



HP Smart Storage Cables

This cable matrix is intended as a supporting material when upgrading your HP ProLiant Gen9 server to another Smart Array Controller or Smart Host Bus Adapter to increase storage expansion.

HP ProLiant DL380 Gen9

	H240ar	P440ar	P440	P840	H240	SAS Expander	B140i	
SFF configuration	8 SFF drive cage	¹	¹	783009-B21	783009-B21	¹	N/A	Embedded
	16 SFF drive (8+8)	N/A	N/A	²	²	786092-B21	727250-B21 ³	
	24 SFF drive (8+8+8)	N/A	N/A	²	²	786092-B21	727250-B21 ³	
	Front 2 SFF ⁴	N/A	N/A	785989-B21	785989-B21	N/A	727250-B21 ³	
	Rear 2 SFF SATA cage ⁵	N/A	N/A	N/A	N/A	N/A	727250-B21 ⁶	⁷
LFF configuration	4 LFF drive cage	N/A	N/A	785989-B21	785989-B21	N/A	N/A	Embedded
	12 LFF drive cage ⁸	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10 LFF	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8 LFF SAS	N/A	N/A	785991-B21	785991-B21	N/A	727250-B21 ³	Embedded
	Rear 3 LFF SAS	N/A	N/A	N/A	⁹	N/A	727250-B21 ³	
	Rear 2 SFF	N/A	N/A	N/A	783007-B21	N/A	727250-B21 ³	

¹ No extra cables required to purchase when adding the H240, H240ar, or P440ar as the SAS cable that comes with the server works with these cards.

² Each 8 SFF drive cage comes with the cable 747559-001 to connect to the P440 or P840.

³ HP SAS Expander Card comes with all the cables necessary to connect any Smart Storage cards for both LFF and SFF.

⁴ Front 2 SFF drive cage includes SAS cable 776390-001 and SATA cable 776389-001 for 10SFF, 18SFF configurations.

⁵ Rear 2SFF drive cage is supported with 24SFF with expander for 26SFF solution.

⁶ Expander kit comes with necessary cable to connect to the rear 2 SFF drive cage.

⁷ Cable is included in the 2 SFF SATA drive cage kit (option part number 783008-B21) to connect the rear 2 SFF cage to B140i.

⁸ Not field upgradeable; available CTO only.

⁹ Cable 780674-001 ships in the Rear 3 LFF option kit.

HP ProLiant DL360 Gen9

	H240ar	P440ar	P440	P840	H240	SAS Expander	B140i	
SFF configuration	8 SFF drive cage	766209-B21	766209-B21	775927-B21 ¹	766205-B21 ²	775927-B21 ¹	Not supported	Embedded
	10 SFF drive cage (8 SFF + 2 Universal Bay)	N/A	N/A	775927-B21 ¹	766205-B21 ²	775927-B21 ¹	Not supported	³
LFF configuration	4 LFF drive cage	766211-B21	766211-B21	775929-B21	N/A	775929-B21	Not supported	Embedded

¹ Cable Kit P/N 775927-B21 contains five cables; two cables to support P440, two cables to support H240, and one cable to support the 2SFF Universal Bays.

² When adding P840 on slot one of server, please purchase P840 special option kit part number 766205-B21 that contains the required cable.

³ When adding the two SFF Universal Bay, cable is included in the two SFF Universal Bay Kit to connect from B140i to the Universal Bay.

HP ProLiant DL180 Gen9

	H240ar	P440ar	P440	P840	H240	SAS Expander	B140i	
SFF configuration	8 SFF drive	Not supported	Not supported	725578-B21 ¹	725578-B21 ¹	²	N/A	Embedded
	16 SFF drive (8+8)	Not supported	Not supported	725578-B21 ¹	725578-B21 ¹ (quantity of 2)	774870-B21 ³	N/A	
LFF configuration	4 LFF NHP drive ⁴	Not supported	Not supported	Not supported	Not supported	²	Not supported	Embedded
	8 LFF NHP drive ⁴	Not supported	Not supported	Not supported	Not supported	²	Not supported	
	8 LFF HP drive	Not supported	Not supported	725577-B21 ⁵	725577-B21 ⁵	²	N/A	
	12 LFF HP drive	Not supported	Not supported	N/A	725574-B21 ⁶	N/A	Not supported	

¹ Part number 725578-B21 is a HP DL180 Gen9 8 SFF Smart Array Cable Kit.

² When upgrading from B140i to H240 PCIe, use the cable that was connected to B140i.

³ When adding the second 8 SFF drive cage using the H240, add cable kit 774870-B21.

⁴ P440 and P840 are not supported on the NHP drive configurations.

⁵ Part number 725577-B21 is a HP DL180 Gen9 8 LFF Smart Array Cable Kit.

⁶ Part number 725574-B21 is a HP DL180 Gen9 12 LFF HP Enablement Kit; kit contains the backplane and cables necessary to upgrade from 8 LFF HP to 12 LFF HP with the P840.

HP ProLiant DL160 Gen9

	H240ar	P440ar	P440	P840	H240	SAS Expander	B140i	
SFF configuration	8 SFF drive	Not supported	Not supported	774619-B21	Not supported	774621-B21	Not supported	Embedded
LFF configuration	4 LFF drive	Not supported	Not supported	725593-B21	Not supported	725590-B21	Not supported	Embedded

HP ProLiant ML350 Gen9

	H240ar	P440ar	P440	P840	H240	SAS Expander²	B140i	
SFF configuration	8 SFF drive	765652-B21 ¹	765652-B21 ¹	765650-B21	765650-B21	765648-B21	N/A	Embedded
	16 SFF drive (8+8)	N/A	N/A	765650-B21	765650-B21	765648-B21	769635-B21 ^{3,4}	
	24 SFF drive (8+8+8)	N/A	N/A	765650-B21	765650-B21	765648-B21	769635-B21 ^{3,4}	
	32 SFF drive (8+8+8+8)	N/A	N/A	N/A	765650-B21	N/A	769635-B21 ^{3,4}	
	40 SFF drive (8+8+8+8+8)	N/A	N/A	N/A	765650-B21	N/A	769635-B21 ^{3,4}	
	48 SFF drive (8+8+8+8+8+8)	N/A	N/A	N/A	765650-B21	N/A	769635-B21 ^{3,4}	
LFF configuration	8 LFF drive	765652-B21 ¹	765652-B21 ¹	N/A	N/A	N/A	N/A	Embedded
	16 LFF drive (8+8)	N/A	N/A	765650-B21	765650-B21	765648-B21	769635-B21 ^{3,4}	
	24 SFF drive (8+8+8)	N/A	N/A	765650-B21	765650-B21	765648-B21	769635-B21 ^{3,4}	

¹ B140i does not co-exist with H240ar or P440ar; cable kit part number 765652-B21 supports only H240ar and P440ar.


² HP 12 Gb SAS Expander Card Kit for ML350 Gen9 part number 769635-B21 will be available Q4 2014.

³ 769635-B21 SAS Expander Card Kit cannot support H240ar or P440ar.

⁴ 769635-B21 Expander kit contains three cables from expander card to HDD backplanes, and one cable from SA or HBA to expander card.

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