

PRIMERGY BX2560 M2

System configurator and order-information guide

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PRIMERGY Server

Instructions

This document contains basic product and configuration information that will enable you to configure your system via System-Architect.

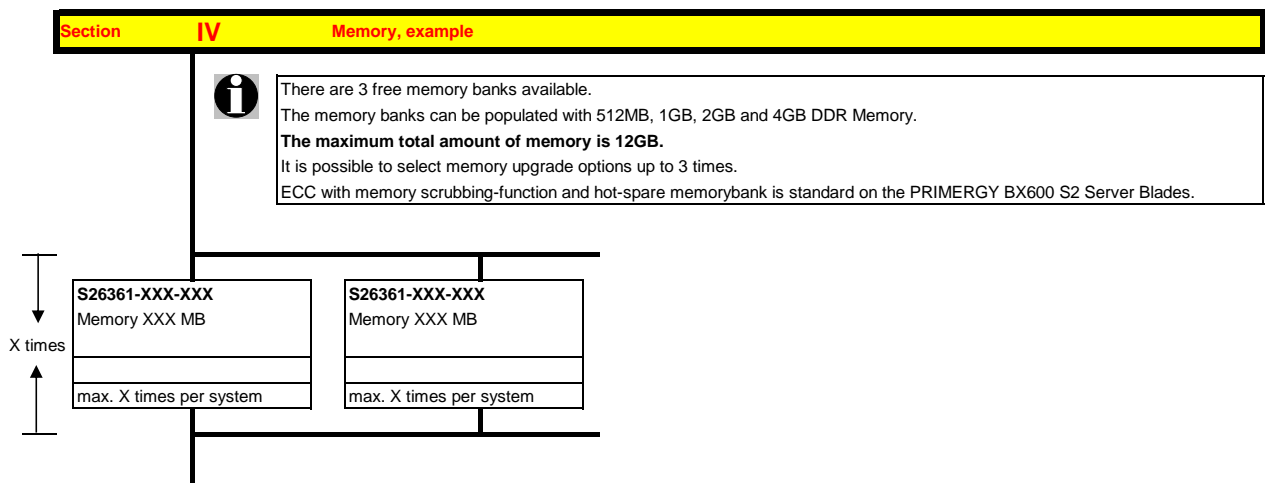
Only the tool "System-Architect" will ensure a fast and proper configuration of your PRIMERGY server or your complete PRIMERGY Rack system.

Please pay attention to the naming conventions: **BX2560 M2** Dual Server Blade M2

You can configure your individual PRIMERGY server in order to adjust your specific requirements.

The System configurator is divided into several chapters that are identical to the current price list and PC-/ System-Architect.

Please follow the lines. If there is a junction, you can choose which way or component you would like to take. Go through the configurator by following the lines from the top to the bottom.



In one chapter you can only select as many components (here 3x) as the arrow indicates.



Please note that there are information symbols which indicate necessary information.



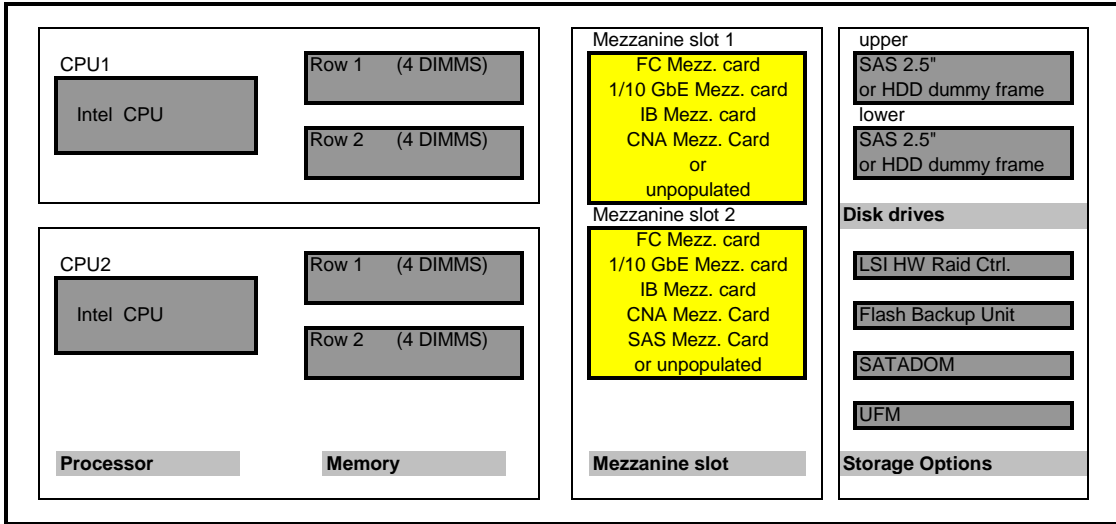
For further information see:

http://ts.fujitsu.com/products/standard_servers/index.html (internet)

https://partners.ts.fujitsu.com/com/order-supply/configurators/primergy_config/Pages/Currentconfigurators.aspx (extranet)

Prices and availability see price list and PC-/ System-Architect
 Subject to change and errors excepted

Configuration diagram Dual Server Blade BX2560 M2



Key:

Included in basic unit Option

The population order for the CPU is: CPU1 first, then CPU2

The population order for the DIMMs: for each CPU, the DIMM row 1 (DIMMS 1A 1B 1C 1D) (DIMMS1E 1F 1G 1H) first, then row 2 (DIMMs 2A 2B 2C 2D) (DIMMS 2E 2F 2G 2H)

D

Section X Dual Socket Server Blade BX2560 M2



Server Blade with:

- Dual INTEL E5-26xxv4 Processor Support
- The base units with INTEL C610 chipset
- onboard controller for SATA
- 16 DIMM sockets, organized in 2 DPC for each CPU (8 DIMMs per CPU)
- 1x Dual channel 10 Gbit Ethernet CNA controller on-board
- 2 bays for optional hot plug 2.5" SATA/ SAS HDD/ SSD or PCIe SSD
- iRMC S4 on-board
- Special connector for Y-cable (4x USB, 1 x serial, 1x VGA).



The BX2560 M2 Server Blade can be installed max. 18x in the BX900 System Unit
The BX2560 M2 Server Blade can be installed max. 8x in the BX400 System Unit

18x

S26361-K1561-V200
 PY BX2560 M2 Dual Server Blade
 up to 2x 2.5" hot plug drives.
 Dual Server Blade Base Unit without CPU and without memory modules!
 For CPU and Memory configuration see below
 Max. 18x per BX900 System Unit.
 Max. 8x per BX400 System Unit.

S26361-F4478-L2
 PY BX900 Y-Cable frontside for KVM connection to
Server Blade
 2x USB, 1x VGA, 1x serial

S26361-F3552-E6
 TPM 1.2 Module
 Trusted Platform Module on motherboard
 PY TPM Module
 Be aware of import restrictions!
 Max. 1x per Server Blade.

S26361-F3552-E10
 TPM 2.0 Module
 Trusted Platform Module on motherboard
 PY TPM Module
 Be aware of import restrictions!
 Max. 1x per Server Blade.

S26361-F3552-L6
 TPM 1.2 Module add-on kit for later integration (loose delivery)
 Trusted Platform Module on Motherboard

S26361-F3552-L10
 TPM 2.0 Module add-on kit for later integration (loose delivery)
 Trusted Platform Module on Motherboard

S26361-F1790-E310
 embedded Lifecycle Manager (eLCM)
 SD-Card (min. Class 10)
 SD-Card connected to iRMC to support e.g. Backup/Restore function, eLCM, etc.
 Max. 1x per Server Blade.

S26361-F3552-L23
 TPM 1.2 Module add-on kit for later integration (loose delivery)
 Trusted Platform Module on Motherboard

| Following USB Components are available | |
|---|-------------------|
| 1) USB DVD SM / Blu-Ray | |
| External Blu-Ray Drive (as soon as available) | S26341-F103-L120 |
| 2) USB Mouse: | S26381-K415-L100 |
| Optical Wheel Mouse Tilt USB/PS2 | |
| 3) USB Memorybird: | |
| MyUSBS A910 8GB, MLC Flash | S26391-F6048-L208 |
| MyUSBS A910 16GB, MLC Flash | S26391-F6048-L216 |

S26361-F2749-E1
 Service for Server Blade installation in the System Unit.
Hereby the BX900 S1 will be delivered completely configured and tested with Server Blades integrated.
 This order number must be in the same order as the System Unit itself.
 min. 1x per System Unit; max. 18x per System Unit; max. 1x per Server Blade

S26361-F2749-E2
 Server Blade individually packed / delivered.
The Server Blade is not built in a BX900 S1, it is separately tested and delivered.
 Contains ServerStart CD
 max. 1x per Server Blade

E

E

Section XI Processor

There are 2 processor sockets available.
 The first socket must always be equipped with the **first CPU** which can be selected via configurator
Two processors with different clock frequencies are not possible



For CPU types E5-2637v4, E5-2643v4, E5-2667v4, E5-2697v4, E5-2697Av4 and E5-2699v4
 a larger heat sink is necessary for first CPU due to thermal conditions.
 This leads to a limitation of CPU1's memory array to 6 DIMM modules.
 This follows the memory array of a single CPU configuration is limited to 6 DIMM modules
 and the memory array of a dual CPU configuration is limited to 14 DIMM modules.

| | |
|--|--------------------------|
| Max. two CPU's can be selected per basic unit | |
| One of following CPU's can be selected once (only as first CPU) for an orderable basic unit | |
| Optional second CPU has to be the same type like the first CPU | |
| Xeon E5-2600v4 (R) Basic | |
| - 1x 64-bit Intel Xeon (15MB Smart Cache) 1866 MHz DDR4 Bus; 6.4 GT/s QPI Bus occupies socket for one CPU | |
| Xeon E5-2603v4 6C/6T 1.70GHz 15MB 6.4GT/s 1866MHz 85W | S26361-F3933-E103 |
| Xeon E5-2609v4 8C/8T 1.70GHz 20MB 6.4GT/s 1866MHz 85W | S26361-F3933-E109 |
| Xeon E5-2600v4 (R) Standard | |
| - 1x 64-bit Intel Xeon (15/20MB Smart Cache); Hyper-Threading (HT); 2133 MHz DDR4 Bus; 8.0 GT/s QPI Bus occupies socket for one CPU | |
| Xeon E5-2620v4 8C/16T 2.10GHz 20MB 8.0GT/s 2133MHz 85W | S26361-F3933-E120 |
| Xeon E5-2630v4 10C/20T 2.20GHz 25MB 8.0GT/s 2133MHz 85W | S26361-F3933-E130 |
| Xeon E5-2640v4 10C/20T 2.40GHz 25MB 8.0GT/s 2133MHz 90W | S26361-F3933-E140 |
| Xeon E5-2600v4 (R) Advanced | |
| - 1x 64-bit Intel Xeon (25/30MB Smart Cache); Hyper-Threading (HT); 2400 MHz DDR4 Bus; 9.6 GT/s QPI Bus occupies socket for one CPU | |
| Xeon E5-2650v4 12C/24T 2.20GHz 30MB 9.6GT/s 2400MHz 105W | S26361-F3933-E150 |
| Xeon E5-2660v4 12C/24T 2.00GHz 30MB 9.6GT/s 2400MHz 105W | S26361-F3933-E160 |
| Xeon E5-2680v4 14C/28T 2.40GHz 35MB 9.6GT/s 2400MHz 120W | S26361-F3933-E180 |
| Xeon E5-2690v4 14C/28T 2.60GHz 35MB 9.6GT/s 2400MHz 135W | S26361-F3933-E190 |
| Xeon E5-2600v4 (R) Frequency Optimized | |
| - 1x 64-bit Intel Xeon (10-20MB Smart Cache); Hyper-Threading (HT); 2400 MHz DDR4 Bus; 8.0 & 9.6 GT/s QPI Bus occupies socket for one CPU | |
| Xeon E5-2623v4 4C/8T 2.60GHz 10MB 8.0GT/s 2133MHz 105W | S26361-F3933-E123 |
| Xeon E5-2637v4 4C/8T 3.50GHz 10MB 9.6GT/s 2400MHz 135W | S26361-F3933-E137 |
| Xeon E5-2643v4 6C/12T 3.40GHz 15MB 9.6GT/s 2400MHz 135W | S26361-F3933-E143 |
| Xeon E5-267v4 8C/16T 3.20GHz 20MB 9.6GT/s 2400MHz 135W | S26361-F3933-E167 |
| Xeon E5-2600v4 (R) High Core Count | |
| - 1x 64-bit Intel Xeon (35-40MB Smart Cache); Hyper-Threading (HT); 2400 MHz DDR4 Bus; 9.6 GT/s QPI Bus occupies socket for one CPU | |
| Xeon E5-2683v4 16C/32T 2.10GHz 40MB 9.6GT/s 2400MHz 120W | S26361-F3933-E183 |
| Xeon E5-2695v4 18C/36T 2.10GHz 45MB 9.6GT/s 2400MHz 120W | S26361-F3933-E195 |
| Xeon E5-2697v4 18C/36T 2.30GHz 45MB 9.6GT/s 2400MHz 145W | S26361-F3933-E197 |
| Xeon E5-2697Av4 16C/32T 2.60GHz 40MB 9.6GT/s 2400MHz 145W | S26361-F3933-E191 |
| Xeon E5-2698v4 20C/40T 2.20GHz 50MB 9.6GT/s 2400MHz 135W | S26361-F3933-E198 |
| Xeon E5-2699v4 22C/44T 2.20GHz 55MB 9.6GT/s 2400MHz 145W | S26361-F3933-E199 |
| Xeon E5-2699Av4 22C/44T 2.40GHz 55MB 9.6GT/s 2400MHz 145W | S26361-F3933-E192 |
| Xeon E5-2600v4 (R) Low Power | |
| - 1x 64-bit Intel Xeon (20/30MB Smart Cache); Hyper-Threading (HT); 2133/2400 MHz DDR4 Bus; 8.0/9.6 GT/s QPI Bus occupies socket for one CPU | |
| Xeon E5-2630Lv4 10C/20T 1.80GHz 25MB 8.0GT/s 2133MHz 55W | S26361-F3933-E131 |
| Xeon E5-2650Lv4 14C/28T 1.70GHz 35MB 9.6GT/s 2400MHz 65W | S26361-F3933-E151 |



Max. DDR4 Bus Speed depends on:
 - max. DDR4 Bus Speed from the CPU and
 - max. DDR4 Memory Speed and
 - max. memory modules on one memory channel
 For CPUs which do not offer 1866 MHz support,
 (Basic, Standard & Low Power class),
 System Architect will not offer memory modules
 supporting this frequency.

E1

E1

S26361-F3849-E100
Cooling Kit 2nd CPU

| | |
|--|--------------------------|
| One of following CPU's has to be selected as second CPU | |
| Optional second CPU has to be the same type like the first CPU | |
| Xeon E5-2600v4 (R) Basic | |
| - 1x 64-bit Intel Xeon (15MB Smart Cache) 1866 MHz DDR4 Bus; 6.4 GT/s QPI Bus occupies socket for one CPU | |
| Xeon E5-2603v4 6C/6T 1.70GHz 15MB 6.4GT/s 1866MHz 85W | S26361-F3933-E103 |
| Xeon E5-2609v4 8C/8T 1.70GHz 20MB 6.4GT/s 1866MHz 85W | S26361-F3933-E109 |
| Xeon E5-2600v4 (R) Standard | |
| - 1x 64-bit Intel Xeon (15/20MB Smart Cache); Hyper-Threading (HT); 2133 MHz DDR4 Bus; 8.0 GT/s QPI Bus occupies socket for one CPU | |
| Xeon E5-2620v4 8C/16T 2.10GHz 20MB 8.0GT/s 2133MHz 85W | S26361-F3933-E120 |
| Xeon E5-2630v4 10C/20T 2.20GHz 25MB 8.0GT/s 2133MHz 85W | S26361-F3933-E130 |
| Xeon E5-2640v4 10C/20T 2.40GHz 25MB 8.0GT/s 2133MHz 90W | S26361-F3933-E140 |
| Xeon E5-2600v4 (R) Advanced | |
| - 1x 64-bit Intel Xeon (25/30MB Smart Cache); Hyper-Threading (HT); 2400 MHz DDR4 Bus; 9.6 GT/s QPI Bus occupies socket for one CPU | |
| Xeon E5-2650v4 12C/24T 2.20GHz 30MB 9.6GT/s 2400MHz 105W | S26361-F3933-E150 |
| Xeon E5-2660v4 12C/24T 2.00GHz 30MB 9.6GT/s 2400MHz 105W | S26361-F3933-E160 |
| Xeon E5-2680v4 14C/28T 2.40GHz 35MB 9.6GT/s 2400MHz 120W | S26361-F3933-E180 |
| Xeon E5-2690v4 14C/28T 2.60GHz 35MB 9.6GT/s 2400MHz 135W | S26361-F3933-E190 |
| Xeon E5-2600v4 (R) Frequency Optimized | |
| - 1x 64-bit Intel Xeon (10-20MB Smart Cache); Hyper-Threading (HT); 2133 & 2400 MHz DDR4 Bus; 8.0 & 9.6 GT/s QPI Bus occupies socket for one CPU | |
| Xeon E5-2623v4 4C/8T 2.60GHz 10MB 8.0GT/s 2133MHz 105W | S26361-F3933-E123 |
| Xeon E5-2637v4 4C/8T 3.50GHz 10MB 9.6GT/s 2400MHz 135W | S26361-F3933-E137 |
| Xeon E5-2643v4 6C/12T 3.40GHz 15MB 9.6GT/s 2400MHz 135W | S26361-F3933-E143 |
| Xeon E5-2667v4 8C/16T 3.20GHz 20MB 9.6GT/s 2400MHz 135W | S26361-F3933-E167 |
| Xeon E5-2600v4 (R) High Core Count | |
| - 1x 64-bit Intel Xeon (35-40MB Smart Cache); Hyper-Threading (HT); 2400 MHz DDR4 Bus; 9.6 GT/s QPI Bus occupies socket for one CPU | |
| Xeon E5-2683v4 16C/32T 2.10GHz 40MB 9.6GT/s 2400MHz 120W | S26361-F3933-E183 |
| Xeon E5-2695v4 18C/36T 2.10GHz 45MB 9.6GT/s 2400MHz 120W | S26361-F3933-E195 |
| Xeon E5-2697v4 18C/36T 2.30GHz 45MB 9.6GT/s 2400MHz 145W | S26361-F3933-E197 |
| Xeon E5-2697Av4 16C/32T 2.60GHz 40MB 9.6GT/s 2400MHz 145W | S26361-F3933-E191 |
| Xeon E5-2698v4 20C/40T 2.20GHz 50MB 9.6GT/s 2400MHz 135W | S26361-F3933-E198 |
| Xeon E5-2699v4 22C/44T 2.20GHz 55MB 9.6GT/s 2400MHz 145W | S26361-F3933-E199 |
| Xeon E5-2699Av4 22C/44T 2.40GHz 55MB 9.6GT/s 2400MHz 145W | S26361-F3933-E192 |
| Xeon E5-2600v4 (R) Low Power | |
| - 1x 64-bit Intel Xeon (20/30MB Smart Cache); Hyper-Threading (HT); 2133/2400 MHz DDR4 Bus; 8.0/9.6 GT/s QPI Bus occupies socket for one CPU | |
| Xeon E5-2630Lv4 10C/20T 1.80GHz 25MB 8.0GT/s 2133MHz 55W | S26361-F3933-E131 |
| Xeon E5-2650Lv4 14C/28T 1.70GHz 35MB 9.6GT/s 2400MHz 65W | S26361-F3933-E151 |



| | |
|--|---|
| Separate orderable CPU upgrade kits | |
| S26361-F3933-L603 | Xeon E5-2603v4 6C/6T 1.70GHz 15MB 6.4GT/s 1866MHz 85W |
| S26361-F3933-L609 | Xeon E5-2609v4 8C/8T 1.70GHz 20MB 6.4GT/s 1866MHz 85W |
| S26361-F3933-L620 | Xeon E5-2620v4 8C/16T 2.10GHz 20MB 8.0GT/s 2133MHz 85W |
| S26361-F3933-L630 | Xeon E5-2630v4 10C/20T 2.20GHz 25MB 8.0GT/s 2133MHz 85W |
| S26361-F3933-L640 | Xeon E5-2640v4 10C/20T 2.40GHz 25MB 8.0GT/s 2133MHz 90W |
| S26361-F3933-L650 | Xeon E5-2650v4 12C/24T 2.20GHz 30MB 9.6GT/s 2400MHz 105W |
| S26361-F3933-L623 | Xeon E5-2623v4 4C/8T 2.60GHz 10MB 8.0GT/s 2133MHz 105W |

E2

E2

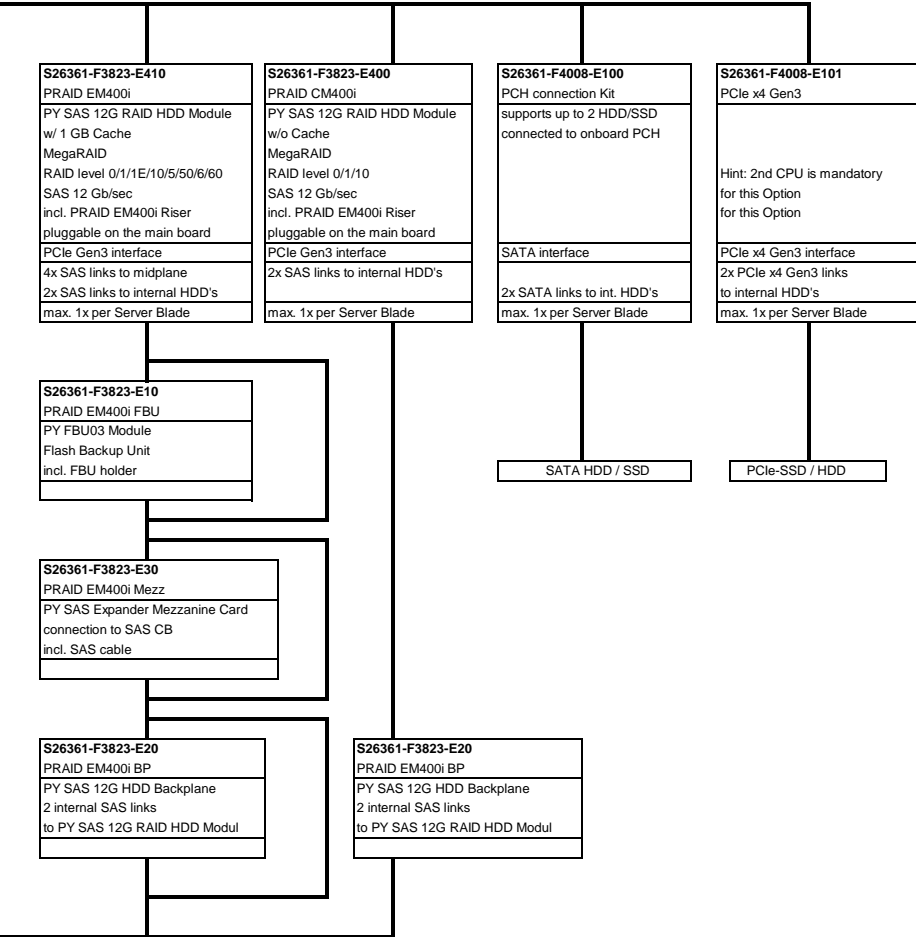
Section XII Storage / RAID Functionality on Server Blade

i One UFM can be installed independent from the disk drives
 Remark: UFM is part of the VMWare Embedded solution (S26361-F2341-E431, -E432, -E433)

i Configuration Hint - Second CPU needed for PCIe x4 Gen3 SSD/HDD Option
 The PCIe HDD/SSD Option is only supported if the second CPU is installed

i Please refer the following configuration matrix for your desired configuration.

| | Controller Device | PCIe | PCH | PCH | PRAID EM400i | PRAID EM400i | PRAID EM400i | PRAID CM400i |
|--------------------|-------------------|-----------|-----------|-----------|--------------|--------------|--------------|--------------|
| | int. HDD/SSD | PCIe | SATA | SATA | SAS/SATA | SAS/SATA | SAS/SATA | SAS/SATA |
| | ext. HDD/SSD | | | | | | | |
| BTO Device | | | | | | | | |
| PRAID EM400i | S26361-F3823-E410 | no | no | mandatory | mandatory | mandatory | no | no |
| PRAID CM400i | S26361-F3823-E400 | no | no | no | no | no | mandatory | mandatory |
| PCH connection Kit | S26361-F4008-E100 | no | mandatory | mandatory | no | no | no | no |
| PCIe x4 Gen3 | S26361-F4008-E101 | mandatory | no | no | no | no | no | no |
| PRAID EM400i FBU | S26361-F3823-E10 | no | no | optional | optional | optional | no | no |
| PRAID EM400i Mezz | S26361-F3823-E30 | no | no | mandatory | mandatory | no | no | no |
| PRAID EM400i BP | S26361-F3823-E20 | no | no | no | no | mandatory | mandatory | mandatory |




G



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.

| 1 - 2x | <p>Solid State Disk, Mainstream Endurance*</p> <table border="1"> <thead> <tr> <th colspan="2">SSD SAS 12Gb/s 2.5" with hot plug/hot replace tray</th> </tr> </thead> <tbody> <tr> <td>400GB, Enterprise Performance</td> <td>S26361-F5710-E400</td> </tr> <tr> <td>800GB, Enterprise Performance</td> <td>S26361-F5710-E800</td> </tr> <tr> <td>1.6TB, Enterprise Performance</td> <td>S26361-F5710-E160</td> </tr> <tr> <td>400GB, Enterprise Performance</td> <td>S26361-F5608-E400</td> </tr> <tr> <td>800GB, Enterprise Performance</td> <td>S26361-F5608-E800</td> </tr> <tr> <td>1.6TB, Enterprise Performance</td> <td>S26361-F5608-E160</td> </tr> <tr> <td colspan="2">max. 2x per system</td> </tr> </tbody> </table> | SSD SAS 12Gb/s 2.5" with hot plug/hot replace tray | | 400GB, Enterprise Performance | S26361-F5710-E400 | 800GB, Enterprise Performance | S26361-F5710-E800 | 1.6TB, Enterprise Performance | S26361-F5710-E160 | 400GB, Enterprise Performance | S26361-F5608-E400 | 800GB, Enterprise Performance | S26361-F5608-E800 | 1.6TB, Enterprise Performance | S26361-F5608-E160 | max. 2x per system | | <p>*) SSD Mainstream Endurance 10DWPD over 5y</p> <p>as soon as available as soon as available as soon as available</p> | | | | | | | | | | | | |
|--|---|--|--|---|-------------------|---|-------------------|---|-------------------|--|-------------------|--|-------------------|--|-------------------|---------------------------------|-------------------|---|-------------------|---------------------------------|-------------------|---------------------------------|-------------------|---------------------------------|-------------------|---|-------------------|--------------------|--|---|
| SSD SAS 12Gb/s 2.5" with hot plug/hot replace tray | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400GB, Enterprise Performance | S26361-F5710-E400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 800GB, Enterprise Performance | S26361-F5710-E800 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6TB, Enterprise Performance | S26361-F5710-E160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400GB, Enterprise Performance | S26361-F5608-E400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 800GB, Enterprise Performance | S26361-F5608-E800 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6TB, Enterprise Performance | S26361-F5608-E160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| max. 2x per system | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 - 2x | <p>Solid State Disk, Mixed Use*</p> <table border="1"> <thead> <tr> <th colspan="2">SSD SAS 12Gb/s 2.5" with hot plug/hot replace tray</th> </tr> </thead> <tbody> <tr> <td>480GB, Mixed use (Read / Write)</td> <td>S26361-F5614-E480</td> </tr> <tr> <td>960GB, Mixed use (Read / Write)</td> <td>S26361-F5614-E960</td> </tr> <tr> <td>1.92TB, Mixed use (Read / Write)</td> <td>S26361-F5614-E192</td> </tr> <tr> <td>3.84TB, Mixed use (Read / Write)</td> <td>S26361-F5614-E384</td> </tr> <tr> <td>400GB, Mixed use (Read / Write)</td> <td>S26361-F5713-E400</td> </tr> <tr> <td>800GB, Mixed use (Read / Write)</td> <td>S26361-F5713-E800</td> </tr> <tr> <td>1.6TB, Mixed use (Read / Write)</td> <td>S26361-F5713-E160</td> </tr> <tr> <td>3.2TB, Mixed use (Read / Write), 2.3DWPD (5y)</td> <td>S26361-F5713-E320</td> </tr> <tr> <td>400GB, Mixed use (Read / Write)</td> <td>S26361-F5666-E400</td> </tr> <tr> <td>800GB, Mixed use (Read / Write)</td> <td>S26361-F5666-E800</td> </tr> <tr> <td>1.6TB, Mixed use (Read / Write)</td> <td>S26361-F5666-E160</td> </tr> <tr> <td>3.2TB, Mixed use (Read / Write), 2.3DWPD (5y)</td> <td>S26361-F5666-E320</td> </tr> <tr> <td colspan="2">max. 2x per system</td> </tr> </tbody> </table> | SSD SAS 12Gb/s 2.5" with hot plug/hot replace tray | | 480GB, Mixed use (Read / Write) | S26361-F5614-E480 | 960GB, Mixed use (Read / Write) | S26361-F5614-E960 | 1.92TB, Mixed use (Read / Write) | S26361-F5614-E192 | 3.84TB, Mixed use (Read / Write) | S26361-F5614-E384 | 400GB, Mixed use (Read / Write) | S26361-F5713-E400 | 800GB, Mixed use (Read / Write) | S26361-F5713-E800 | 1.6TB, Mixed use (Read / Write) | S26361-F5713-E160 | 3.2TB, Mixed use (Read / Write), 2.3DWPD (5y) | S26361-F5713-E320 | 400GB, Mixed use (Read / Write) | S26361-F5666-E400 | 800GB, Mixed use (Read / Write) | S26361-F5666-E800 | 1.6TB, Mixed use (Read / Write) | S26361-F5666-E160 | 3.2TB, Mixed use (Read / Write), 2.3DWPD (5y) | S26361-F5666-E320 | max. 2x per system | | <p>*) SSD Mixed use (Read/Write) 3DWPD over 5y</p> <p>as soon as available as soon as available as soon as available as soon as available</p> |
| SSD SAS 12Gb/s 2.5" with hot plug/hot replace tray | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 480GB, Mixed use (Read / Write) | S26361-F5614-E480 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 960GB, Mixed use (Read / Write) | S26361-F5614-E960 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.92TB, Mixed use (Read / Write) | S26361-F5614-E192 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.84TB, Mixed use (Read / Write) | S26361-F5614-E384 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400GB, Mixed use (Read / Write) | S26361-F5713-E400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 800GB, Mixed use (Read / Write) | S26361-F5713-E800 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6TB, Mixed use (Read / Write) | S26361-F5713-E160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.2TB, Mixed use (Read / Write), 2.3DWPD (5y) | S26361-F5713-E320 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400GB, Mixed use (Read / Write) | S26361-F5666-E400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 800GB, Mixed use (Read / Write) | S26361-F5666-E800 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6TB, Mixed use (Read / Write) | S26361-F5666-E160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.2TB, Mixed use (Read / Write), 2.3DWPD (5y) | S26361-F5666-E320 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| max. 2x per system | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 - 2x | <p>Solid State Disk, Read-Intensive Endurance**</p> <table border="1"> <thead> <tr> <th colspan="2">SSD SAS 12Gb/s 2.5" with hot plug/hot replace tray</th> </tr> </thead> <tbody> <tr> <td>480GB, Read-Intensive</td> <td>S26361-F5715-E480</td> </tr> <tr> <td>960GB, Read-Intensive</td> <td>S26361-F5715-E960</td> </tr> <tr> <td>1.92TB, Read-Intensive</td> <td>S26361-F5715-E192</td> </tr> <tr> <td>3.84TB, Read-Intensive</td> <td>S26361-F5715-E384</td> </tr> <tr> <td>480GB, Read-Intensive</td> <td>S26361-F5617-E480</td> </tr> <tr> <td>960GB, Read-Intensive</td> <td>S26361-F5617-E960</td> </tr> <tr> <td>1.92TB, Read-Intensive</td> <td>S26361-F5617-E192</td> </tr> <tr> <td>3.84TB, Read-Intensive</td> <td>S26361-F5617-E384</td> </tr> <tr> <td>480GB, Read-Intensive</td> <td>S26361-F5670-E480</td> </tr> <tr> <td>960GB, Read-Intensive</td> <td>S26361-F5670-E960</td> </tr> <tr> <td>1.92TB, Read-Intensive</td> <td>S26361-F5670-E192</td> </tr> <tr> <td>3.84TB, Read-Intensive</td> <td>S26361-F5670-E384</td> </tr> <tr> <td colspan="2">max. 2x per system</td> </tr> </tbody> </table> | SSD SAS 12Gb/s 2.5" with hot plug/hot replace tray | | 480GB, Read-Intensive | S26361-F5715-E480 | 960GB, Read-Intensive | S26361-F5715-E960 | 1.92TB, Read-Intensive | S26361-F5715-E192 | 3.84TB, Read-Intensive | S26361-F5715-E384 | 480GB, Read-Intensive | S26361-F5617-E480 | 960GB, Read-Intensive | S26361-F5617-E960 | 1.92TB, Read-Intensive | S26361-F5617-E192 | 3.84TB, Read-Intensive | S26361-F5617-E384 | 480GB, Read-Intensive | S26361-F5670-E480 | 960GB, Read-Intensive | S26361-F5670-E960 | 1.92TB, Read-Intensive | S26361-F5670-E192 | 3.84TB, Read-Intensive | S26361-F5670-E384 | max. 2x per system | | <p>*) SSD Read-Intensive Endurance 1DWPD over 5y</p> <p>as soon as available as soon as available as soon as available as soon as available</p> |
| SSD SAS 12Gb/s 2.5" with hot plug/hot replace tray | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 480GB, Read-Intensive | S26361-F5715-E480 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 960GB, Read-Intensive | S26361-F5715-E960 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.92TB, Read-Intensive | S26361-F5715-E192 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.84TB, Read-Intensive | S26361-F5715-E384 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 480GB, Read-Intensive | S26361-F5617-E480 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 960GB, Read-Intensive | S26361-F5617-E960 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.92TB, Read-Intensive | S26361-F5617-E192 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.84TB, Read-Intensive | S26361-F5617-E384 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 480GB, Read-Intensive | S26361-F5670-E480 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 960GB, Read-Intensive | S26361-F5670-E960 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.92TB, Read-Intensive | S26361-F5670-E192 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.84TB, Read-Intensive | S26361-F5670-E384 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| max. 2x per system | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 - 2x | <p>Solid State Disk, Mixed Use*</p> <table border="1"> <thead> <tr> <th colspan="2">SSD SATA 6Gb/s 2.5" with hot plug/hot replace tray</th> </tr> </thead> <tbody> <tr> <td>240GB, Mixed use (Read / Write)</td> <td>S26361-F5675-E240</td> </tr> <tr> <td>480GB, Mixed use (Read / Write)</td> <td>S26361-F5675-E480</td> </tr> <tr> <td>960GB, Mixed use (Read / Write)</td> <td>S26361-F5588-E960</td> </tr> <tr> <td>1.92TB, Mixed use (Read / Write)</td> <td>S26361-F5588-E192</td> </tr> <tr> <td colspan="2">max. 2x per system</td> </tr> </tbody> </table> | SSD SATA 6Gb/s 2.5" with hot plug/hot replace tray | | 240GB, Mixed use (Read / Write) | S26361-F5675-E240 | 480GB, Mixed use (Read / Write) | S26361-F5675-E480 | 960GB, Mixed use (Read / Write) | S26361-F5588-E960 | 1.92TB, Mixed use (Read / Write) | S26361-F5588-E192 | max. 2x per system | | <p>*) SSD Mixed use (Read/Write) 3DWPD over 5y</p> | | | | | | | | | | | | | | | | |
| SSD SATA 6Gb/s 2.5" with hot plug/hot replace tray | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 240GB, Mixed use (Read / Write) | S26361-F5675-E240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 480GB, Mixed use (Read / Write) | S26361-F5675-E480 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 960GB, Mixed use (Read / Write) | S26361-F5588-E960 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.92TB, Mixed use (Read / Write) | S26361-F5588-E192 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| max. 2x per system | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 - 2x | <p>Solid State Disk, Read-Intensive Endurance**</p> <table border="1"> <thead> <tr> <th colspan="2">SSD SATA 6Gb/s 2.5" S4600 with hot plug/hot replace tray</th> </tr> </thead> <tbody> <tr> <td>240GB, Mixed Use (3.1DWPD/5y)</td> <td>S26361-F5694-E240</td> </tr> <tr> <td>480GB, Mixed Use (3.3DWPD/5y)</td> <td>S26361-F5694-E480</td> </tr> <tr> <td>960GB, Mixed Use (3.0DWPD/5y)</td> <td>S26361-F5694-E960</td> </tr> <tr> <td>1.92TB, Mixed Use (3.0DWPD/5y)</td> <td>S26361-F5694-E192</td> </tr> <tr> <td colspan="2">max. 2x per system</td> </tr> </tbody> </table> | SSD SATA 6Gb/s 2.5" S4600 with hot plug/hot replace tray | | 240GB, Mixed Use (3.1DWPD/5y) | S26361-F5694-E240 | 480GB, Mixed Use (3.3DWPD/5y) | S26361-F5694-E480 | 960GB, Mixed Use (3.0DWPD/5y) | S26361-F5694-E960 | 1.92TB, Mixed Use (3.0DWPD/5y) | S26361-F5694-E192 | max. 2x per system | | | | | | | | | | | | | | | | | | |
| SSD SATA 6Gb/s 2.5" S4600 with hot plug/hot replace tray | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 240GB, Mixed Use (3.1DWPD/5y) | S26361-F5694-E240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 480GB, Mixed Use (3.3DWPD/5y) | S26361-F5694-E480 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 960GB, Mixed Use (3.0DWPD/5y) | S26361-F5694-E960 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.92TB, Mixed Use (3.0DWPD/5y) | S26361-F5694-E192 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SSD SATA 6Gb/s 2.5" with hot plug/hot replace tray (H-P) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 240GB, Enterprise (EP), Read-Intensive (1DWPD/5y) | S26361-F5632-E240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 480GB, Enterprise (EP), Read-Intensive (1DWPD/5y) | S26361-F5632-E480 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 800GB, Enterprise (EP), Read-Intensive (1DWPD/5y) | S26361-F5632-E800 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 960GB, Enterprise (EP), Read-Intensive (1DWPD/5y) | S26361-F5632-E960 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2TB, Enterprise (EP), Read-Intensive (1DWPD/5y) | S26361-F5632-E120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6TB, Enterprise (EP), Read-Intensive (1DWPD/5y) | S26361-F5632-E160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SSD SATA 6Gb/s 2.5" with hot plug/hot replace tray (H-P) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 240GB, Enterprise (EP), Read-Intensive (1.4DWPD/5y) | S26361-F5701-E240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 480GB, Enterprise (EP), Read-Intensive (0.9DWPD/5y) | S26361-F5701-E480 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 960GB, Enterprise (EP), Read-Intensive (0.9DWPD/5y) | S26361-F5701-E960 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.92TB, Enterprise (EP), Read-Intensive (0.9DWPD/5y) | S26361-F5701-E192 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.84TB, Enterprise (EP), Read-Intensive (1.0DWPD/5y) | S26361-F5701-E384 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.68TB, Enterprise (EP), Read-Intensive (0.5DWPD/5y) | S26361-F5701-E768 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| max. 2x per system | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 - 2x | <p>PCIe3.0 Solid State Disk</p> <table border="1"> <thead> <tr> <th colspan="2">SSD PCIe3.0 2.5" with hot plug/hot replace tray</th> </tr> </thead> <tbody> <tr> <td>1.6TB, NVMe, Mixed Use (3.0DWPD/5y)</td> <td>S26361-F5648-E160</td> </tr> </tbody> </table> | SSD PCIe3.0 2.5" with hot plug/hot replace tray | | 1.6TB, NVMe, Mixed Use (3.0DWPD/5y) | S26361-F5648-E160 | | | | | | | | | | | | | | | | | | | | | | | | | |
| SSD PCIe3.0 2.5" with hot plug/hot replace tray | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6TB, NVMe, Mixed Use (3.0DWPD/5y) | S26361-F5648-E160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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|-------------------------------------|-----------------------------------|
| 3.2TB, NVMe, Mixed Use (3.1DWPD/5y) | S26361-F5648-E320 |
| max. 2x per system | |

| 1x | <table border="1"> <tr> <th colspan="2">SSD SATA DOM</th> </tr> <tr> <td>64GB, 0.14 DWPD over 5y</td> <td>S26361-F5619-E64</td> </tr> <tr> <td>128GB, 0.13 DWPD over 5y</td> <td>S26361-F5619-E128</td> </tr> <tr> <td colspan="2">SATADOM is designed for use as a boot drive with the Endurance Spec. above.</td> </tr> <tr> <td colspan="2">Vmware not supported.</td> </tr> <tr> <td colspan="2">max. 1x per system</td> </tr> </table> | SSD SATA DOM | | 64GB, 0.14 DWPD over 5y | S26361-F5619-E64 | 128GB, 0.13 DWPD over 5y | S26361-F5619-E128 | SATADOM is designed for use as a boot drive with the Endurance Spec. above. | | Vmware not supported. | | max. 1x per system | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|-----------------------------------|----------------------------------|-----------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--|--|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|--|--|---------------------------------|-----------------------------------|---------------------------------|-----------------------------------|---------------------------------|-----------------------------------|--|--|---------------------------------|-----------------------------------|---------------------------------|-----------------------------------|--|--|--------------------|--|
| | SSD SATA DOM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 64GB, 0.14 DWPD over 5y | S26361-F5619-E64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 128GB, 0.13 DWPD over 5y | S26361-F5619-E128 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SATADOM is designed for use as a boot drive with the Endurance Spec. above. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | HDD SATA 6Gb/s 2.5" hot plug/hot replace | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1TB 7.200rpm, <9.5ms, 64MB Cache, 512n | S26361-F3816-E100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2TB 7.200rpm, 128MB Cache, 512n | S26361-F3956-E200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1TB 7.200rpm, 128MB Cache, 512e | S26361-F3907-E100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2TB 7.200rpm, 128MB Cache, 512e | S26361-F3907-E200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 512e drives are not supported with VMware 6.0 or earlier | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| max. 2x per system | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 - 2x | <table border="1"> <tr> <th colspan="2">HDD SAS 12Gb/s 2.5" hot plug/hot replace</th> </tr> <tr> <td>300GB, 10krpm, 128MB Cache, 512n</td> <td>S26361-F5550-E130</td> </tr> <tr> <td>600GB, 10krpm, 128MB Cache, 512n</td> <td>S26361-F5550-E160</td> </tr> <tr> <td>900GB, 10krpm, 128MB Cache, 512n</td> <td>S26361-F5550-E190</td> </tr> <tr> <td>1.2TB, 10krpm, 128MB Cache, 512n</td> <td>S26361-F5550-E112</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td>450GB, 10krpm, 128MB Cache, 512e</td> <td>S26361-F5543-E145</td> </tr> <tr> <td>600GB, 10krpm, 128MB Cache, 512e</td> <td>S26361-F5543-E160</td> </tr> <tr> <td>900GB, 10krpm, 128MB Cache, 512e</td> <td>S26361-F5543-E190</td> </tr> <tr> <td>1.2TB, 10krpm, 128MB Cache, 512e</td> <td>S26361-F5543-E112</td> </tr> <tr> <td>1.8TB, 10krpm, 128MB Cache, 512e</td> <td>S26361-F5543-E118</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td>300GB 15krpm, 128MB Cache, 512n</td> <td>S26361-F5531-E530</td> </tr> <tr> <td>450GB 15krpm, 128MB Cache, 512n</td> <td>S26361-F5531-E545</td> </tr> <tr> <td>600GB 15krpm, 128MB Cache, 512n</td> <td>S26361-F5531-E560</td> </tr> <tr> <td colspan="2"> </td> </tr> <tr> <td>1TB, 7.2krpm, 128MB Cache, 512e</td> <td>S26361-F5573-E100</td> </tr> <tr> <td>2TB, 7.2krpm, 128MB Cache, 512e</td> <td>S26361-F5573-E200</td> </tr> <tr> <td colspan="2">512e drives are not supported with VMware 6.0 or earlier</td> </tr> <tr> <td colspan="2">max. 2x per system</td> </tr> </table> | HDD SAS 12Gb/s 2.5" hot plug/hot replace | | 300GB, 10krpm, 128MB Cache, 512n | S26361-F5550-E130 | 600GB, 10krpm, 128MB Cache, 512n | S26361-F5550-E160 | 900GB, 10krpm, 128MB Cache, 512n | S26361-F5550-E190 | 1.2TB, 10krpm, 128MB Cache, 512n | S26361-F5550-E112 | | | 450GB, 10krpm, 128MB Cache, 512e | S26361-F5543-E145 | 600GB, 10krpm, 128MB Cache, 512e | S26361-F5543-E160 | 900GB, 10krpm, 128MB Cache, 512e | S26361-F5543-E190 | 1.2TB, 10krpm, 128MB Cache, 512e | S26361-F5543-E112 | 1.8TB, 10krpm, 128MB Cache, 512e | S26361-F5543-E118 | | | 300GB 15krpm, 128MB Cache, 512n | S26361-F5531-E530 | 450GB 15krpm, 128MB Cache, 512n | S26361-F5531-E545 | 600GB 15krpm, 128MB Cache, 512n | S26361-F5531-E560 | | | 1TB, 7.2krpm, 128MB Cache, 512e | S26361-F5573-E100 | 2TB, 7.2krpm, 128MB Cache, 512e | S26361-F5573-E200 | 512e drives are not supported with VMware 6.0 or earlier | | max. 2x per system | |
| | HDD SAS 12Gb/s 2.5" hot plug/hot replace | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 300GB, 10krpm, 128MB Cache, 512n | S26361-F5550-E130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 600GB, 10krpm, 128MB Cache, 512n | S26361-F5550-E160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 900GB, 10krpm, 128MB Cache, 512n | S26361-F5550-E190 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.2TB, 10krpm, 128MB Cache, 512n | S26361-F5550-E112 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 450GB, 10krpm, 128MB Cache, 512e | S26361-F5543-E145 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 600GB, 10krpm, 128MB Cache, 512e | S26361-F5543-E160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 900GB, 10krpm, 128MB Cache, 512e | S26361-F5543-E190 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.2TB, 10krpm, 128MB Cache, 512e | S26361-F5543-E112 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.8TB, 10krpm, 128MB Cache, 512e | S26361-F5543-E118 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 300GB 15krpm, 128MB Cache, 512n | S26361-F5531-E530 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 450GB 15krpm, 128MB Cache, 512n | S26361-F5531-E545 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 600GB 15krpm, 128MB Cache, 512n | S26361-F5531-E560 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1TB, 7.2krpm, 128MB Cache, 512e | S26361-F5573-E100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2TB, 7.2krpm, 128MB Cache, 512e | S26361-F5573-E200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 512e drives are not supported with VMware 6.0 or earlier | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| max. 2x per system | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

F

Section III Memory



- There are 8 memory slots per CPU for max.
512GB LRDIMM (8x 64GB 4R)
256GB RDIMM (8x 32GB 2R)
=> max. 1024GB for two CPU's (512GB per CPU), using LRDIMM
=> max. 2.048GB for two CPUs, using upcoming 8Rx4 LRDIMM technology with 128GB per module
- The memory area is divided into 4 channels per CPU with 2 slots per channel
- Slot 1 of each channel belongs to memory bank 1, slot 2 belongs to memory bank 2

Registered and Load Reduced DIMMs can be selected
No mix of registered and load reduced modules is allowed.
Memory will be operated at 1.2V.
Depending on the CPU following memory speeds will be reached:
In a single DIMM per channel configuration 21400MHz will be supported
This is also valid for dual LRDIMM configurations (2400MHz)
In a dual RDIMM configuration 2400MHz will be supported
SDDC (Chipkill) is supported for registered and load reduced x4 organized memory modules

1.) In the "Independent Channel Mode" is following configuration possible
Channels can be populated in any order in Independent Channel Mode. All four channels may be populated in any order and have no matching requirements. All channels must run at the same interface frequency but individual channels may run at different DIMM timings (RAS latency, CAS latency, and so forth)
No mix of registered and load reduced modules is allowed.

2.) "Rank Sparing Mode" configuration
Within a memory channel, one rank is a spare of the other ranks.
The Spare Rank is held in reserve and is not available as system memory
For the effective memory capacity, please refer to the spreadsheet below.
The BIOS is set to the rank sparing setting.
Minimum configuration is: 2x 1R, 2x 2R or 1x4R DDR4 module per channel

3.) "Performance Mode" configuration
In this configuration, the memory module population ex factory is spread across all channels.
The BIOS is set to the max. performance for memory.
Minimum configuration is four identical modules per CPU

4.) In the "Mirrored Channel Mode" is following configuration possible
Each memory bank can optionally be equipped with four registered or load reduced DDR4 modules
In each memory bank channel A and B / C and D of CPU 1 or channel E and F / G and H of CPU 2 have to be equipped with identical modules for mirrored channel mode.
In channel B / D is always the mirrored memory of channel A / C of CPU 1
In channel F / H is always the mirrored memory of channel E / G of CPU 2
Minimum configuration is: 4x identical modules

F1

F1

1x per CPU

| |
|--|
| S26361-F3694-E10 Independent Mode |
| Independent Channel Mode allows all channels to be populated in any order. No specific Memory RAS features are defined Requires min 1 memory Module per CPU |
| S26361-F3694-E1 Rank Sparing Mode Installation |
| BIOS Setup factory preinstalled to this mode. One Rank is spare of other ranks on the same channel. Spare Rank is not shown in System Memory. For effective capacity within a channel, please have a look below. Requires min 2x 1R/2R or 1x 4R modules per CPU |
| S26361-F3694-E2 Performance Mode Installation |
| BIOS Setup factory preinstalled for maximum Performance, Four identical memory modules will be equipped in one memory bank to achieve highest memory performance. All four modules are active and full capacity can be used. Multiple of 4 identical modules to be configured per CPU |
| S26361-F3694-E3 Mirrored Channel Mode Installation |
| BIOS Setup factory preinstalled to this mode. Four identical memory modules are always equipped in one memory bank to use the Mirrored channel Mode. Only two modules contain active data, the remain two modules contain mirrored data Multiple of 4 identical modules to be configured per CPU |

| | | | | | | |
|----------|---|--------------|---------|---------|---------------|----------|
| i | Effective Memory capacity / Rank Sparing Mode, 1 Channel populated | | | | | |
| | | RDIMM | | | LRDIMM | |
| | | 8GB 1R | 16GB 2R | 32GB 2R | 64GB 4R | 128GB 8R |
| | 1DPC | | | 48GB | 112GB | |
| | 2DPC | 8GB | 24GB | 48GB | 112GB | 240GB |

i **Minimum one memory module or order code per CPU = first memory**

i Note 1)
 Max. DDR4 memory speed depends on the memory configuration (No of mem modules per channel) as well as on the CPU type. The memory channel with the lowest speed defines the speed of all CPU channels in the system, also for the channels of the second CPU if configured.
 For real memory speed (depending on memory type / population), please check the spreadsheet "Memory speed" below

i Note 2)
 Mix of memory modules is only possible within the same group

12x per CPU, max. 3 modules per channel

| | | |
|--|--|-------------------|
| Registered Memory (RDIMM) with SDDC (chipkill) support | | |
| - one DDR4 registered ECC memory Module, 1.2V | | |
| Choose up to 12 order codes per CPU | | |
| 8GB (1x8GB) 1Rx4 DDR4-2400 R ECC | | S26361-F3934-E611 |
| 16GB (1x16GB) 2Rx4 DDR4-2400 R ECC | | S26361-F3934-E612 |
| 32GB (1x32GB) 2Rx4 DDR4-2400 R ECC | | S26361-F3934-E615 |
| Registered Memory (RDIMM 3DS) | | |
| 64GB (1x64GB) 4Rx4 DDR4-2400 3DS ECC | | S26361-F3934-E617 |
| Registered Memory (RDIMM) without SDDC (chipkill) support | | |
| - one DDR4 registered ECC memory Module, 1.2V | | |
| Choose up to 12 order codes per CPU | | |
| 8GB (1x8GB) 2Rx8 DDR4-2400 R ECC | | S26361-F3934-E614 |
| 16GB (1x16GB) 2Rx8 DDR4-2400 R ECC | | S26361-F3934-E613 |
| Load Reduced Memory (LRDIMM) with SDDC (chipkill) support | | |
| - one DDR4 load reduced ECC memory Module, 1.2V | | |
| Choose up to 12 order codes per CPU | | |
| 64GB (1x64GB) 4Rx4 DDR4-2400 LR ECC | | S26361-F3935-E616 |
| 128GB (1x128GB) 8Rx4 DDR4-2400 LR ECC | | S26361-F3935-E617 |

available from Q4/2017

on special release only

late availability expected

G

Memory Configuration PRIMERGY BX2560 M2

Each CPU offers 8 Slots for DDR4 Memory Modules organised in **2 Banks and 4 Channels**.

If you need more than 8 Slots you have to configure the 2nd CPU.

Depending on the amount of memory configured you can decide between 4 basic modes of operation (see explanation below).

There are 2 different kinds of DDR4 Memory Modules available: RDIMM and LRDIMM

Mix of RDIMM and LRDIMM is not allowed.

| Mode | Configuration | RDIMM | RDIMM | Application |
|--------------------------|----------------------------|-----------|-----------|---|
| | | | LRDIMM | |
| | | x8 | x4 | |
| SDDC (chipkill) support | any | no | yes | detect multi-bit errors |
| Independant Channel Mode | 1, 2 or 3 Modules per Bank | yes | yes | offers max. flexibility, upgradeability, capacity |
| Mirrored Channel Mode *) | 4 identical Modules / Bank | no | yes | offers maximum security |
| Performance Mode | 4 identical Modules / Bank | yes | yes | offers maximum performance and capacity |
| Rank Sparing Mode *) | min. 2 Ranks / Channel | no | yes | balances security and capacity |

*) For the delivery ex works the system will be prepared with dedicated BIOS setting.

| Capacity | Configuration | RDIMM | LRDIMM | Notes |
|------------------------|------------------------|--------|---------|-----------------------------|
| Min. Memory per CPU | 1 Module / CPU | 1x8GB | 1x64GB | with one CPU |
| Max. Memory per CPU | 8/12 Modules / CPU | 8x32GB | 8x128GB | with one CPU |
| Max. Memory per System | 16/24 Modules / System | 512GB | 2.048GB | if second CPU is configured |

Memory-Speed:

Max. DDR4 memory speed depends on the memory configuration on one memory channel and the speed of the CPU

The memory channel with the lowest speed defines the speed of all CPU channels in the system

| Mem. Speed provided by CPU | Real maximum memory-bus speed depending on CPU type, memory configuration (DPC) and voltage setting (BIOS) | | | |
|----------------------------------|--|------|----------------|------|
| | RDIMM 2400MHz | | LRDIMM 2400MHz | |
| | 1.2V | | 1.2V | |
| Voltage setting (BIOS) | 1.2V | | 1.2V | |
| | 1 | 2 | 1 | 2 |
| | DPC | DPC | DPC | DPC |
| CPU with 2400MHz DDR4 Bus | 2400 | 2400 | 2400 | 2400 |
| CPU with 2133MHz DDR4 Bus | 2133 | 2133 | 2133 | 2133 |
| CPU with 1866MHz DDR4 Bus | 1866 | 1866 | 1866 | 1866 |

1R - Single Rank 4R - Quad Rank
 2R - Dual Rank 8R - Eight Rank

1DPC = 1 DIMM per Channel

2DPC = 2 DIMM per Channel

Configuration hints:

- The memory sockets on the systemboard offer a color coding:

Bank I black sockets

Bank II blue sockets

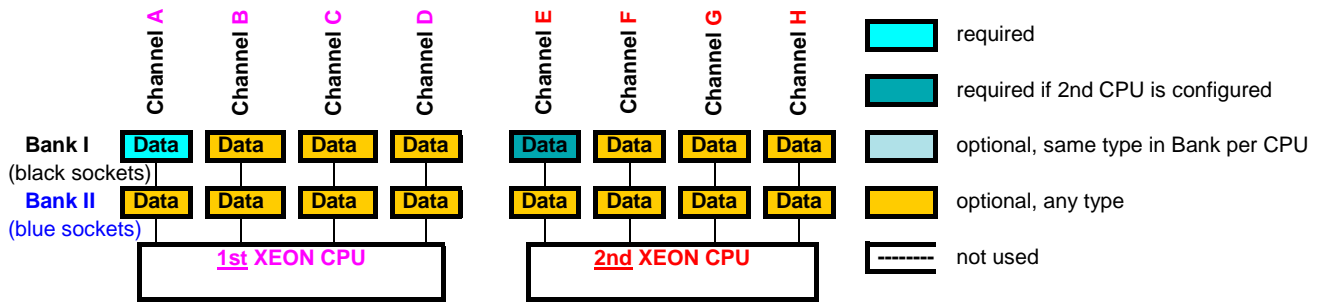
- A so called Bank consists of 1 memory module on every Channel available on one CPU (examples see below)

Bank I on CPU 1/2 up to 4 memory modules connected to Channel A - H on the 1st/2nd CPU

Bank II on CPU 1/2 up to 4 memory modules connected to Channel A - E on the 1st/2nd CPU

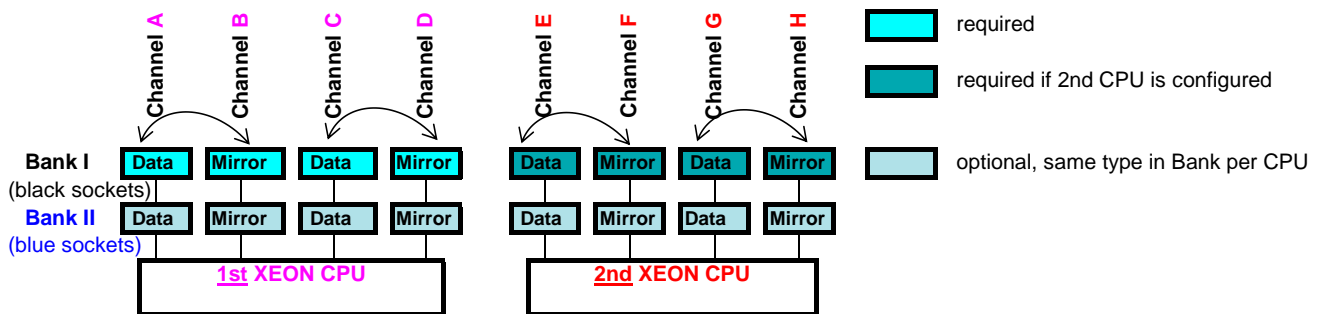
- See below and next page for a detailed descriptions of the memory configuration supported.

1. Independent Channel Mode



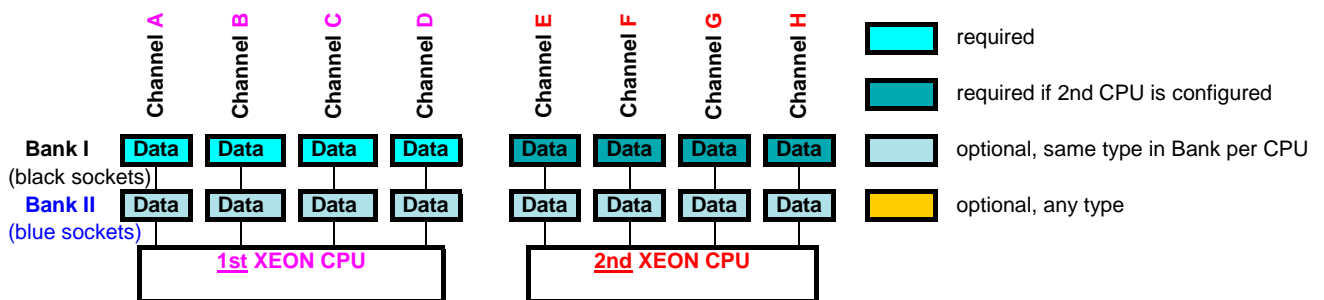
Independent Channel Mode allows all channels to be populated in any order
 Can run with differently rated DIMMs and use the settings of the slowest DIMM installed in the system

2. Mirrored Channel Mode



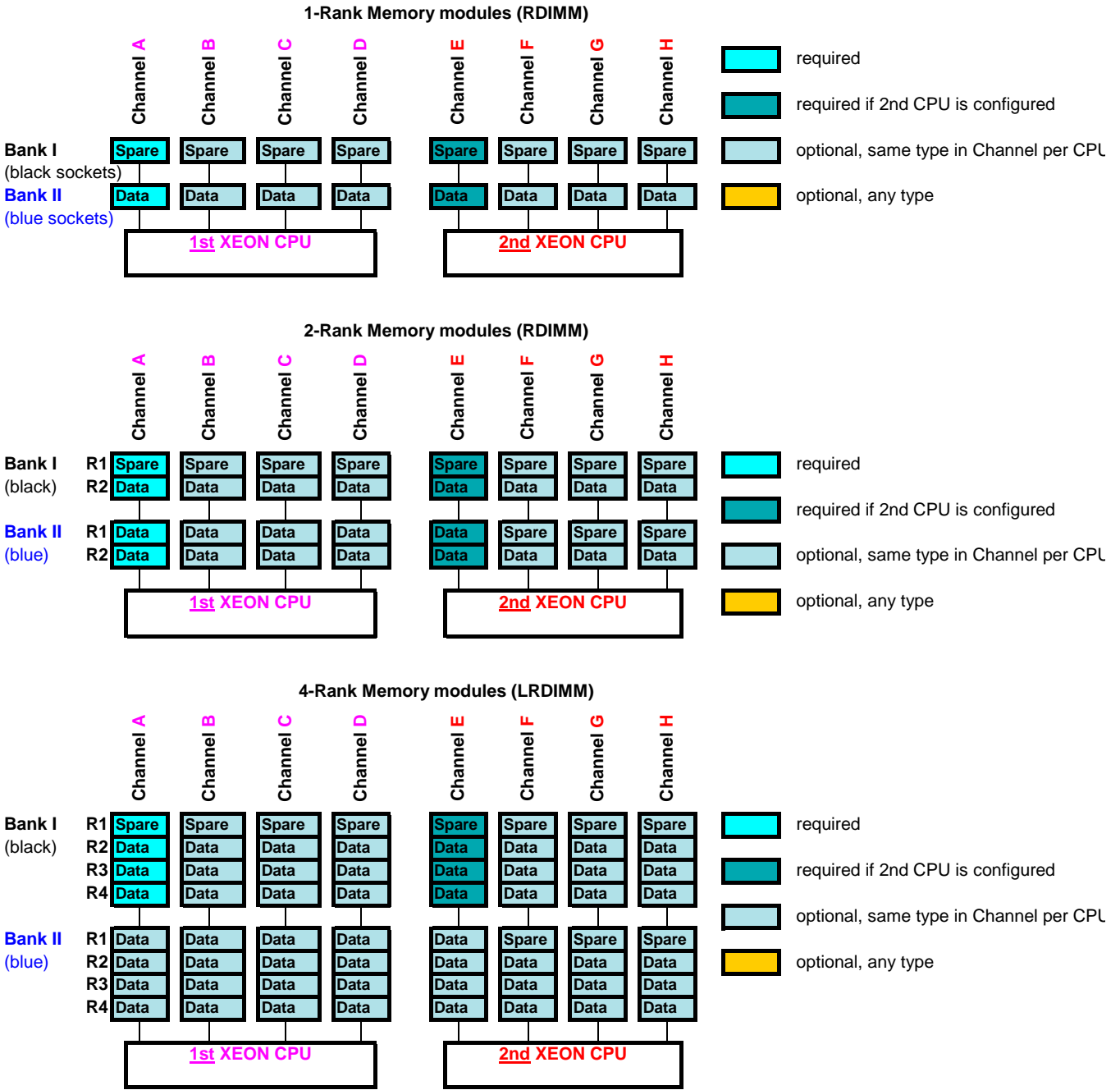
Mirrored Channel Mode requires identical modules on channel A,B, C, D (1st CPU) or channel E, F, G and H (2nd CPU)
 50% of the capacity is used for the mirror => the available memory for applications is only half of the installed memory
 If this mode is used, a multiple of 4 identical modules has to be ordered.

3. Performance Channel Mode



Performance Channel Mode requires identical modules on all channels of each Bank per CPU.
 If this mode is used, a multiple of 4 identical modules has to be ordered.

4. Rank Sparing Mode



Rank Sparing Mode requires identical modules (same capacity and technology) within the same channel. The available memory for applications will vary depending on configuration. Please refer to the spreadsheet above "Effective Memory capacity with active Rank Sparing Mode". Population rule for Rank sparing mode is to achieve max. available memory, e.g. 8 DIMMs will be spread across two channels, each with 4DPC

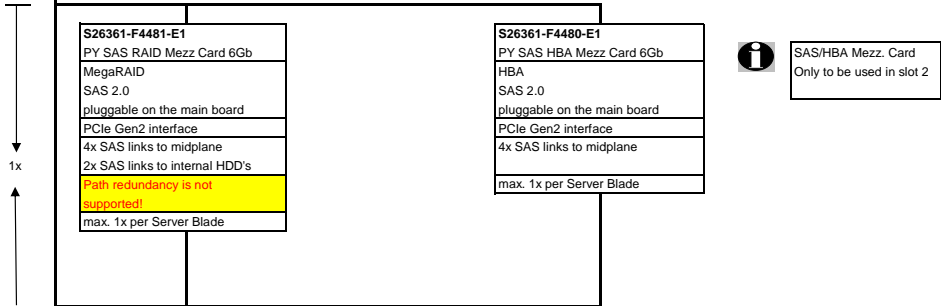
G

Section XIV iRMC S4, Graphics

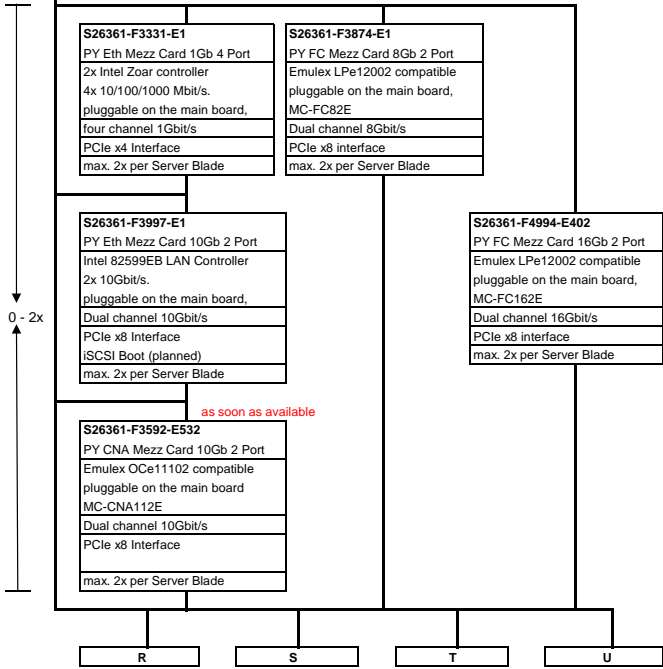
- i** Graphic Controller is part of the onboard Management Controller iRMC S4. Other graphics are not possible.
- i** The iRMC S4 advanced pack is included in the system delivery. A corresponding license order is not necessary.

Section XV Mezzanine cards for Dual Socket Server Blade

i The Dual Server Blade supports the following optional mezzanine cards. A Fibre Channel Switch / Pass-Thru blade, an Ethernet LAN Switch / Pass-Thru blade, respectively an InfiniBand switch is required in the system unit for this functionality.



- i** Requires an Ethernet LAN Switch, IBP or Pass-Thru Blade for each channel.
- i** Requires a Fibre Channel Switch for each channel.



- i** R: see separate BX900 System Unit configurator, sheet "1 GB Ethernet"
 - S: see separate BX900 System Unit configurator, sheet "10 GB Ethernet"
 - T: see separate BX900 System Unit configurator, sheet "Fibre Channel"
 - V: see separate BX900 System Unit configurator, sheet "CB SAS"
- https://partners.is.fujitsu.com/conv/order-supply/configurators/primergy_config/current/Pages/default.aspx

