## **HP ProLiant ML350 Generation 4 SCSI Cabling Matrix**

This matrix provides information on cables required to connect internal and external SCSI options.

The ML350 G4 includes a single SCSI cable for the connection of the system hard drives. To use a second SCSI channel for tape backup, drive duplexing, connection of the two-bay drive cage, or connection of external SCSI devices; a second SCSI cable is required.

This second cable is often contained in the kit for the option. Use this matrix to identify any additional cables that may be required.

SCSI cable included with the ML350 G4 models:

Hot-Plug SCSI models (Point-to-point SCSI) 292232-001 Non-Hot-Plug SCSI models (Four drop) 367168-001

Option	SCSI Connector on the Option	Cable Type Included with the Option	Supported HBAs/Controllers	Additional Cables Required
Internal Hot Plug Hard Drives o	and Tape Drives			
Ultra320 Hot Plug Hard Drives			The hot plug drive cage can be connected to one of the following:	
DAT40 Hot Plug		No SCSI cable included with	Ultra320 Integrated SCSI Controller (on server system board)	
DAT72 Hot Plug	N/A	the option	Smart Array 641, 642, 6402, or 6404	No additional cables required
		'	64-Bit/133-MHz Dual Channel Ultra320 (P/N 268351-B21)	
			64-Bit/66-MHz Dual Channel Wide Ultra 3 (P/N 284688-B21)	
nternal Non Hot Plug Hard Dri	ives			
			The non-hot plug drive cage can be connected to one of the following:	
Ultra320 Non Hot Plug Hard		No SCSI cable included with	Ultra320 Integrated SCSI Controller (on server system board)	
Drives in Standard Non Hot Plug	LVD wide 68-pin	the option	Smart Array 641, 642, 6402, or 6404	No additional cables required
Drive Cage		·	64-Bit/133-MHz Dual Channel Ultra320 (P/N 268351-B21) 64-Bit/66-MHz Dual Channel Wide Ultra 3 (P/N 284688-B21)	
_			64-BIT/ 60-MHZ Dual Channel Wide Ulfra 3 (P/ N 284688-B21)	
nternal Tape				
DAT 24:**	IVD Name of EO air	50-to-68 pin adapter and	64-Bit/133-MHz Dual Channel Ultra320 (P/N 268351-B21)	Nie additional achier acciond
DAT 24i**	LVD Narrow 50-pin	HD68-HD68 cable	64-Bit/66-MHz Dual Channel Wide Ultra 3 (P/N 284688-B21)  **DAT 24i not supported with embedded HBA	No additional cables required
DAT 40i			DAT 241 Not supported with embedded TIBA	
DAT 72i				
Ultrium 215i			Ultra320 Integrated SCSI Controller (on server system board)	
Ultrium 230i	LVD wide 68-pin	HD68-HD68	64-Bit/133-MHz Dual Channel Ultra320 (P/N 268351-B21)	No additional cables required
Ultrium 460i			64-Bit/66-MHz Dual Channel Wide Ultra 3 (P/N 284688-B21)	
DLT VS 80i				
SDLT 320i				
xternal Direct Attach Storage			0 11 112	
MS A 20	VHDCI	VHDCI VHDCI 3ti	Smart Array 6402 and 6404	No additional solution of the
MSA 20	VIDCI	VHDCI-VHDCI 3ft	64-Bit/133-MHz Dual Channel Ultra320 (P/N 268351-B21) 64-Bit/66-MHz Dual Channel Wide Ultra 3 (P/N 284688-B21)	No additional cables required
		_	5 . 5m, 55 mm 2 55dr Shamer Tride 5md 5 (1/14 204000:021)	Order the VHDCI internal-to-external kit
			Ultra320 Integrated SCSI Controller (on server system board)	(P/N 333370-B21)
MSA 30	VHDCI	VHDCI-VHDCI 6ft	Smart Array 641 , 642, 6402, and 6404	(1/14 0000/0 B21)
			64-Bit/133-MHz Dual Channel Ultra320 (P/N 268351-B21)	No additional cables required
			64-Bit/66-MHz Dual Channel Wide Ultra 3 (P/N 284688-B21)	
MSA 500	VHDCI	VHDCI-VHDCI 6ft	Smart Array 642	No additional cables required
xternal Tape and Optical Stor	age			
DAT 04.**	17/07/1 50 :	50-to-68 pin adapter and	64-Bit/133-MHz Dual Channel Ultra320 (P/N 268351-B21)	NI The Late of
DAT 24e**	LVD Narrow 50-pin	HD68-HD68 cable	64-Bit/66-MHz Dual Channel Wide Ultra 3 (P/N 284688-B21)  **DAT 24i not supported with embedded HBA	No additional cables required
			DAT 241 not supported with embedded FIBA	
D.17.10				
DAT 40e DAT 72e			UI 2001	
Ultrium 215e			Ultra320 Integrated SCSI Controller (on server system board)	Order the VHDCI internal-to-external kit (P/N 333370-B21)
Ultrium 230e	LVD Wide 68-pin	HD68-VHDCI		(1/14 3333/0-621)
Ultrium 460e			64-Bit/133-MHz Dual Channel Ultra320 (P/N 268351-B21)	
DLT VS 80e			64-Bit/66-MHz Dual Channel Wide Ultra 3 (P/N 284688-B21)	No additional cables required
SDLT 320e			,	
SDLT 600e				
xternal Tape Autoloaders				
1/8 Ultrium 230				
1/8 Ultrium 460			Ultra320 Integrated SCSI Controller (on server system board)	Order the VHDCI internal-to-external kit
1/8 DLT VS 80		<del>-</del>		(P/N 333370-B21)
SSL1016 Ultrium 230 SSL1016 Ultrium 460	LVD Wide 68-pin	HD68-VHDCI 1.5 m	44 P. 2/122 A.H. D. J. Ch	
SSL1016 Ulfrium 460	·		64-Bit/133-MHz Dual Channel Ultra320 (P/N 268351-B21) 64-Bit/66-MHz Dual Channel Wide Ultra 3 (P/N 284688-B21)	No additional cables required
DAT 40x6			5-Fully 00-1411 12 Dual Chaillier Whate Office 5 (F/ IN 204000-D21)	
DAT 72x6				
xternal Tape Libraries				
MSL6030				Order the VHDCl internal-to-external kit
MSL6060				(P/N 333370-B21)
MSL5026S2			Ultra320 Integrated SCSI Controller (on server system board)	and one of the following VHDCI-VHDCI cables
MSL5052S2 MSL5030	\/I IDC	Ni. CCCI II · I I I	<u> </u>	VHDCI-VHDCI cable. 6ft (P/N 341174-B21)
MSL5030	VHDCI	No SCSI cable included		VHDCI-VHDCI cable. 12ft (P/N 341175-B21 Order one of the following VHDCI-VHDCI cabl
ESL9595			64-Bit/133-MHz Dual Channel Ultra320 (P/N 268351-B21)	VHDCI-VHDCI cable. 6ft (P/N 341174-B21)
ESL9000			64-Bit/66-MHz Dual Channel Wide Ultra 3 (P/N 284688-B21)	VHDCI-VHDCI cable. 31 (F/N 341174-B21)
ptical Jukeboxes				
300mx				Order the VHDCI internal-to-external kit
600mx			Ultra320 Integrated SCSI Controller (on server system board)	(P/N 333370-B21)
700mx				and one of the following VHDCI-VHDCI cable:
1200mx	LVD Wide 68-pin	No CCILi. ( l . l . l		VHDCI-VHDCI cable. 6ft (P/N 341174-B21)
2200		No SCSI cable included		VHDCI-VHDCI cable. 12ft (P/N 341175-B21)
2200mx	LVD VVIde 00-pin			Order one of the following HDAR VHDCL askla
2200mx	LVD vvide 66-pin			
2200mx	LVD VVIde oo-pin	_	64-Bit/66-MHz Dual Channel Wide Ultra 3 (P/N 284688-B21)	Order one of the following HD68-VHDCI cable VHDCI-HD68 cable. 6ft (P/N 341176-B21) VHDCI-HD68 cable. 12ft (P/N 341177-B21)

NOTE: The information in this matrix lists whether or not additional cables need to be purchased with each controller-to-option configuration. For information on how to cable an option, refer to the HP ProLiant ML350 Generation 4 Reference and Troubleshooting Guide and the device-specific documentation. For information on the specific options supported by the server, refer to the server and device QuickSpecs.