

DL380 G10 SFF Ausbau Overview Front*

1. Disk Upgrade → Basis DL380 G10 SFF mit P408i-a



2. Upgrade to 16 SFF

Option a

- 1x 8 SFF Cage – 826691-B21
- 1x SAS Expander Card – 870549-B21

Option b

- 1x 8 SFF Cage – 826691-B21
- 1x P816-a – 804338-B21



3.1 Upgrade von 16 SFF to 24 SFF

Option a

- 1x 8 SFF Cage – 826691-B21
- 1x High Performance Fan Kit – 867810-B21

Option b

- 1x 8 SFF Cage – 826691-B21
- 1x High Performance Fan Kit – 867810-B21
- 1x SAS Expander Card – 870549-B21



3.2 Upgrade von 8 SFF to 24 SFF

Option a

- 2x 8 SFF Cage – 826691-B21
- 1x SAS Expander Card – 870549-B21
- 1x High Performance Fan Kit – 867810-B21

Option b

- 2x 8 SFF Cage – 826691-B21
- 1x P816-a – 804338-B21
- 1x SAS Expander Card – 870549-B21
- 1x High Performance Fan Kit – 867810-B21



4. Universal Media Bay inkl. 2x SFF

Option a

- 1x DVD ROM – 726536-B21 or RW – 726537-B21
- 1x Universal Media Bay Kit – 826708-B21
- 1x DL38x Premium 2SFF Kit – 826687-B21
- 1x SAS Expander Card – 870549-B21

Option b

- 1x DVD ROM – 726536-B21 or RW – 726537-B21
- 1x Universal Media Bay Kit – 826708-B21
- 1x DL38x Premium 2SFF Kit – 826687-B21
- 1x P816-a – 804338-B21



DL380 Overview

DL380 G10 LFF Ausbau Overview Front

1. **Disk Upgrade** → Basis DL380 G10 LFF mit P408i-a



2. **Disk Upgrade** to 8 LFF & 2 SFF

Option a

- 1x 2SFF SAS/SATA Front to 8LFF – 867805-B21
- 1x SAS Expander Card – 870549-B21

Option b

- 1x 2SFF SAS/SATA Front to 8LFF – 867805-B21
- 1x P816-a – 804338-B21



3. **Disk Upgrade** to 12LFF Front

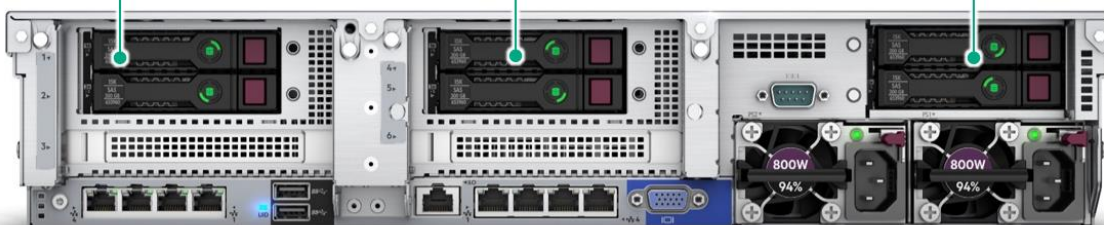
→ nicht möglich, nur als CTO direkt möglich.

DL380 G10 SFF Ausbau Overview Rear*

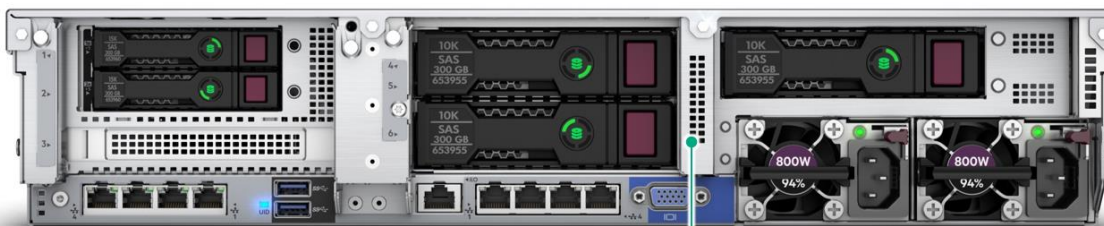
Box 4 – 1x 826688-B21
HPE DL38X Gen10 2 SFF
HDD Riser Kit

Box 5 – 1x 826688-B21
HPE DL38X Gen10 2 SFF
HDD Riser Kit

Box 6 – 1x 826687-B21 HPE
DL38X Gen10 Premium 2SFF
HDD Kit



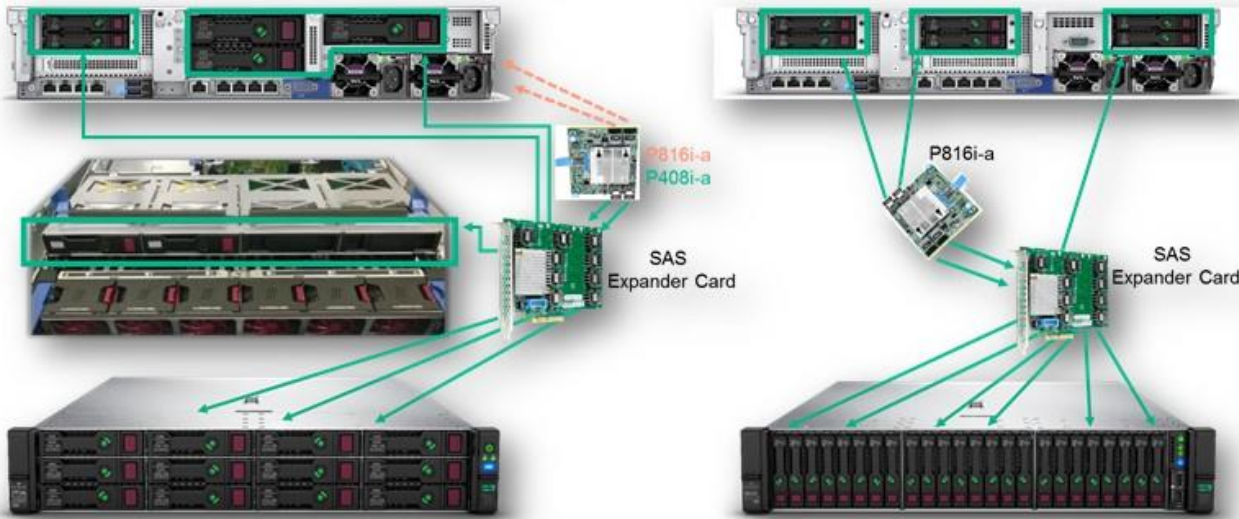
- Rear Drives benötigen zwingend das Performance Fan Kit – 867810-B21
- Bei LFF & SFF supported
- Angaben zu benötigten Controller sind auf der folge Seite zu finden.



826685-B21 HPE DL380 Gen10 3LFF Rear SAS SATA Kit

- LFF Rear Drives benötigen zwingend das Performance Fan Kit – 867810-B21
- Nur bei LFF Modellen supported!
- Angaben zu benötigten Controller sind auf der folge Seite zu finden.

HPE ProLiant Server – Beispiel “Die 250 und 500TB Variante”



Es gilt stets zu beachten, dass genügend Ports frei sind um gewünschte Disk Konstellationen zu bilden, dabei kann obenstehende Darstellung & die Tabelle unten helfen.

Produktbild	Controller	Anzahl x4 Ports
	SAS Expander	9x (2 werden jeweils für Anschluss an Controller benötigt)
	P408i-a	2x
	P816i-a	4x

DL380 G10 Prozessor Overview

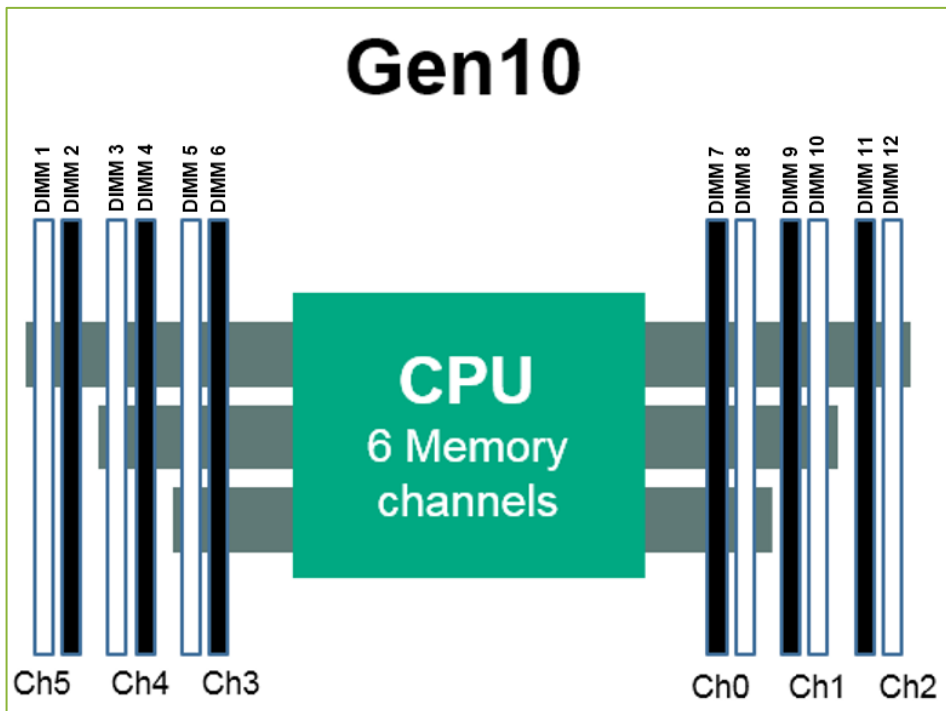
"M" = unterstützen bis zu 1.5TB pro Prozessor

			6146 - 12C, 3.2G, 165W	
			6144 - 8C, 3.5G, 145xW	
			6154 - 18C, 3.0G, 200W	
			6152 - 22C, 2.1G, 140W	
			6150 - 18C, 2.7G, 165W	
			6148 - 20C, 2.4G, 150W	8180M - 28C, 2.5G, 205W
			6142M - 16C, 2.6G, 150w	8180 - 28C, 2.5G, 205W
			6142 - 16C, 2.6G, 150w	8176M - 28C, 2.1G, 165W
			6140M - 18C, 2.3G, 140w	8176 - 28C, 2.1G, 165W
			6140 - 18C, 2.3G, 140w	8170M - 26C, 2.1G, 165W
			6138 - 20C, 2.0G, 125W	8170 - 26C, 2.1G, 165W
			6136 - 12C, 3.0G, 150W	8168 - 24C, 2.7G, 205W
			6134 - 8C, 3.2G, 130W	8164 - 26C, 2.0G, 150W
			6134M - 8C, 3.2G, 130W	8160M - 24C, 2.1G, 150W
			6132 - 14C, 2.6G, 140W	8160 - 24C, 2.1G, 150W
			6130 - 16C, 2.1G, 125W	8158 - 12C, 3.0G, 150W
			6128 - 6C, 3.4G, 115W	8156 - 4C, 3.6G, 105W
			6126 - 12C, 2.6G, 125W	8153 - 16C, 2.0G, 125W
	4116 - 12C, 2.1G, 85W			
	4114 - 10C, 2.2G, 85W	5122 - 4C, 3.6G, 105W		
	4112 - 4C, 2.6G, 85W	5120 - 14C, 2.2G, 105W		
3106 - 8C, 1.7G, 85W	4110 - 8C, 2.1G, 85W	5118 - 12C, 2.3G, 105W		
3104 - 6C, 1.7G, 85W	4108 - 8C, 1.8G, 85W	5115 - 10C, 2.4G, 85W		
31xx (Bronze)	41xx (Silver)	51xx (Gold 1)	61xx (Gold 2)	81xx (Platinum)

- Nur mit den "M" Prozessoren sind 1.5TB RAM pro Prozessor möglich.

31xx (Bronze)	41xx (Silver)	51xx (Gold)	61xx (Gold)	81xx (Platinum)
• 2S-2UPI	• 2S-2UPI	• 2S-2UPI, 4S-2UPI capability	• 2S-2UPI, 2S-3UPI, 4S-2UPI, 4S-3UPI capability	• 2S-2UPI, 2S-3UPI, 4S-2UPI, 4S-3UPI, 8S-3UPI capability
• 6-ch DDR4 @ 2133	• 6-ch DDR4 @ 2400	• 6-ch DDR4 @ 2400	• 6-ch DDR4 @ 2666	• 6-ch DDR4 @ 2666
• 2 UPI links @ 9.6GT/s	• 2 UPI links @ 9.6GT/s	• 2 UPI links @ 10.4GT/s	• 3 UPI links @ 10.4GT/s	• 3 UPI links @ 10.4GT/s
	• Intel® Turbo Boost Technology	• Intel® Turbo Boost Technology	• Intel® Turbo Boost Technology	• Intel® Turbo Boost Technology
	• Intel® HT Technology	• Intel® HT Technology	• Intel® HT Technology	• Intel® HT Technology
• Intel® AVX-512 (1 512-bit FMA)	• Intel® AVX-512 (1 512-bit FMA)	• Intel® AVX-512 (1 512-bit FMA)	• Intel® AVX-512 (2 512-bit FMA)	• Intel® AVX-512 (2 512-bit FMA)
• 48 lanes PCIe® Gen3	• 48 lanes PCIe® Gen3	• 48 lanes PCIe® Gen3	• 48 lanes PCIe® Gen3	• 48 lanes PCIe® Gen3
• Standard RAS	• Standard RAS	• Advanced RAS	• Node Controller Support	• Node Controller Support
			• Advanced RAS	• Advanced RAS

DL380 G10 Memory Overview



HPE ProLiant Gen 10 12 Slots pro CPU DIMM Population Order												
1 DIMM												8
2 DIMMs												8 10
3 DIMMs												8 10 12
4 DIMMs			3		5							8 10
5 DIMMs *			3		5							8 10 12
6 DIMMs	1		3		5							8 10 12
7 DIMMs *	1		3		5		7					8 10 12
8 DIMMs			3	4	5	6	7					8 9 10
9 DIMMs *	1		3		5		7					8 9 10 11 12
10 DIMMs *	1		3	4	5	6	7					8 9 10 12
11 DIMMs *	1		3	4	5	6	7					8 9 10 11 12
12 DIMMs	1	2	3	4	5	6	7	8	9	10	11	12

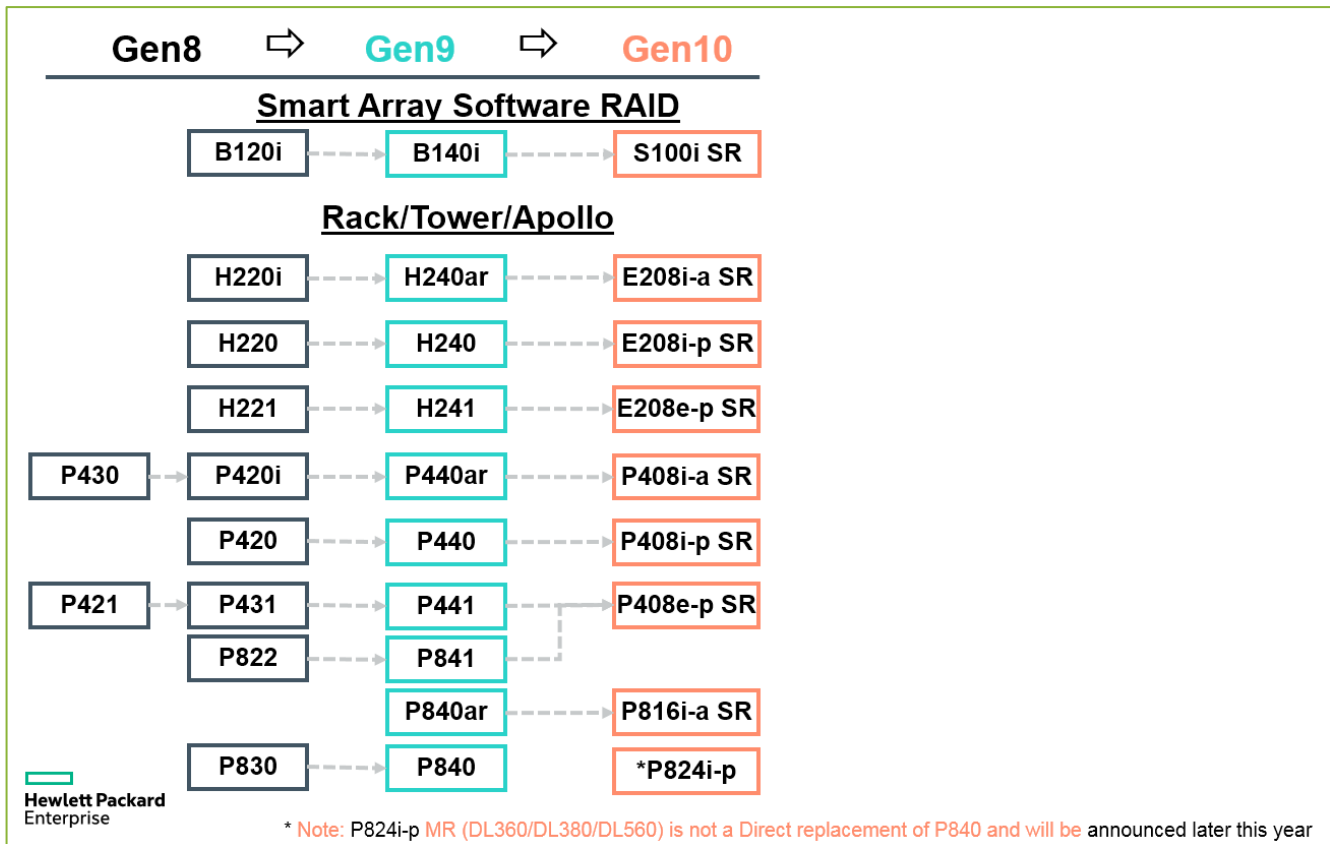
*** = unbalanced . Not recommended!**

- Wenn zwei Prozessoren verbaut sind, sollte die RAM Bestückung auf beide Prozessoren identisch sein.
- Das Mischen von DIMM Typen (UDIMM, RDIMM, and LRDIMM) ist nicht supported

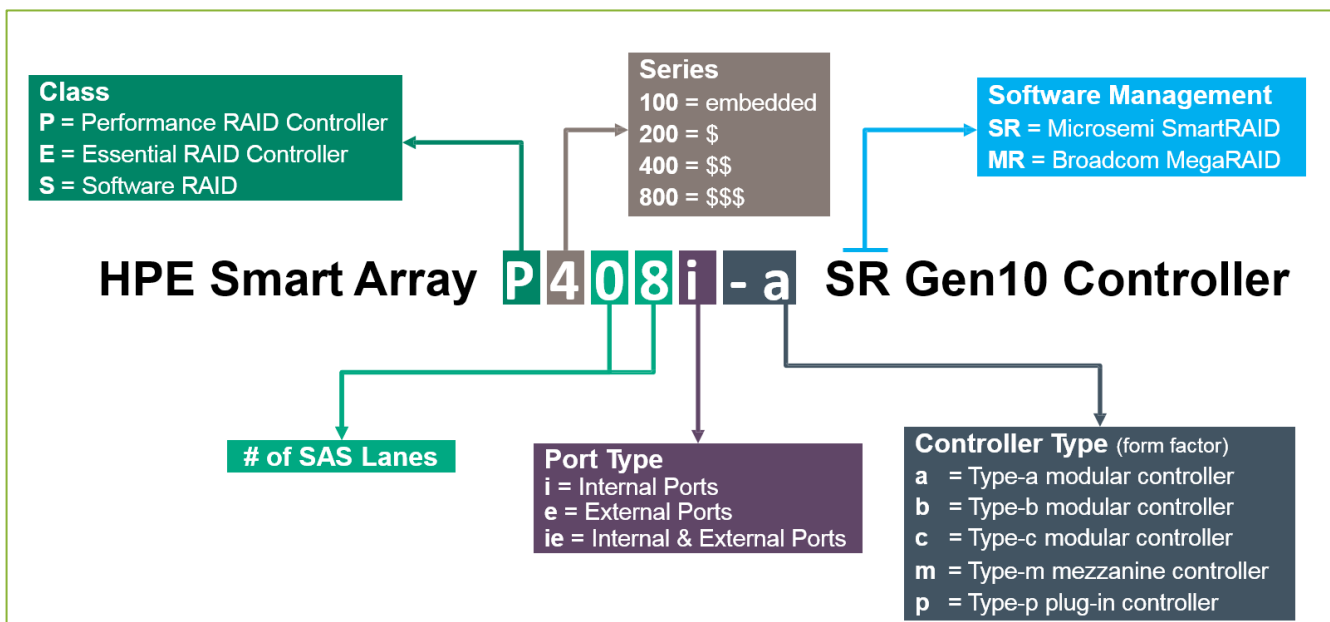
HPE SKU	Bezeichnung
815097-B21	HPE Memory 8GB 1 Rank x8 PC4-2666V-RDIMM Smart Kit
876181-B21	HPE Memory 8GB 2 Rank x8 PC4-2666V-RDIMM Smart Kit
815098-B21	HPE Memory 16GB 1 Rank x4 PC4-2666V-RDIMM Smart Kit
835955-B21	HPE Memory 16GB 2 Rank x8 PC4-2666V-RDIMM Smart Kit
815100-B21	HPE Memory 32GB 2 Rank x4 PC4-2666V-RDIMM Smart Kit
815101-B21	HPE Memory 64GB 4 Rank x4 PC4-2666V-LRDIMM Smart Kit
815102-B21	HPE Memory 128GB 8 Rank x4 PC4-2666-LRDIMM Smart Kit

Smart Array Overview

Transition Gen8 / Gen9 / Gen10



Erklärung Bezeichnung

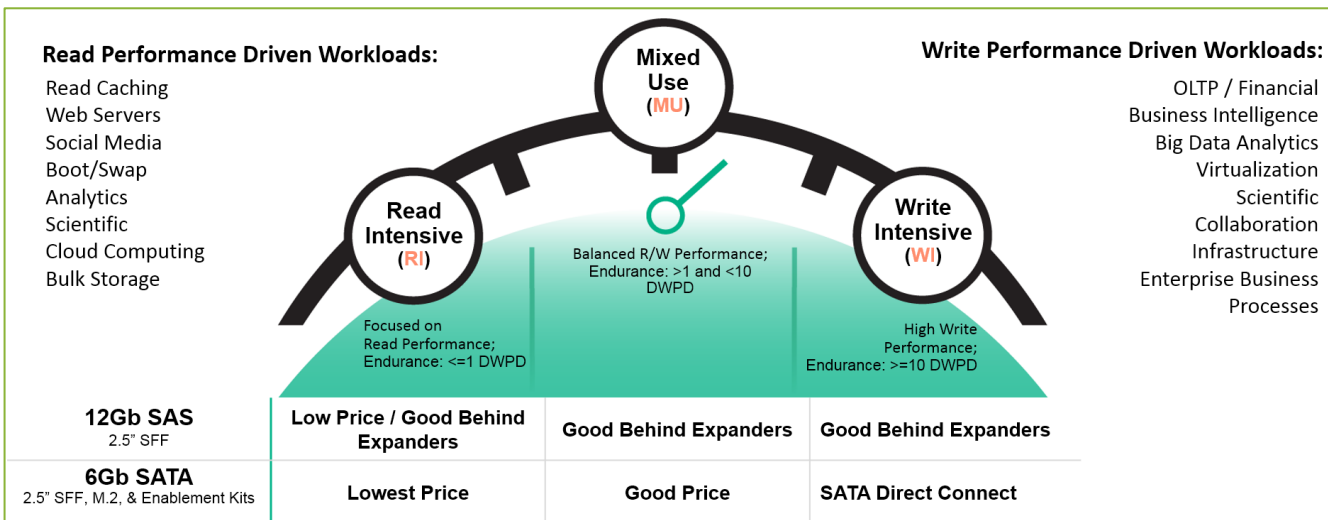


SSD Overview

Erklärung kürzel

HPE 3.84TB SATA RI SFF SC DS SSD							
Brand	Storage Capacity	Interface Type	Workload	Form Factor Type	Carriers	Special Features	Drive Type
HPE	120-960GB 1.6-12.8TB	SATA/SAS	WI = Write Intensive RI = Read Intensive MU = Mixed Use	SFF LFF	SC Smart Carrier SCN Smart Carrier NVMe SCM Smart Carrier M.2 SCC Smart Carrier Converter ST Standard STC Standard Converter LP Low Profile LPC Low Profile Converter QR Quick Release RW Raw Drive	DS Digitally Signed Firmware <i>In priority order where 1st is closest to drive type</i>	SSD

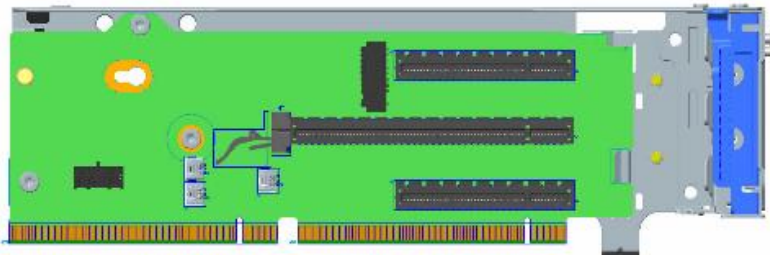
SSD Einsatzbereiche



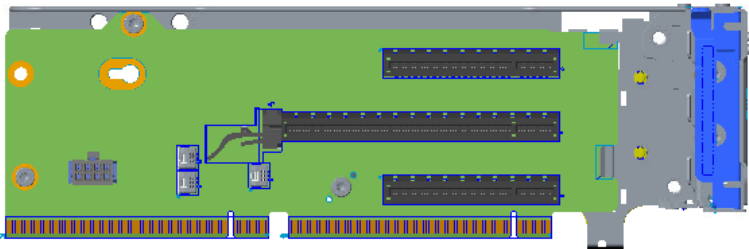
Riser Kit Overview

SFF/LFF Primary & Secondary 2U Risers

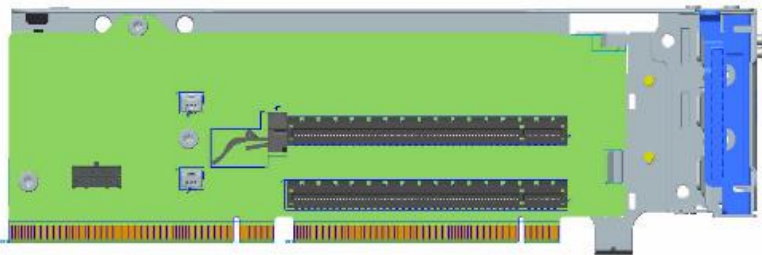
Base (3) slot riser with M.2 connectors (Primary default)



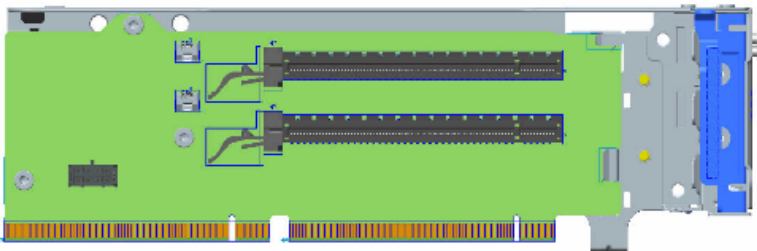
Optional (3) slot riser (Secondary) - 870548-B21 HPE DL Gen10 x8/x16/x8 Riser Kit



Optional (2) slot GPU riser (bottom) - 826704-B21 HPE DL Gen10 x16/x16 GPU Slot 1/2 Riser Kit



Optional (2) slot GPU riser (top) - 826694-B21 HPE DL38X Gen10 x16/x16 Slot 1/2 Riser Kit



SFF/LFF Tertiary 2U Risers

875780-B21 HPE DL38X Gen10 2 x8 PCIe Tertiary Riser Kit



DL380 Overview



Riser Kit SKU Overview

SKU	DL380 Gen10 risers	Riser position			Bus width (Gen3 lanes)		
		Primary	Secondary	Tertiary	Top slot	Middle Slot	Bottom slot
default	Default 3-slot riser with M.2 connectors	Standard			FH/FL x8	FH/FL x16	FH/FL x8
870548-B21	HPE DL Gen10 x8/x16/x8 Riser Kit		Y		FH/FL x8	FH/FL x16	FH/FL x8
871676-B21	HPE DL Gen10 x16/x16 GPU Slot 2/3 Riser Kit FIO	Y*				FH/FL x16	FH/FL x16
826704-B21	HPE DL Gen10 x16/x16 GPU Slot 2/3 Riser Kit		Y			FH/FL x16	FH/FL x16
871674-B21	HPE DL38X Gen10 x16/x16 Slot 1/2 Riser Kit FIO	Y*			FH/FL x16	FH/FL x16	
826694-B21	HPE DL38X Gen10 x16/x16 Slot 1/2 Riser Kit		Y		FH/FL x16	FH/FL x16	
867807-B21	HPE DL38X Gen10 4-port 8 NVMe Slimline Riser	Y*					
873732-B21	HPE DL38X Gen10 4-port 8 NVMe Slimline 2nd Riser		Y				
867808-B21	HPE DL38X Gen10 2-port 4 NVMe Slimline Riser			Y			
871673-B21	HPE DL38X Gen10 1-port 1 NVMe 3 x8 Slimline Riser Kit FIO	Y*			FH/FL x8	FH/FL x8	FH/FL x8
867806-B21	HPE DL38X Gen10 1-port 1 NVMe 3 x8 Slimline Riser		Y		FH/FL x8	FH/FL x8	FH/FL x8
826700-B21	HPE DL38X Gen10 x16 Tertiary Riser kit			Y	FH/FL x16		
875780-B21	HPE DL38X Gen10 2 x8 PCIe Tertiary Riser Kit			Y	FH/FL x8	FH/FL x8	
826688-B21	HPE DL38X Gen10 2SFF Premium HDD Front NVMe/SAS/SATA Riser	Y*	Y				FH/FL x16
826701-B21	HPE DL380 Gen10 x8/x16/x8 M.2 NEBS Riser	Y*			FH/FL x8	FH/FL x16	FH/FL x8
873209-B21	HPE DL38X Gen10 x8/x16/x8 NEBS Riser		Y		FH/FL x8	FH/FL x16	FH/FL x8
826702-B21	HPE DL380 Gen10 x16/x16 Slot 1/2 NEBS Riser			Y	FH/FL x16	FH/FL x16	
	* This option will REPLACE the Primary PCIe Riser that comes standard with all Model Xs						

