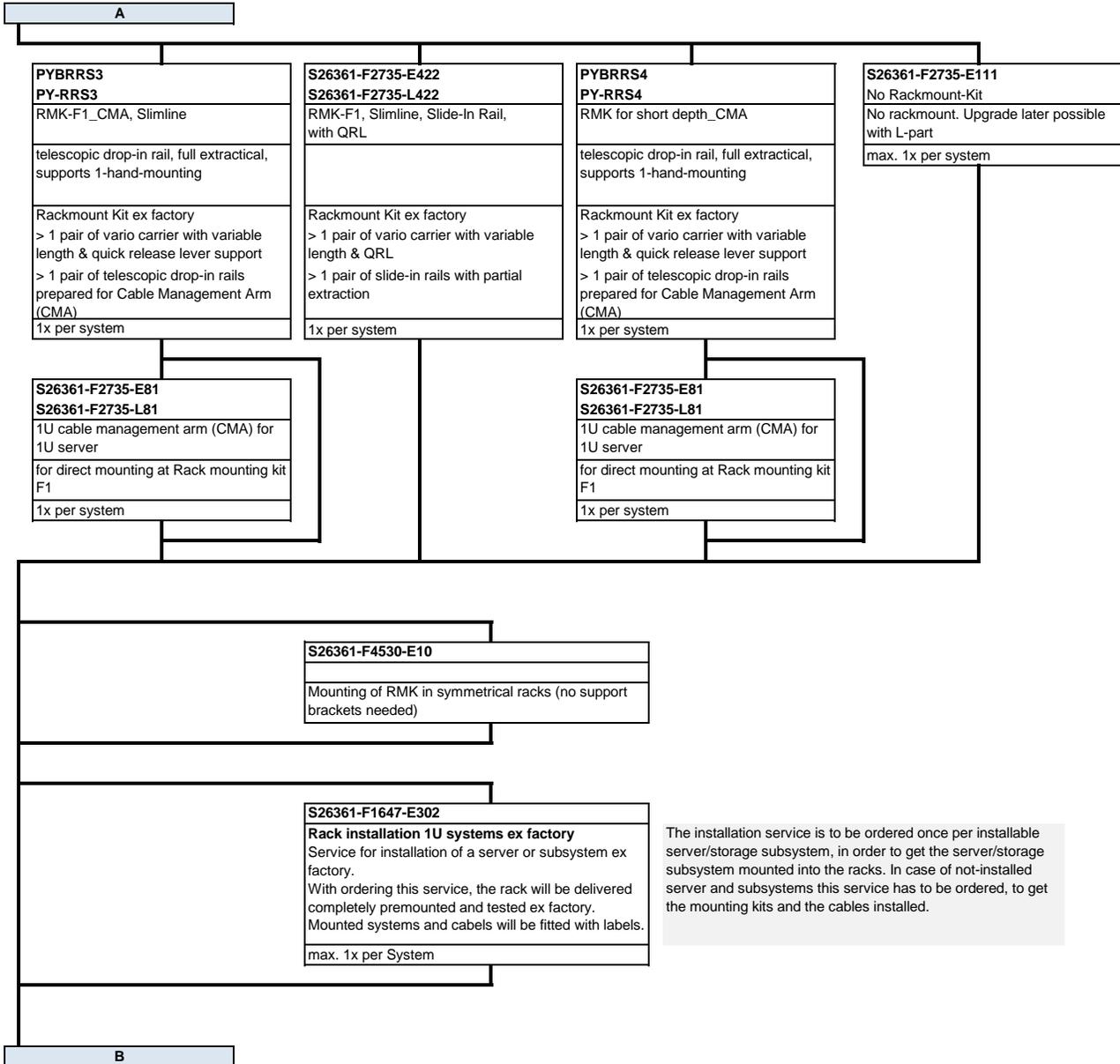
PYR1335RCM

up to 4x NVMe. D3929 system-board Red. Powersupply

PYR1335RDM



Chapter 2 - Rack architecture



Chapter 3 - CPU

B

One of following CPU's has to be selected for an orderable basic unit

Pentium (Rocket Lake)		order code (BTO)	order code (Loose delivery)
64-bit Intel Pentium processor supporting DDR4 @ 2666MHz			
Pentium Gold G6405	2C/4T 4.1GHz 4MB 2666MHz 58W	PYBCP63C1	-
Xeon E-23xx (Rocket Lake-E)		order code (BTO)	order code (Loose delivery)
64-bit Intel Xeon processor supporting DDR4 @ 3200MHz			
Xeon E-2314	4C/4T 2.8GHz 8MB 3200MHz Turbo 65W	PYBCP63E1	-
Xeon E-2324G	4C/4T 3.1GHz 8MB 3200MHz Turbo 65W	PYBCP63E5	- *
Xeon E-2334	4C/8T 3.4GHz 8MB 3200MHz Turbo 65W	PYBCP63E2	- *
Xeon E-2374G	4C/8T 3.7GHz 8MB 3200MHz Turbo 80W	PYBCP63E7	- *
Xeon E-2336	6C/12T 2.9GHz 12MB 3200MHz Turbo 65W	PYBCP63E3	- *
Xeon E-2356G	6C/12T 3.2GHz 12MB 3200MHz Turbo 80W	PYBCP63E6	- *
Xeon E-2386G	6C/12T 3.5GHz 12MB 3200MHz Turbo 95W	PYBCP63E9	- **
Xeon E-2378	8C/16T 2.6GHz 16MB 3200MHz Turbo 65W	PYBCP63E4	- *
Xeon E-2378G	8C/16T 2.8GHz 16MB 3200MHz Turbo 80W	PYBCP63E8	- *
Xeon E-2388G	8C/16T 3.2GHz 16MB 3200MHz Turbo 95W	PYBCP63EA	- **

C

***) Intel® Turbo Boost Technology is disabled on base units with standard power supply (PYR1335R3S, PYR1335R2S, PYR1335RAS)**

*****) not for base units with standard power supply (PYR1335R3S, PYR1335R2S, PYR1335RAS)**

Chapter 4 - DDR4 System memory

B

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.

Max. 128GB unbuffered DDR4 RAM for UDIMMs with 32GB moduls

Note:** Memory is not included in the base unit and has to be configured separately, min 1x.

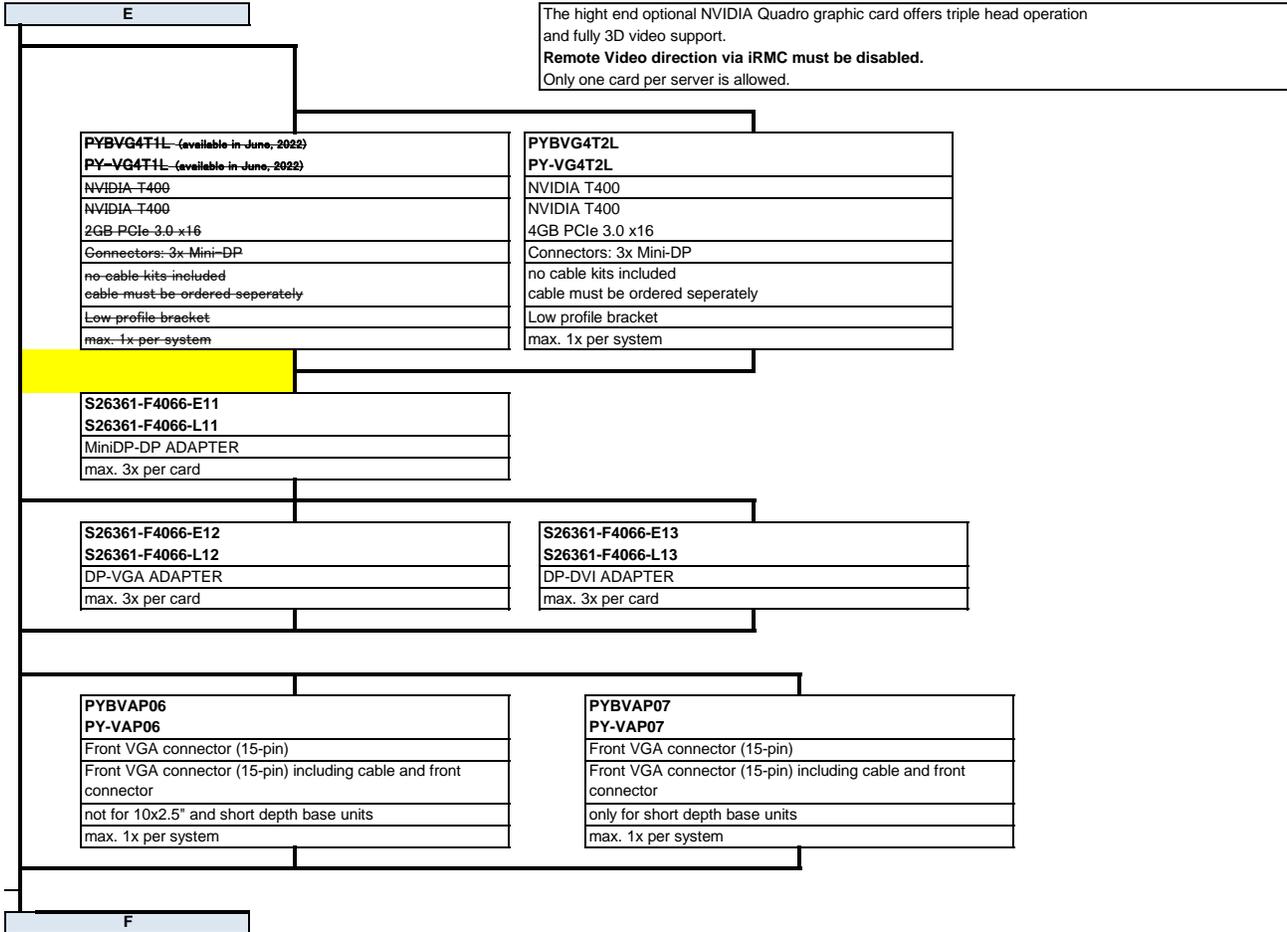
Memory module is not included in the base unit and has to be configured min 1x memory modules.
All memory module installing in one system must be identical. Any mix of different memory modules with different order code is not supported.
PYBME08UG2 will be EOL on January 5th 2024
New order code for 8GB are added, but mixed configuration between PYBME08UG2, PY-ME08UG2 and PYBME08UG4, PY-ME08UG4 are not supported
New order code of PYBME08UG4, PY-ME08UG4 will be available at end of December

8GB DDR4 Unbuffered DIMM 3200MHz 1R x8		order code (BTO)	order code (loose delivery)
8GB (1x8GB) 1Rx8 DDR4-3200 U ECC	single rank	PYBME08UG2 (EOL)	PY-ME08UG2
8GB DDR4 Unbuffered DIMM 3200MHz 1R x8		order code (BTO)	order code (loose delivery)
8GB (1x8GB) 1Rx8 DDR4-3200 U ECC	single rank	PYBME08UG4	PY-ME08UG4
16GB DDR4 Unbuffered DIMM 3200MHz 1R x8		order code (BTO)	order code (loose delivery)
16GB (1x16GB) 1Rx8 DDR4-3200 U ECC	single rank	PYBME16UG3	PY-ME16UG3
32GB DDR4 Unbuffered DIMM 3200MHz 2R x8		order code (BTO)	order code (loose delivery)
32GB (1x32GB) 2Rx8 DDR4-3200 U ECC	dual rank	PYBME32UG2	PY-ME32UG2
min 1x / max 4x for System			

C

Chapter 5 - Graphics cards

The Short depth base unit (PYR1335RAS / PYR1335RCM / PYR1335RDM) does NOT support all GPU cards.



Chapter 7 - SAS / RAID Controller

F

See pictures in folder Base for details of combinations

onboard SATA controller with SW-RAID

max number of drives depends on base units

For Support OS, please check "PRIMERGY Release Matrix" at <https://support.ts.fujitsu.com/>

onboard controller for SATA HDD or SSD drives

6 ports 3, 6Gb/s SATA HDD/SSD	based on Intel 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 -Cancelled-

PRAID CP600i LP	No Cache	RAID 0, 1, 10	1x	PYBSR4FAL	PY-SR4FA
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3808					

PSAS CP600i LP	No Cache	HBA, no RAID	1x	PYBSC4FAL	PY-SC4FA
16 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 16 drives without expander requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3816; IT FW stack without RAID functionality					

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

PRAID CP500i RAID Contr.	No Cache	RAID 0, 1, 10, 5, 50	1x	PYBSR3FBL	PY-SR3FB
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, supports up to 8 devices without expander requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3408					

PSAS CP500i HBA SAS Contr.	No Cache	HBA, no RAID	1x	PYBSC3FBL	PY-SC3FB
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, supports up to 8 devices without expander requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3408; IT FW stack without RAID functionality					

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

PSAS CP 2100-8i LP	No Cache	HBA + RAID 0, 1, 10, 5	1x	PYBSC3MA2L	PY-SC3MA2
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander requires 1x LP PCIe 3.0 x8 (int.) slot					

internal RAID controller with 2nd Level cache

internal RAID controllers for SAS, SATA HDD or SSD drives

PRAID EP640i LP	4GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	PYBSR4C63L	PY-SR4C63
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander includes FastPath and SafeStore Advanced SW-Licence, CacheCade is no longer supported requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3908					

PRAID EP680i LP	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	PYBSR4C6L	PY-SR4C6
16 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 16 SAS/SATA drives without expander (the configuration for up to 4 x4 NVMe drives requires a different order number, please see below) includes FastPath and SafeStore Advanced SW-Licence, CacheCade is no longer supported requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3916 (FYI: PYBSR4C6L and PYBSR4C62L are identical products. The 2nd Order number was only introduced for explicite ordering and cabling)					

internal RAID controllers for SAS, SATA HDD or SSD drives

PRAID EP520i RAID Contr. LP	2GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F4042-E202	S26361-F4042-L502
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, supports up to 8 devices without expander includes Fastpath and SafeStore Advanced SW-Licence requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3516					

PRAID EP540i RAID Contr. LP	4GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F4042-E214	S26361-F4042-L514
------------------------------------	-----------	--------------------------	----	-------------------	-------------------

PRAID EP580i RAID Contr. LP	8GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F4042-E208	S26361-F4042-L508
------------------------------------	-----------	--------------------------	----	-------------------	-------------------

16 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, based on LSI SAS3516, without expander, up to 16 SAS/SATA devices are supported.
(the configuration for 4 x 4 NVMe drives require a different order number, please see below)
includes FastPath and SafeStore Advanced SW-Licence, CacheCade is no longer supported
requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3516
(FYI: S26361-F4042-E214 and E224, S26361-F4042-E208 and E228 are identical products. The 2nd Order number was only introduced for explicite ordering and cabling)

optional Flash Backup Unit (FBU). Transportable Flash module (TFM) is already included					
FBU Option for PRAID EP5xx / EP6xx: Supercap securing the power supply of the RAID controller in case of power failure including cable with 83cm length	1x	S26361-F4042-E183	S26361-F4042-L110		
FBU Option for PRAID EP5xx / EP6xx: Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm lenght (for 2nd. Ctrl in PYR1335RAM and for short depth model)	1x	S26361-F4042-E155	S26361-F4042-L110		

internal RAID controllers for PCIe SSD drives

PRAID EP680i NVMe LP	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	PYBSR4C62L	PY-SR4C6
up to 4 x4 NVMe drives are supported. (the configuration for SAS/SATA only requires a different order number, please see above) includes FastPath and SafeStore Advanced SW-Licence, CacheCade is no longer supported requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3916 (FYI: PYBSR4C6L and PYBSR4C62L are identical products. The 2nd Order number was only introduced for explicite ordering and cabling)					

internal RAID controllers for PCIe SSD drives

PRAID EP540i RAID NVMe LP	4GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F4042-E224	S26361-F4042-L514
----------------------------------	-----------	--------------------------	----	-------------------	-------------------

PRAID EP580i RAID NVMe LP	8GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F4042-E228	S26361-F4042-L508
----------------------------------	-----------	--------------------------	----	-------------------	-------------------

for base unit PYR1335RAM / PYR1335RDM : 16 ports for NVMe PCIe SSD, based on LSI SAS3516
up to 4 x4 NVMe devices are supported. (the configuration for SAS/SATA only require a different order number, please see above)
includes FastPath and SafeStore Advanced SW-Licence, CacheCade is no longer supported
requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3516
(FYI: S26361-F4042-E214 and E224, S26361-F4042-E208 and E228 are identical products. The 2nd Order number was only introduced for explicite ordering and cabling)

Internal RAID controllers for SAS, SATA HDD or SSD drives -Cancelled-					
PRAID EP 3252-8i LP	2GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	PYBSR4MA1L	PY-SR4MA1
PRAID EP 3254-8i LP	4GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	PYBSR4MA2L	PY-SR4MA2
8 ports 6, 12 & 24Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander requires 1x LP PCIe 4.0 x8 (int.) slot					
PRAID EP 3258-16i LP	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	PYBSR4MA3L	PY-SR4MA3
16 ports 6, 12 & 24Gb/s SAS/SATA HDD/SSD, supports up to 16 SAS/SATA drives without expander (the configuration for up to 4 x4 NVMe drives requires a different order number, please see below) requires 1x LP PCIe 4.0 x8 (int.) slot (FYI: PYBSR4MA3L and PYBSR4MA4L are identical products. The 2nd Order number was only introduced for explicit ordering and cabling)					
optional Flash Backup Unit (FBU)					
FBU Option for PRAID EP325x: Supercap securing the power supply of the RAID controller in case of power failure including cable with 80cm length			1x	PYFBM013	PY-FBM01
FBU Option for PRAID EP325x: Supercap securing the power supply of the RAID controller in case of power failure including cable with 31cm length (for 2nd. Ctrl in PYR1335RAM) TBD			1x	PYFBM011	PY-FBM01
FBU Option for PRAID EP325x: Supercap securing the power supply of the RAID controller in case of power failure including cable with 46cm length (for short depth model)			1x	PYFBM012	PY-FBM01

Internal RAID controllers for PCIe SSD drives -Cancelled-					
PRAID EP 3258-16i NVMe LP	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	PYBSR4MA4L	PY-SR4MA3
up to 4 x4 NVMe drives are supported. (the configuration for SAS/SATA only requires a different order number, please see above) requires 1x LP PCIe 4.0 x8 (int.) slot (FYI: PYBSR4MA3L and PYBSR4MA4L are identical products. The 2nd Order number was only introduced for explicit ordering and cabling)					
optional Flash Backup Unit (FBU)					
FBU Option for PRAID EP325x: Supercap securing the power supply of the RAID controller in case of power failure including cable with 80cm length			1x	PYFBM013	PY-FBM01
FBU Option for PRAID EP325x: Supercap securing the power supply of the RAID controller in case of power failure including cable with 46cm length (for short depth model)			1x	PYFBM012	PY-FBM01

PSAS CP 2100-8i and PRAID EP540i NVMe / EP580i NVMe / EP680i NVMe cannot be mixed

maximum number of internal RAID + HBA (See also pictures on folder base):
standard config: max. 1
for PYR1335RAM only: max. 2x controllers: one PRAID EP540i / EP580i / EP680i NVMe or PRAID EP 3258-16i NVMe for 4x NVMe; onboard or second PRAID EP540i / EP580i / EP680i / EP 3258-16i or first EP520i / EP640i / EP 3252-8i / EP 3254-8i / CP500i / CP600i or first PSAS CP503i / CP600i / CP 2100-8i contr. for 4x SAS/SATA

up to 1x FBU can be integrated per System
for PRAID EP540i / EP580i / EP680i NVMe, no FBU is allowed (performance)

Expander configurations: Use PRAID EPxxx for optimal performance

Cable kit for upgrade cards: For upgrade L-parts RAID/HBA controller card, L-parts Cable kit is required.
Cable Kit for EP6xxi/CP6xxi w/ standard: PY-CBS093 for standard base units
Cable Kit for EP6xxi/CP6xxi w/ short: PY-CBS094 for short depth base units

PRAID EP 3252-8i / EP 3254-8i / EP 3258-16i and PRAID EP540i NVMe / EP580i NVMe / EP680i NVMe cannot be mixed

PRAID EP 3258-16i NVMe and PSAS CP503i / CP600i / PRAID CP500i / CP600i / EP520i / EP540i / EP580i / EP640i / EP680i cannot be mixed

G

external HBA controller, no 2nd Level cache

external HBA controllers for SAS HDD or SSD drives					
PSAS CP600e LP	No Cache	HBA, no RAID	2x	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					
external HBA controllers for SAS HDD or SSD drives					
PSAS CP500e HBA SAS Contr. LP	No Cache	HBA, no RAID	2x	PYBSC3FBEL	PY-SC3FBE
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, 2x SFF8644 (external Mini-SAS HD) requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3408; IT FW stack without RAID functionality					

H

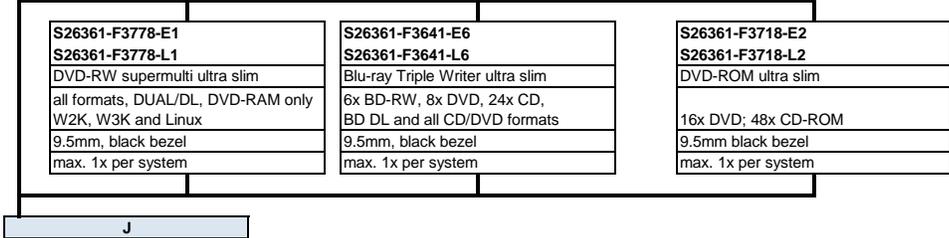
Chapter 8 - ODD optical disk drives

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



I
Config with 1x 9.5mm bay

No ODD for 10x 2,5" HDD and short depth base units.



Chapter 10 - storage drives

J

SAS drives and SATA drives can be mixed, but cannot be used in one logical RAID volume.
 SAS drives require a dedicated SAS / RAID Controller
 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.
 512e HDD Disk Drives: VMware 6.0 or earlier is not supported.
 When using SSDs with VMware ESXi, select the SSDs that meet the endurance requirement described in KB2145210 below.
<https://kb.vmware.com/kb/2145210>
 DWPD: Drive Writes Per Day over 5 years.
 SED (=Self Encrypting Drives) require either a RAID controller with "SafeStore (SED) support or an HBA and in addition a software instance, supporting SED Key Management.
 It is strongly recommended to order SafeStore (SED) RAID controller with SED HDD or SSD devices for SafeStore (SED) functionality.
HDD Classes:
 Economic (ECO) SATA: Entry Class Drives.
 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.
Warranty:
 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 SAS 2.5" Write Intensive (SFF) Enterprise with hot plug/hot replace tray
 based on **Seagate Nytro3732** drives

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
400GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		PYBSS40NGA	PY-SS40NGA
800GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		PYBSS80NGA	PY-SS80NGA
1.6TB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		PYBSS16NGA	PY-SS16NGA
400GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	PYBSS40NGW	PY-SS40NGW
800GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	PYBSS80NGW	PY-SS80NGW
1.6TB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	PYBSS16NGW	PY-SS16NGW

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

SSD SAS 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray
 based on **Seagate Nytro3532** drives

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
800GB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		PYBSS80NPF	PY-SS80NPF
1.6TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		PYBSS16NPF	PY-SS16NPF
3.2TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		PYBSS32NPF	PY-SS32NPF
6.4TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		PYBSS64NPF	PY-SS64NPF

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

SSD SAS 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray
 based on **Seagate Nytro3332** drives

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
960GB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		PYBSS96NNJ	PY-SS96NNJ
1.92TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		PYBSS19NNH	PY-SS19NNH
3.84TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		PYBSS38NNH	PY-SS38NNH
7.68TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		PYBSS76NNH	PY-SS76NNH
15.36TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		PYBSS15NNG	PY-SS15NNG

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

The SSDs not released with PRAID CP500i

will be available in CQ2'24

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 be used as Non-SED drives, but it requires a RAID controller with SED support for using as SED drives.
 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 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 - depending on base unit & configuration							

SSD SATA 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray							
based on Micron 5300 MAX drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
240GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		S26361-F5776-E240	S26361-F5776-L240
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		S26361-F5776-E480	S26361-F5776-L480
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		S26361-F5776-E960	S26361-F5776-L960
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		S26361-F5776-E192	S26361-F5776-L192
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,5		S26361-F5776-E384	S26361-F5776-L384
max. 4x or 10x - depending on base unit & configuration							

The SSDs not released with PRAID CP500i

will be available in CQ2'24

SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray							
based on Samsung PM893a drives							
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-SS96NME
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBSS19NME	PY-SS19NME
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBSS38NME	PY-SS38NME
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBSS76NME	PY-SS76NME
This SSDs can be used as Non-SED drives, but it requires a RAID controller with SED support for using as SED drives.							
max. 4x or 10x - depending on base unit & configuration							

SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace 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 base unit & configuration							

SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray							
based on Micron 5300 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		S26361-F5783-E240	S26361-F5783-L240
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5		S26361-F5783-E480	S26361-F5783-L480
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5		S26361-F5783-E960	S26361-F5783-L960
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5		S26361-F5783-E192	S26361-F5783-L192
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,2		S26361-F5783-E384	S26361-F5783-L384
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,6		S26361-F5783-E768	S26361-F5783-L768
max. 4x or 10x - depending on base unit & configuration							

2.5" (SFF) Hard drives

EOL, as long as stock available

HDD SAS 2.5" 15K (SFF) Enterprise Mission Critical with hot plug/hot replace tray						
Capacity	RPM	Interface	Sector		order code E-part	order code L-part
300GB	15 000	SAS 12Gb/s	512n		S26361-F5727-E530	S26361-F5727-L530
600GB	15 000	SAS 12Gb/s	512n		S26361-F5727-E560	S26361-F5727-L560
900GB	15 000	SAS 12Gb/s	512n		S26361-F5531-E590	S26361-F5531-L590
max. 4x or 10x - depending on base unit & configuration						

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		S26361-F5729-E130	S26361-F5729-L130
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
300GB	10 000	SAS 12Gb/s	512n	SED	PYBSH301EU	PY-SH301EU
600GB	10 000	SAS 12Gb/s	512n	SED	PYBSH601EU	PY-SH601EU
1.2TB	10 000	SAS 12Gb/s	512n	SED	PYBSH121EU	PY-SH121EU
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
600GB	10 000	SAS 12Gb/s	512e		S26361-F5730-E160	S26361-F5730-L160
1.2TB	10 000	SAS 12Gb/s	512e		S26361-F5730-E112	S26361-F5730-L112
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
1.8TB	10 000	SAS 12Gb/s	512e	SED	PYBSH181DU	PY-SH181DU
2.4TB	10 000	SAS 12Gb/s	512e	SED	S26361-F5582-E124	S26361-F5582-L124
max. 4x or 10x - depending on base unit & configuration						

EOL, as long as stock available

HDD SATA 2.5" 7.2K 512n (SFF) Enterprise Business Critical with hot plug/hot replace tray						
Capacity	RPM	Interface	Sector		order code E-part	order code L-part
1TB	7 200	SATA 6Gb/s	512n		S26361-F3956-E100	S26361-F3956-L100
2TB	7 200	SATA 6Gb/s	512n		S26361-F3956-E200	S26361-F3956-L200
max. 4x or 10x - depending on base unit & configuration						

The HDDs not released with PRAID EP5x0i (S26361-F4042-E202/E204/E208)

EOL, as long as stock available

HDD SATA 2.5" 7.2K 512e (SFF) Enterprise Business Critical with hot plug/hot replace tray						
Capacity	RPM	Interface	Sector		order code E-part	order code L-part
1TB	7 200	SATA 6Gb/s	512e		S26361-F3907-E100	S26361-F3907-L100
2TB	7 200	SATA 6Gb/s	512e		S26361-F3907-E200	S26361-F3907-L200
max. 4x or 10x - depending on base unit & configuration						

K

K

3.5" (LFF) SATA SSD

The SSDs not released with PRAID CP500i

will be available in CQ2'24

SSD SATA 3.5" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray							
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-SED drives, but it requires a RAID controller with SED support for using as SED drives.							
max. 4x - depending on base unit & configuration							

SSD SATA 3.5" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace 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 - depending on base unit & configuration							

SSD SATA 3.5" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray							
based on Micron 5300 MAX drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
240GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		S26361-F5775-E240	S26361-F5775-L240
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		S26361-F5775-E480	S26361-F5775-L480
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		S26361-F5775-E960	S26361-F5775-L960
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		S26361-F5775-E192	S26361-F5775-L192
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,5		S26361-F5775-E384	S26361-F5775-L384
max. 4x - depending on base unit & configuration							

The SSDs not released with PRAID CP500i

will be available in CQ2'24

SSD SATA 3.5" Read Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray							
based on Samsung PM893a drives							
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-SED drives, but it requires a RAID controller with SED support for using as SED drives.							
max. 4x - depending on base unit & configuration							

SSD SATA 3.5" Read Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray							
based on Samsung PM893 drives							
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-TS24NM9
480GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0		PYBTS48NM9	PY-TS48NM9
960GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0		PYBTS96NM9	PY-TS96NM9
1.92TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0		PYBTS19NM9	PY-TS19NM9
3.84TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0		PYBTS38NM9	PY-TS38NM9
7.68TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0		PYBTS76NM9	PY-TS76NM9
max. 4x - depending on base unit & configuration							

SSD SATA 3.5" Read Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray							
based on Micron 5300 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		S26361-F5782-E240	S26361-F5782-L240
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5		S26361-F5782-E480	S26361-F5782-L480
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5		S26361-F5782-E960	S26361-F5782-L960
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5		S26361-F5782-E192	S26361-F5782-L192
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,2		S26361-F5782-E384	S26361-F5782-L384
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,6		S26361-F5782-E768	S26361-F5782-L768
max. 4x - depending on base unit & configuration							

EOL, as long as stock available

3.5" (LFF) Hard drives

HDD SAS 3.5" 15K (LFF) 2.5" HDD Enterprise Mission Critical with 3.5" hot plug/hot replace tray						
Capacity	RPM	Interface	Sector		order code E-part	order code L-part
300GB	15 000	SAS 12Gb/s	512n		S26361-F5726-E530	S26361-F5726-L530
600GB	15 000	SAS 12Gb/s	512n		S26361-F5726-E560	S26361-F5726-L560
900GB	15 000	SAS 12Gb/s	512n		S26361-F5532-E590	S26361-F5532-L590
max. 4x - depending on base unit & configuration						

HDD SAS 3.5" 7.2K 512n (LFF) Enterprise Business Critical with hot plug/hot replace tray						
Capacity	RPM	Interface	Sector		order code E-part	order code L-part
2TB	7 200	SAS 12Gb/s	512n		PYBCH2T7G4	PY-CH2T7G4
4TB	7 200	SAS 12Gb/s	512n		PYBCH4T7G4	PY-CH4T7G4
max. 4x - depending on base unit & configuration						

HDD SAS 3.5" 7.2K 512e (LFF) Enterprise Business Critical with hot plug/hot replace tray						
Capacity	RPM	Interface	Sector		order code E-part	order code L-part
6TB	7 200	SAS 12Gb/s	512e		PYBCH6T7B9	PY-CH6T7B9
8TB	7 200	SAS 12Gb/s	512e		S26361-F5635-E800	S26361-F5635-L800
12TB	7 200	SAS 12Gb/s	512e		PYBCHCT7B7	PY-CHCT7B7
14TB	7 200	SAS 12Gb/s	512e		PYBCHET7B6	PY-CHET7B6
16TB	7 200	SAS 12Gb/s	512e		S26361-F5571-E160	S26361-F5571-L160
18TB	7 200	SAS 12Gb/s	512e		PYBCHJT7B2	PY-CHJT7B2
6TB	7 200	SAS 12Gb/s	512e	SED	PYBCH6T7BU	PY-CH6T7BU
8TB	7 200	SAS 12Gb/s	512e	SED	S26361-F5584-E800	S26361-F5584-L800
12TB	7 200	SAS 12Gb/s	512e	SED	PYBCHCT7BW	PY-CHCT7BW
14TB	7 200	SAS 12Gb/s	512e	SED	PYBCHET7BV	PY-CHET7BV
16TB	7 200	SAS 12Gb/s	512e	SED	S26361-F5624-E160	S26361-F5624-L160
18TB	7 200	SAS 12Gb/s	512e	SED	PYBCHJT7BT	PY-CHJT7BT
max. 4x - depending on base unit & configuration						

L

HDD SATA 3.5" 7.2K 512n (LFF) Enterprise Business Critical with hot plug/hot replace tray						
Capacity	RPM	Interface	Sector		order code E-part	order code L-part
1TB	7 200	SATA 6Gb/s	512n		PYBBH1T7B9	PY-BH1T7B9
2TB	7 200	SATA 6Gb/s	512n		PYBBH2T7B9	PY-BH2T7B9
4TB	7 200	SATA 6Gb/s	512n		PYBBH4T7B9	PY-BH4T7B9
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		order code E-part	order code L-part
6TB	7 200	SATA 6Gb/s	512e		PYBBH6T7E9	PY-BH6T7E9
8TB	7 200	SATA 6Gb/s	512e		S26361-F5638-E800	S26361-F5638-L800
12TB	7 200	SATA 6Gb/s	512e		PYBBHCT7E4	PY-BHCT7E4
14TB	7 200	SATA 6Gb/s	512e		PYBBHET7E4	PY-BHET7E4
16TB	7 200	SAS 12Gb/s	512e		S26361-F3904-E160	S26361-F3904-L160
18TB	7 200	SAS 12Gb/s	512e		PYBBHJT7E2	PY-BHJT7E2
max. 4x - depending on base unit & configuration						

M.2 SATA SSD

SSD SATA M.2 drive for booting, non hot-plug, for VMware ESXi						
Capacity	Formfactor	Interface		Category	order code E-part	order code L-part
240GB	M.2	SATA 6Gb/s		Boot	S26361-F5816-E240	S26361-F5816-L240
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 CP100.						

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

SSD SATA M.2 drive for booting, non hot-plug						
Capacity	Formfactor	Interface	DWPD	Category	order code E-part	order code L-part
240GB	M.2	SATA 6Gb/s	1,5	Boot	S26361-F5787-E240	S26361-F5787-L240
480GB	M.2	SATA 6Gb/s	1,5	Boot	S26361-F5787-E480	S26361-F5787-L480
960GB	M.2 2280	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 CP100.						

Dual M.2

PDUAL CP100 and M.2 drive on Motherboard cannot be mixed

PDUAL CP100, 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	PYBDMCP24L	PY-DMCP24

PDUAL CP100 is a carrier 2x M.2 SATA modules and offers RAID1 with 2x M.2 modules.
 PDUAL CP100 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 RAID.
 Supported RAID level : RAID1 only, 2x M.2 modules need to be ordered separately.
 Supported M.2 Modules : SSD SATA M.2 240GB/480GB, and 240GB for VMware ESXi. (S26361-F5787-E240/L240/E480/L480 or S26361-F5816-E240/L240)
Windows 2022 support: For PY-DMCP24, Firmware Package 2.3.21.2009 or later is required. PYBDMCP24L is shipped with the required Firmware Package
To manage the CP100, iRMC 1.13S or later is required
 max. 1x per Server, requires 2x SSD SATA M.2 drives.

RAID PRESET option

Component	order code E-part	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 CP100 ex factory.
 max. 1x per Server, requires 1x PDUAL CP100.

2.5" (SFF) PCIe-SSD

2.5" PCIe-SSDs require a RAID Controller

will be available in CQ2 '24

PCIe-SSD 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray

based on **Kioxia CM7-V** drives

Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part
1.6TB	2.5" (SFF)	PCIe5.0 x4	Mixed Use	3	PYBBS16PDB	PY-BS16PDB
3.2TB	2.5" (SFF)	PCIe5.0 x4	Mixed Use	3	PYBBS32PDB	PY-BS32PDB
6.4TB	2.5" (SFF)	PCIe5.0 x4	Mixed Use	3	PYBBS64PDB	PY-BS64PDB
12.8TB	2.5" (SFF)	PCIe5.0 x4	Mixed Use	3	PYBBS12PDB	PY-BS12PDB

max. 4x - depending on base unit & configuration

EOL, as long as stock available

PCIe-SSD 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray

based on **Kioxia CM6-V** drives

Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part
1.6TB	2.5" (SFF)	PCIe4.0 x4	Mixed Use	3	PYBBS16PD6	PY-BS16PD6
3.2TB	2.5" (SFF)	PCIe4.0 x4	Mixed Use	3	PYBBS32PD6	PY-BS32PD6
6.4TB	2.5" (SFF)	PCIe4.0 x4	Mixed Use	3	PYBBS64PD6	PY-BS64PD6
12.8TB	2.5" (SFF)	PCIe4.0 x4	Mixed Use	3	PYBBS12PD6	PY-BS12PD6

max. 4x - depending on base unit & configuration

will be available in CQ2 '24

PCIe-SSD 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray

based on **Kioxia CM7-R** drives

Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part
1.92TB	2.5" (SFF)	PCIe5.0 x4	Read Intensive	1	PYBBS19PEA	PY-BS19PEA
3.84TB	2.5" (SFF)	PCIe5.0 x4	Read Intensive	1	PYBBS38PEA	PY-BS38PEA
7.68TB	2.5" (SFF)	PCIe5.0 x4	Read Intensive	1	PYBBS76PEA	PY-BS76PEA
15.36TB	2.5" (SFF)	PCIe5.0 x4	Read Intensive	1	PYBBS15PEB	PY-BS15PEB

max. 4x - depending on base unit & configuration

EOL, as long as stock available

PCIe-SSD 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray

based on **Kioxia CM6-R** drives

Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part
960GB	2.5" (SFF)	PCIe4.0 x4	Read Intensive	1	PYBBS96PE6	PY-BS96PE6
1.92TB	2.5" (SFF)	PCIe4.0 x4	Read Intensive	1	PYBBS19PE6	PY-BS19PE6
3.84TB	2.5" (SFF)	PCIe4.0 x4	Read Intensive	1	PYBBS38PE6	PY-BS38PE6
7.68TB	2.5" (SFF)	PCIe4.0 x4	Read Intensive	1	PYBBS76PE6	PY-BS76PE6
15.36TB	2.5" (SFF)	PCIe4.0 x4	Read Intensive	1	PYBBS15PE6	PY-BS15PE6

max. 4x - depending on base unit & configuration

M

Chapter 11 - Communications / Ethernet Network Components

M

PRIMERGY RX1330 M5 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

Intel 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				

Broadcom 1GbE BEASE-T for PCIe				
PLAN CP BCM5719-4P 4X 1000BASE-T PCIe LP	2x	Broadcom, 1GTx4port	PYBLA284L	PY-LA284
max. 2x adapters per system				

Intel 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
max. 3x adapters per server system				

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				

Intel 10GbE for PCIe				
Each cage consumes 1x optical SFP+ transceiver per port. Dual rate 10G/1G support requires 10G/1G Dual Rate SFP+ Optical Transceiver Modules. All ports on this card need to install the same Parts Number of optical module.				
PLAN EP X710-DA2 2x10Gb SFP+ LP	2x	Intel, 10Gx2port	S26361-F3640-E202	S26361-F3640-L502
Optional, 10Gb SFP+ optical transceiver module, select one per cage				
SFP+ Optical Transceiver 10G Single Rate SR	2x	Finisar, 10G SR SFP+	S26361-F3986-E3	S26361-F3986-L3
SFP+ Optical Transceiver 10G Single Rate LR	2x	Finisar, 10G LR SFP+	S26361-F3986-E4	S26361-F3986-L4
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x	Intel, 1G/10G SR SFP+	S26361-F3986-E5	S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x	Intel, 1G/10G LR SFP+	S26361-F3986-E6	S26361-F3986-L6
max. 1x per port				
max. 2x adapters per system				

Broadcom 10GbE for PCIe				
Each cage consumes 1x optical SFP+ transceiver per port. Dual rate 10G/1G support requires 10G/1G Dual Rate SFP+ Optical Transceiver Modules. All ports on this card need to install the same Parts Number of optical module.				
PLAN EP P210P 2x10Gb SFP PCIe LP	2x	Broadcom, 10Gx2port	PYBLA3J2L	PY-LA3J2
Optional, 10Gb SFP+ optical transceiver module, select one per cage				
SFP+ Optical Transceiver 10G Single Rate SR	2x	Finisar, 10G SR SFP+	S26361-F3986-E3	S26361-F3986-L3
SFP+ Optical Transceiver 10G Single Rate LR	2x	Finisar, 10G LR SFP+	S26361-F3986-E4	S26361-F3986-L4
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x	Intel, 1G/10G SR SFP+	S26361-F3986-E5	S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x	Intel, 1G/10G LR SFP+	S26361-F3986-E6	S26361-F3986-L6
max. 1x per port				
max. 2x adapters per system				

Intel 25GbE for PCIe				
Each cage consumes 1x optical SFP28 or SFP+ transceiver per port. Intel adapters support 1Gbps line rate per-port in addition, with the Intel-branded 10G/1G Dual Rate SFP+ Optical Transceiver Modules. All ports on this card need to install the same Parts Number of optical module. 10G SFP BTO is not available for 25G cards, please select L parts.				
PLAN EP E810-XXVDA2 2x25Gb LP	2x	Intel, 25Gx2port	PYBLA402L	PY-LA402
Optional, 25Gb SFP28 optical transceiver module with LC connector, each cage consumes one.				
SFP28 Optical Transceiver 25G SR E25GSFP28SRX LC	2x	MMF / SR SFP28 module, Intel. Max reach supported 30m	PYBSFPS56	PY-SFPS56
<i>max. 1x per port</i>				
Optional, 10Gb SFP+ optical transceiver module, each cage consumes one.				
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x	Intel, 1G/10G SR SFP+		S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x	Intel, 1G/10G LR SFP+		S26361-F3986-L6
<i>max. 1x per port</i>				
<i>max. 3x adapters per system</i>				
Mellanox 25GbE for PCIe				
Each cage consumes 1x optical SFP28 or SFP+ transceiver per port. All ports on this card need to install the same Parts Number of optical module. 10G SFP BTO is not available for 25G cards, please select L parts.				
PLAN EP MCX4-LX 25Gb 2p SFP28 LP	2x	Mellanox, 25Gx2port	S26361-F4054-E202	S26361-F4054-L502
Optional, 25Gb SFP28 optical transceiver module with LC connector, each cage consumes one.				
SFP28 Optical Transceiver 25G SR MMA2P00-AS LC	2x	Mellanox, 25G SR SFP28	S26361-F4054-E701	S26361-F4054-L701
<i>max. 1x per port</i>				
Optional, 10Gb SFP+ optical transceiver module, each cage consumes one.				
SFP+ Optical Transceiver 10G Single Rate SR	2x	Finisar, 10G SR SFP+		S26361-F3986-L3
SFP+ Optical Transceiver 10G Single Rate LR	2x	Finisar, 10G LR SFP+		S26361-F3986-L4
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x	Intel, 1G/10G SR SFP+		S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x	Intel, 1G/10G LR SFP+		S26361-F3986-L6
<i>max. 1x per port</i>				
<i>max. 3x adapters per system</i>				

N

Chapter 12 - Communications / Fibre Channel Components

N

Fibre Channel PCIe Adapters

32Gb Fibre Channel adapter with LC interface for 50µm optical cables (OM4 or OM3)				
PFC EP LPe35002 2x 32Gb LP	2x	Broadcom, 32GFCx2port	PYBFC422L	PY-FC422
PFC EP LPe35000 1x 32Gb LP	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 50µm optical cables (OM4 or OM3)				
PFC EP LPe31002 2x 16Gb LP	2x	Broadcom, 16GFCx2port	S26361-F5596-E202	S26361-F5596-L502
PFC EP LPe31000 1x 16Gb LP	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)				

O

Chapter 14 - Power supply unit, power cable, certifications, region kits

M			
Power supply unit			
modular redundant Power Supply			
PSU for redundancy			
occupies hot plug PSU slot, min. 1 / max. 2x per system			
input nominal voltage (AC): 100V-240V, max: 90V-264V; input dropout: 10ms/100% load, 47Hz-63Hz			
500W platinum PSU	94% eff.	Connector type: C13	PYBPU501 PY-PU501
500W titanium PSU	96% eff.	Connector type: C13, nom. 220-240V, max. 180-264V *available from 2022, Dec.	PYBPU503 PY-PU503
900W platinum PSU	94% eff.	Connector type: C13 *not support for short depth base units	PYBPU902 PY-PU902
900W titanium PSU	96% eff.	Connector type: C13, nom. 220-240V, max. 180-264V *not support for short depth base units	PYBPU901 PY-PU901
FJBU: 4 min. backup time for graceful shutdown, max 1 per system			
Fujitsu Battery Unit		380W(peak), 280W(continuous) 12V battery module	PYBBG04 PY-BBG04
Dummy module instead PSU			
Dummy module for closing the 2nd PSU hole, in case only 1 PSU is equipped, max. 1x per system			S26113-F574-E99
FJBU: 4 min. backup time for graceful shutdown, max 1 per system *will be available CY2023, 1Q.			
Power cord option for Rack Server, 1x per PSU			
Cable powercord rack, 1.8m, black, IEC 320 C14 -> C13 (10A plug)			T26139-Y1968-E180 T26139-Y1968-L180
Cable powercord rack, 2.5m, black, IEC 320 C14 -> C13 (10A plug)			T26139-Y1968-E250 T26139-Y1968-L250
Cable powercord rack, 4m, black, IEC 320 C14 -> C13 (10A plug)			T26139-Y1968-E100 T26139-Y1968-L10
Cable powercord (USA) 15A, 1.8m, black, NEMA 5-15 connector 498G -> C13 (plug), 15A, , rack or wall			T26139-Y1741-E90 T26139-Y1741-L90
Cable powercord (Thailand), 1.8m, rack or wall			T26139-Y1753-E10 T26139-Y1753-L10
Cable powercord (Taiwan), 1.8m, rack or wall			T26139-Y1757-E10 T26139-Y1757-L10
Cable powercord (D, A, B, F, NL, FIN, N, S, E, P, RUS, TR), 1.8m, grey			T26139-Y1740-L10
Cable powercord (UK, IR), 1.8m, grey			T26139-Y1744-L10
Cable powercord (I), 1.8m, grey			T26139-Y1745-L10
Cable powercord (DK), 1.8m, grey			T26139-Y1746-L10
Cable powercord (ISR), 2.5m, black			T26139-Y1747-L18
no power cord			T26139-Y3850-E10
Std to Redundant PSU Upgrade Kit			
includes PSU cage and power backplane			PY-TKPC03
Region Kits, required to order one of them, 1x per System			
Region Kit APAC/EMEA, Contains warranty sheet and safety instructions for APAC and EMEA	S26361-F1452-E100		-
Region Kit America, Contains warranty sheet, registration hints and safety instructions for America	S26361-F1452-E130		-
Region Kit Europe, Contains warranty sheet and safety instructions in German, English, French, Spanish, Italian, Polish,	S26361-F1452-E140		-
Region Kit China for CCC option required systems, Contains warranty sheet and safety instructions for China,	S26361-F1452-E101		-
(Sales region for EMEA only)			
(Sales region for APAC only)			
Certifications, optional 1x per system			
Certification for China, (CCC), Reduced component selection possible, only with no power cord option	S26361-F3301-E120		-
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

O

Chapter 16 - others (Energy Star restrictions)

P

<p style="color: red; font-size: small;">will be expired after 2024-1-11</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>S26361-F3301-E241</td></tr> <tr><td>E-Star Fam1 Certification</td></tr> <tr><td>RX/TX13x0 Mx E-Star Fam1</td></tr> <tr><td>Limits configuration in accordance with Energy Star requirements</td></tr> <tr><td>max. 1x per system</td></tr> </table>	S26361-F3301-E241	E-Star Fam1 Certification	RX/TX13x0 Mx E-Star Fam1	Limits configuration in accordance with Energy Star requirements	max. 1x per system	<p style="color: red; font-size: small;">will be effective after 2024-1-12</p> <table border="1" style="width: 100%; border-collapse: collapse; background-color: yellow;"> <tr><td>PYBES21</td></tr> <tr><td>E-Star Fam1 Certification</td></tr> <tr><td>RX/TX13x0 Mx E-Star Fam1</td></tr> <tr><td>Limits configuration in accordance for ENERGY STAR V4.0</td></tr> <tr><td>max. 1x per system</td></tr> </table>	PYBES21	E-Star Fam1 Certification	RX/TX13x0 Mx E-Star Fam1	Limits configuration in accordance for ENERGY STAR V4.0	max. 1x per system
S26361-F3301-E241											
E-Star Fam1 Certification											
RX/TX13x0 Mx E-Star Fam1											
Limits configuration in accordance with Energy Star requirements											
max. 1x per system											
PYBES21											
E-Star Fam1 Certification											
RX/TX13x0 Mx E-Star Fam1											
Limits configuration in accordance for ENERGY STAR V4.0											
max. 1x per system											

limitations for E-Star Fam1 certification.

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

<ENERGY STAR V3.0 / S26361-F3301-E241>

- use 2x redundant PSU
- do not use one of the following CPUs : Pentium Gold G6405; Xeon E-2314/E-2324G
- use total 16GB or more DIMMs
- do not use more than 8x 2.5" (SFF) HDD, SSD *10x 2.5" base unit is not supported.
- do not use more than two PCIe cards (RAID, LAN, ...) (two is ok)
- 4x 2.5" SAS/SATA short depth base units are not supported.

<ENERGY STAR V4.0 / PYBES21>

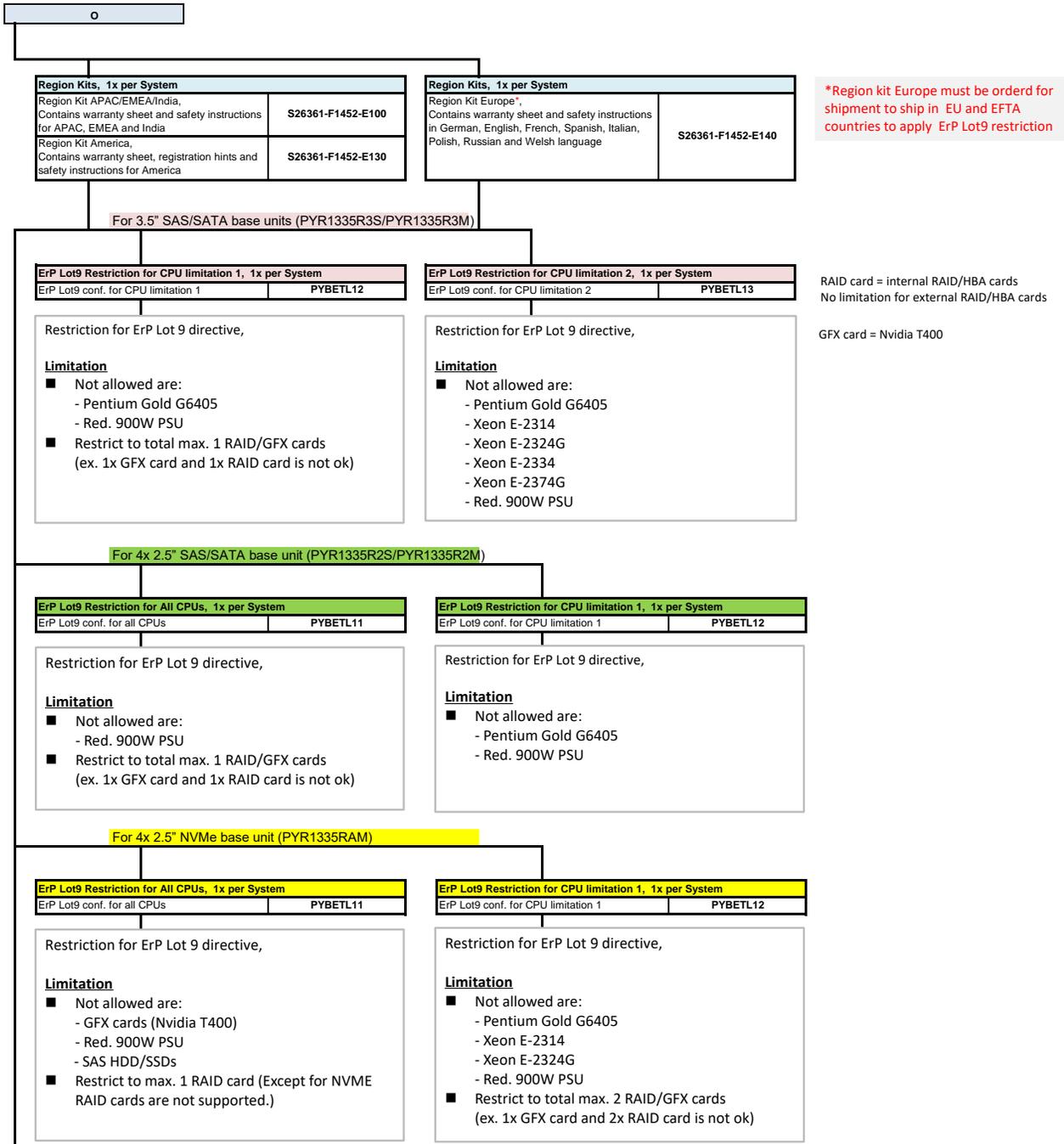
- use one of the following CPUs : Xeon E-2378G/E-2388G
- use total 64GB or more DIMMs
- use less than five SATA SSDs(Max. 4x: including M.2 SSD) / do not use any HDDs
- do not use any PCIe cards (RAID, LAN, ...)

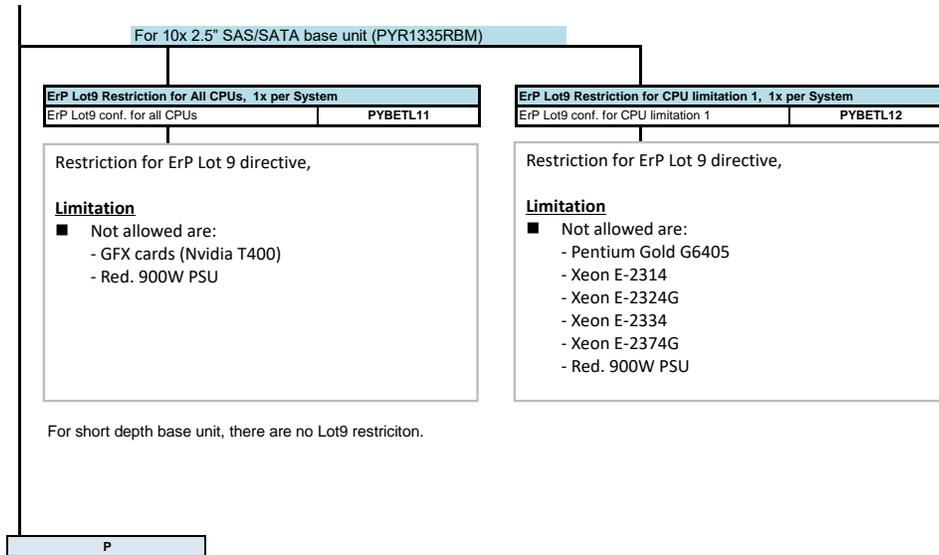
ENERGY STAR-configurationen will be labeld: PRIMERGY RX1330 M5 E-Star Fam1
 non ENERGY STAR-configurationen will be labeld: PRIMERGY RX1330 M5

Serial port option is not relevant for E-Star

Q

Chapter 16 - others (ErP Lot 9 restriction)





Chapter 16 - others

Q

PYBRMC44
PY-RMC44
 iRMC advanced pack
 integrated remote Management controller activation key for graphical console redirection and remote media redirection
 max. 1x per system

iRMC S6 (integrated Remote Management Controller) onboard server mgmnt with dedicated 10/100/1000 LAN-port and integrated graphics controller.

PYBLCM14
embedded Lifecycle Management (eLCM)
 Server Online Update
 OS driver Update
 Hardware firmware update
 Server Offline Update
 Hardware update via Update Manager Express
 PrimeCollect
 Autonomous creation of Primecollect archives
 Creation and use of PrimeCollect archives over AIS connect
 Custom Image (Jukebox function)
 Automatic and manual download of CD and DVD Images
 Automatic and manual start of CD and DVD Images
 max. 1x per system

Executing system updates, controlling the hardware setup or running diagnostic tests on components are frequent tasks of IT administrators to ensure a continuous 24x7 server operation. ServerView embedded Lifecycle Management (eLCM) for Fujitsu PRIMERGY servers greatly supports such routine tasks by consolidating and enhancing management functions directly available ("embedded") within the server.

Loose delivery
 eLCM Activation Pack (Node Locked License)
PY-LCM14
options contains:
 - Paper with TAN for Licensekey

will be available in CQ4'24

iRMC MicroSD card option			
Capacity	Interface	E-parts	L-parts
64GB	SDXC	PYBMD64R1	PY-MD64R1
128GB	SDXC	PYBMD12R1	PY-MD12R1
max. 1x per system, instead of 16GB MicroSD card			

S26361-F3776-E340
 Cool-safe © Advanced Thermal design see right side
 enables the PRIMERGY Server to cope with temperatures from 5-40° in operating mode due to extended Fan settings
 this setting can be activated ex factory only
 max. 1x per system

general rules for ATD40 and ATD45:
 ATD40 and ATD45 use high performance cooling components
 95W CPU: no ATD40 or ATD45
 Nvidia T400: no ATD40 or ATD45
 Fujitsu Battery Unit: no ATD40 or ATD45
 PYR1335R3S, PYR1335R2S (std. PSU base units) does not support ATD45
 PYR1335RBM (10xSFF) does not support ATD45
 PYR1335RAS, PYR1335RCM, PYR1335RDM (short depth) does not support ATD45

S26361-F3776-E345
 Cool-safe © Advanced Thermal design see right side
 enables the PRIMERGY Server to cope with temperatures from 5-45° in operating mode due to extended Fan settings
 this setting can be activated ex factory only
 max. 1x per system

PYR1335R3S	PYR1335R3M	PYR1335R2S	PYR1335R2M	PYR1335RBM	PYR1335RAM
std	red	std	red	red	red
LFF	LFF	SFF	SFF	10xSFF	NVMe, SFF
ATD40	ATD40	ATD40	ATD40	ATD40	ATD40
	ATD45		ATD45		ATD45
PYR1335RAS	PYR1335RCM	PYR1335RDM			
std	red	red			
SFF	SFF	SFF			
ATD40	ATD40	ATD40			



TPM module must not order for China region.

<p>S26361-F3552-E100 [EOL] S26361-F3552-L100 TPM 2.0 Module Microsoft Windows Server 2022 not support max. 1x per system</p>	<p>PYBTM16 PY-TPM16 TPM 2.0 Module Microsoft Windows Server 2022 only support required for Microsoft Windows Server 2022 max. 1x per system</p>	<p>PYBNTPM No TPM for WINSVR Either PYBTM16 or PYBNTPM is required with Windows Server 2022 max. 1x per system</p>
--	--	---

When using Windows Server 2022 as host OS, PYBTM16 / PY-TPM16 are required.
 In case Windows Server 2022 is guest OS, the TPM is not necessary.
 Support OS may vary by system.

S26361-F3552-E100/L100 are EOL at end-Sep 2022.
 PYBTM16/PY-TPM16 are currently available

<p>PYBCOM09 PY-COM09 serial port (RS232) mounted on a low profile PCIe slot, max. 1x per system max. 1x per system</p>
--

<p>PYBP847 PY-PRE847 Full height riser card kit Offers 1x FH PCIe 4.0 x8 slot, 1x full height PCIe cards with max. 168mm length will be inserted instead of Slot 2 and Slot 3 will be inserted into Slot 3 PCIe 4.0 x8 max. 1x per system</p>
--

<p>PYBFOP10 PY-FOP06 1U Front Bezel max. 1x per system</p>

Your Server is ready

Date of change	Configurator revision	Folder / order code / description	What has been changed / comment	Name
14.04.2022			First release	Y. Narita
15.04.2022		CPU	corrected CPU cache size of Xeon E-2388G	
22.04.2022		HD_SSD	corrected the description about "as soon as available" for SAS 16TB and SAS SED 16TB	Y. Sugiyama
02.05.2022		RAID	added OS support matrix for SW-RAID	T. Sudou
11.05.2022		HD_SSD / S26361-F5816-E240/L240 / updated	added the description "as soon as available" according to system T50 plan about VMware	Y. Sugiyama
19.05.2022		base, RAID	added PRAID CP600i, PSAS CP600i/e, PRAID EP640i/EP680i/EP680i NVMe	T. Sudou
30.05.2022		RAID	updated OS support matrix for SW-RAID, removed BSMI limitation from PSAS CP 2100-8i	T. Sudou
01.06.2022		GFX	Remove the MiniDP-DP ADAPTER condition	T. Sasaki
17.06.2022	1,08	change_history	Introduce this history table with a new style	
27.06.2022	1,09	RAID	added Cable Kit for EP6xx/CP6xx: PY-CBS093 and PY-CBS094	Y. Narita
14.07.2022	1.10	LAN	Added Broadcom LAN. PYBLA284L, PY-LA284 PYBLA3K2L, PY-LA3K2 PYBLA3J2L, PY-LA3J2	Y. Ikuta
01.08.2022	1.11	PSU	added new Titanium PSUs PYBPU503, PY-PU503, PY-PU503B8	Y. Narita
08.08.2022	1.12	LAN	Released some LAN cards. S26361-F4610-E204/S26361-F4610-L504 PYBLA344L / PY-LA344	Y. Ikuta
22.08.2022	1.13	others	updated Notes for TPM2.0	T. Sudou
25.08.2022	1.14	HD_SSD	removed the description "as soon as available" according T50 report	Y. Sugiyama
30.08.2022	1.15	LAN/FC	Released LAN/FC cards. PY-LA402/PYBLA402L PY-FC412/PYBFC412L PY-FC411/PYBFC411L S26361-F5580-E202/L502 S26361-F5580-E204/L504	Y. Ikuta
26.09.2022	1.16	HD_SSD	updated Notes on max. No for M.2 SATA SSD updated Notes for PDUAL CP100	T. Sudou
26.09.2022	1.16	RAID	added SLES15 SP4 to OS support matrix for SW-RAID updated FBU description to add EP6xx S26361-F4042-E155/E183, S26361-F4042-L110	T. Sudou
05.10.2022	1.17	base, PSU	added new titanium PSUs PYBPU901 / PY-PU901	J. Okubo, Y. Narita
21.10.2022	1.18	HD_SSD	updated the EOL status for SSD PCIe "Intel P4610/P4510" according to Sales Status added the HDD BC-SATA/SAS 20TB "PY-CHLT7B/PY-CHLT7BS/PY-BHLT7E" added the M.2 SSD SATA 960GB "PY-MF96YN"	Y. Sugiyama
27.10.2022	1.19	RAID, PSU	Corrected the description for S26361-F4042-E155 Updated the description for FJBU	Y. Narita
02.11.2022	1.20	RAID	updated the description for S26361-F4042-E155	T. Sudou
04.11.2022	1.21	HD_SSD	added RAID PRESET option S26361-F5659-E13	T. Sudou
04.11.2022	1.21	RAID	added RHEL 9 GA to OS support matrix for SW-RAID added PRAID EP 3252-8i PYBSR4MA1L, PY-SR4MA1 PRAID EP 3254-8i PYBSR4MA2L, PY-SR4MA2 PRAID EP 3258-16i (NVMe) PYBSR4MA3L, PYBSR4MA4L, PY-SR4MA3 FBU for EP 325x PYBERM011, PYBERM012, PYBERM013, PY-ERM01	T. Sudou
04.11.2022	1.21	base	added PRAID EP 3258-16i NVMe	T. Sudou
03.02.2023	1.22	RAID	added RHEL 8.7 to OS support matrix for SW-RAID updated availability schedules	T. Sudou
21.02.2023	1.23	PSU	added order code of Fujitsu Battery Unit PYBBG04 / PY-BBG04	Y. Narita
13.03.2023	1.24	RAID	updated availability schedules updated Note about PSAS CP 2100-8i mixed configurations	T. Sudou
18.04.2023	1.25	RAID	updated availability schedules	T. Sudou
15.05.2023	1.26	RAID	added RHEL 9.1 to OS support matrix for SW-RAID updated availability schedules	T. Sudou
19.05.2023	1.27	PSU, others	removed the description "will be available in CY2023, 2Q." about Fujitsu Battery Unit updated general rules for ATD40 and ATD45	Y. Narita
22.05.2023	1.28	HD_SSD	removed the BC-SATA/SAS 20TB due to release cancel updated availability schedules	Y. Sugiyama
13.06.2023	1.29	GFX	add L4LP card and updated availability schedules	Y. Sugiyama
15.06.2023	1.30	RAID	cancelled PSAS CP600i, PSAS CP600e, PRAID CP600i, PRAID EP 3252-8i, PRAID EP 3254-8i, PRAID EP 3258-16i, PRAID EP 3258-16i NVMe	T. Sudou
31.07.2023	1.31	HD_SSD	added the PCIe-SSD "Kioxia CM7 series"	Y. Sugiyama
31.07.2023	1.32	HD_SSD	revised the order codes for Kioxia CM7 15.36TB	Y. Sugiyama
07.08.2023	1.33	RAID	added RHEL 8.8, 9.2 and SLES15 SP5 to OS support matrix for SW-RAID	T. Sudou
23.08.2023	1.34	GFX	delete L4LP card	M. Takaoka
07.09.2023	1.35	HD_SSD	added the EOL status for HDD SAS 15K and HDD 2.5" BC-SATA/SAS	Y. Sugiyama
19.09.2023	1.36	Energy Star restrictions	added E-Star Fam1 Certification for ENERGY STAR V4.0	H.Okabe
22.09.2023	1.37	HD_SSD	updated availability schedules added the following drives as new products - Samsung PM897a/PM893a as SSD SATA	Y. Sugiyama
02.10.2023	1.38	RAM, others	Add new order code for 8GB UDIMM, and current BTO order code will be EOL Add new TPM	Konno, H
13.10.2023	1.39	HD_SSD	updated the EOL information for PCIe4-SSD	Y. Sugiyama
24.10.2023	1.40	CPU	added remark about Intel® Turbo Boost Technology	H.Okabe
30.10.2023	1.41	HD_SSD	revised the information about 2.5" SSD SATA for Samsung PM893a/PM897a	Y. Sugiyama
06.11.2023	1.42	RAID	updated Note for onboard SATA SW-RAID	T. Sudou
20.11.2023	1.43	Energy Star restrictions	added the guidelines for ENERGY STAR V4.0	H.Okabe
01.12.2023	1.44	Description	added embedded Lifecycle Management (eLCM) to recommended components	H.Okabe
05.12.2023	1.45	LAN	Deleting unnecessary information. Deleting 10G SFP E part numbers from the table of 25G cards because they are not orderable.	F. Kanega
19.12.2023	1.46	RAM	update PYBME08UG2 which is EOLed	Konno, H
20.12.2023	1.47	RAM	update PYBME08UG2 EOL date	Konno, H
22.12.2023	1.48	RAM	change PYBME08UG2 EOL date	Konno, H
16.02.2024	1.49	others	added the iRMC MicroSD card option for eLCM	Y. Sugiyama
01.03.2024	1.50	HD_SSD	added the restriction for SSD SATA PM893a/PM897a updated availability schedule	Y. Sugiyama
04.03.2024	1.51	others	remove PY-TPM19 and PYBTPM19 add PYBNTPM and information	KonnoH
07.03.2024	1.52	RAID	resumed PSAS CP600e	T. Sudou
25.03.2024	1.53	others	revised the description about iRMC MicroSD card option for eLCM	Y. Sugiyama