

Hewlett-Packard

Hot-Pluggable SCSI Hard Drive Compatibility

This document provides current compatibility information between HP Universal SCSI drives and servers and storage systems for Hot-Pluggable systems. Basic drive characteristics are provided to help understand any compatibility limitations.

The following guidelines apply when selecting drives for HP systems:

- Drives for Hot-Pluggable systems are mounted on the appropriate Hot-Pluggable drive tray or carrier.
- Some Hot-Pluggable systems support Non-Pluggable drives in 5.25-inch removable media drive bays with appropriate mounting. These drives require appropriate terminated internal SCSI cabling.
- The compatibility table in this document represents tested and supported configurations for these drives. Using HP Universal hard drives in unsupported configurations will void the warranty and could damage the drive and/or cause data loss.
- Ultra2, Ultra3 and Ultra320 drives can be mixed on the same SCSI bus. Wide Ultra drives should not be used on the same SCSI bus as Ultra2, Ultra3 or Ultra320 devices.

A Word About HP Universal SCSI Disk Drives

The high performance and reliability requirements of server environments mean that selecting the right drives for your system is critical. HP has developed one of the industry's most rigorous programs for qualification, continuous testing, and system integration to ensure that our server and storage customers obtain the best drives available.

- **Fault Prediction**—Drive firmware has been enhanced to enable monitoring software to detect conditions in the drive parameters that are precursors to failure. If problems develop in a HP Universal drive, the Smart Array controller lets you know in advance so you can replace the drive under the HP Pre-Failure Warranty.* Additionally, Ultra2, Ultra3 and Ultra320 SCSI drives now support SMART predictive failure reporting. SMART Pre-Failure reporting works in both array and nonarray controller server environments. SMART predictive failure reporting is a complement to the Pre-Failure notification provided by HP Smart Array controllers and HP Insight Manager software. Ultra2, Ultra3 and Ultra320 SCSI drives that experience SMART trips are also covered under the HP Pre-Failure Warranty.
- **Quality**—HP drives undergo an intense qualification process that eliminates data integrity problems, firmware and O/S incompatibilities, and other causes of data corruption or premature failure.
- **Performance**—Only those drives whose performance is suitable for a server environment are selected through HP's qualification process and are considered "best in class."
- **Integration**—The integration of hard drives in HP systems means that cables, SCSI ID settings, terminations, hot-plug drive trays, and firmware are right for your server or storage system.

*Requires installation in a HP server using HP Insight Manager 2.1 or later and a HP Smart Array Controller.

HP Hot-Pluggable Ultra3/Ultra320 SCSI Hard Drive Compatibility Table

Drive Information

Hot-Pluggable Systems

Capacity (GB)	Interface*	Form Factor**	Connector***	ProLiant DL760	ProLiant DL760 G2/G3	ProLiant DL740 G3	ProLiant DL585	ProLiant DL580	ProLiant DL580 G2/G3	ProLiant DL560 G2/G3	ProLiant DL380	ProLiant DL380 G2/G3	ProLiant DL380 G4	ProLiant DL360	ProLiant DL360 G2	ProLiant DL360 G3	ProLiant DL360 G4	Storage Works Enclosure 4300 Family	ProLiant ML570 G2	ProLiant ML530	ProLiant ML530 G2	ProLiant ML370	ProLiant ML370 G2	ProLiant ML370 G3	ProLiant ML 370 G4	ProLiant ML350 HP	ProLiant ML 350 G2	ProLiant ML350 G3/G4	ML150/G2	BL20p/G2	BL40p/G3
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Option Kits (Spares Kit)

Hot-Pluggable Drive Bays ****

Supported Drive Models

Option Kit (Spares Kit)	Capacity (GB)	Interface	Form Factor	Connector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Supported Drive Models
350964-B22+ (351126-001)	300	U320	1"	80	1	2	2	3		3	3	1	3	X	1	2	2	X	2	3	1	3	1	2	3	X	1	2	X	2	2	2	BD300884C2 BD30088279 BD3008856C		
347708-B22+ (347779-001)	146.8	U320	1"	80	1	2	2	3	1	3	3	1	3	X	1	2	2	X	2	3	1	3	1	2	3	X	1	2	X	2	2	2	BF14687B56 BF14688286 BF14688577		
286716-B22+ (289044-001)	146.8	U320	1"	80	1	2	2	3	1	3	3	1	3	X	1	2	2	X	2	3	1	3	1	2	3	X	1	2	X	2	2	2	BD14685A26 BD146863B3 BD14686225 BD1468856B BD14688278 BD14687B52		
286714-B22+ (289042-001)	72.8	U320	1"	80	1	2	2	3	1	3	3	1	3	X	1	2	2	X	2	3	1	3	1	2	3	X	1	2	X	2	2	2	BD07285A25 BD072863B2 BD07286224 BD0728856A BD07288277 BD07287B4C		
286778-B22± (289243-001)	72.8	U320	1"	80	1	2	2	3	1	3	3	1	3	X	1	2	2	X	2	3	1	3	1	2	3	X	1	2	X	2	2	2	BF07285A36 BF072863B6 BF072863BA BF07287B55 BF07288576 BF07288285		
232432-B22+ (233349-001)	72.8	U3	1"	80	1	X	X	X	1	X	X	1	X	2	1	X	2	2	X	X	1	1	1	X	X	2	1	X	2	X	X	X	BD07264546 BD0726459C BD0726536C BD07265A22		

286713-B22+ (289041-001)	36.4	U320	1"	80	1	2	2	3	1	3	3	1	3	X	2	2	2	X	2	3	1	3	1	2	3	X	1	2	X	2	2	2	BD03685A24 BD036863AC BD03686223
286776-B22± (289241-001)	36.4	U320	1"	80	1	2	2	3	1	3	3	1	3	X	1	2	2	X	2	3	1	3	1	2	3	X	1	2	X	2	2	2	BF03685A35 BF036863B5 BF036863B9 BF03687B54 BF03688575 BF03688284
232916-B22± (233350-001)	36.4	U3	1"	80	1	X	X	X	1	X	X	1	X	2	1	X	2	2	X	X	1	1	1	X	X	2	1	X	2	X	X	X	BF03664664 BF03665223 BF03665A32
176496-B22+ (177986-001)	36.4	U3	1"	80	1	X	X	X	1	X	X	1	X	2	1	X	2	2	X	X	1	1	1	X	X	2	1	X	2	X	X	X	BD0366349C BD036635C5 BD03663622 BD03663992 BD03664545 BD0366459B BD03664553 BD0366536B BD036659CC
286775-B22± (289240-001)	18.2	U320	1"	80	1	2	2	3	1	3	3	1	3	X	1	2	2	X	2	3	1	3	1	2	3	X	1	2	X	2	2	2	BF01885A34 BF018863B4 BF018863B8
188122-B22± (189395-001)	18.2	U3	1"	80	1	X	X	X	1	X	X	1	X	2	1	X	2	2	X	X	1	1	1	X	X	2	1	X	2	X	X	X	BF01863644 BF01864663 BF01865222 BF01865A2C
142673-B22+ (152190-001)	18.2	U3	1"	80	1	X	X	X	1	X	X	1	X	2	1	X	2	2	X	X	1	1	1	X	X	2	1	X	2	X	X	X	BD01862376 BD01862A67 BD0186349B BD018635C4 D018635CC BD0186398C BD01864544 BD0186459A BD01864552

- + Contains 10,000 RPM drives.
- ±Contains 15,000 RPM drives.

*** Interface**

U3 = Wide Ultra3 SCSI

U320=Wide Ultra320 SCSI

****Form Factor**

1"= standard third height (1-inch) form factor drive.

*****Connector –SCSI signal connector on drive**

80= 80pin male SCSI, SCA connector.

******Compatibility Notes**

Blank = Not compatible.

X = Compatible unconditionally.

1 = Requires HP Ultra3 Controller and/or cabling to run at Ultra3 speeds.

Does not support Ultra320 bus speeds.

2 = Limited to Wide Ultra3 bus speeds.

3 = Requires HP Ultra320 Controller to run at Ultra320 speeds.

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