### COMPAQ

# Non-Pluggable SCSI Hard Drive Compatibility

This document provides current compatibility information between Compaq SCSI drives and Compaq servers and workstations. Basic drive characteristics are provided to help understand any compatibility limitations.

The following guidelines apply when selecting drives for Compaq systems:

- Drives for Non-Pluggable systems are mounted in 3.5-inch internal drive bays and require appropriate terminated internal SCSI cabling.
- Non-Pluggable systems and some Hot-Pluggable systems support drives in 5.25-inch removable media drive bays with appropriate mounting hardware. These drives require appropriate terminated internal SCSI cabling.
- Rack-mountable servers are included in the listing of the tower version of the same model.
- The compatibility table in this document represents tested and supported configurations for these drives. Using Compaq hard drives in unsupported configurations will void the warranty and could damage the drive and/or cause data loss.
- Ultra2 and Ultra3 devices can be mixed on the same SCSI bus.
  Wide Ultra devices should not be used on the same SCSI bus as Ultra2 or Ulta3 devices.
- For ease of deployment, do not combine Ultra2 or Ultra3 drives and previous version SCSI drives. Mixed RAID sets can be used, however, some combinations may require reconfiguring the RAID array (such as adding Ultra2 drives to an existing RAID array of ProLiant-type Wide-Ultra drives).
- Only supported cable configurations should be used. Attempting to use previous version SCSI cables in Ultra2 or Ultra3 systems can result in data loss.

## A Word About Compaq Disk Drives

The high performance and reliability requirements of server and workstation environments mean that selecting the right drives for your system is critical. Compaq has developed one of the industry's most rigorous programs for qualification, continuous testing, and system integration to ensure that our storage customers get 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 Compaq drive, the array controller lets you know in advance so you can replace the drive under the Compaq Pre-Failure Warranty.\* Additionally, Compaq Wide-Ultra, Ultra2 and Ultra3 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 Compaq SMART Array controllers and Compaq Insight Manager software. Compaq Wide-Ultra, Ultra2 and Ultra3 SCSI drives that experience SMART trips are also covered under the Compaq Pre-Failure Warranty.
- Quality—Compaq 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 or workstation environment are selected through Compaq's qualification process and are considered "best in class."
- Integration—The integration of hard drives in Compaq systems means that cables, SCSI ID settings, termination, and firmware are right for your Compaq server, workstation, or storage system.

<sup>\*</sup>Requires installation in a Compaq server using Compaq Insight Manager and a Compaq array controller.

# **Compaq Non-Pluggable SCSI Hard Drive Compatibility Table**

	ı
Interface*	Dr nforr
Form Factor**	ive natio
Connector***	on
ProLiant 850 R-H	
ProLiant 1200	
ProLiant 1600	
ProLiant 1000, 2000, 4000	Но
ProLiant 1500, 5000	t-PI
ProLiant 2500	ugga
ProLiant 3000, 5500	ble S
ProLiant 4500	yste
ProLiant 1850R	ms
ProLiant ML350HP	
ProLiant DL380	
ProLiant ML370	
ProLiant 400	
ProLiant 800 6/200, 6/350	
ProLiant 800 6/350e & above	
ProLiant 850 R-N	
ProLiant 2500	N
ProSignia 200 (Model 1 SCSI)	lon-
ProSignia 300, 500	·Plu
ProSignia 720	ggal
ProSignia 740	ble S
Pro Workstation AP400	Syst
Pro Workstation AP500, SP700	ems
Pro Workstations 5000, 5100	3
Pro Workstations 6000, 8000	
ProLiant DL320	
ProLiant ML330	
ProLiant ML350	

Option Kits Removable Media Bays \*\*\*\* Internal Drive Models Supported Drive Models (Spares Kit)

(Spares Kil)																																
176497-B21+ (177987-001)	36.4	U3	1"	68	14	6, 14	6, 14			6, 14	14		14	14	14	6, 14			14		6, 14					8, 14	9, 14		11		14	14
142676-B21+ (152193-001)	36.4	U3	1.6"	68	14	7,14	7,14			7,14	13,14		14		14	7,14			14		7,14						9,14					
142674-B21+ (152191-001)	18.2	U3	1"	68	14	6,14	6,14			6,14	14		14	14	14	6,14			14		6,14					8,14	9,14		11	14	14	14
128419-B21+ (143921-001)	18.2	WU2	1"	68	10	6,10	6,10			6,10	10		10	Χ	10	6,10			10		6,10					8	9		11	Χ	Х	Х
388143-B21 (104664-001)	18.2	WU2	1"	68	10	10	10	2,4	10	10	10	2,4	10	Χ	10	10	10	10	10	10	10	10	10	10	10	12	Х	11	11	Χ	Χ	Х
328943-B21+ (386540-001)	18.2	WU2	1.6"	68		7,10	7,10			7,10	10,13		10		10	7,10			10		7,10						9					
336370-B21+ (336385-001)	18.2	WU	1.6"	68		3,7	7			3,7	13		Χ		Χ	7			Х		7						9					
142672-B21+ (152189-001)	9.1	U3	1"	68	14	6,14	6,14			6,14	14		14	14	14	6,14			14		6,14					8,14	9,14		11	14	14	14
349526-B21 (349534-001)	9.1	WU2	1"	68	10	10	10	2,4	10	10	10	2,4	10	Х	10	10	10	10	10	10	10	10	10	10	10	Х	χ	11	11	Χ	Χ	Х
328942-B21+ (386539-001)	9.1	WU2	1"	68	10	6,10	6,10			6,10	10		10	Χ	10	6,10			10		6,10					8	9		11	Χ	Х	Х
336369-B21+ (336384-001)	9.1	WU	1"	68	3	3,6	6			3,6	χ		Χ		Χ	6			Х		6					8	9		Χ			
339509-B21 (339515-001)	9.1	WU	1"	68	3	3	Х	2,4	3	3	Χ	2,4	Χ		Χ	Х	Χ	Χ	Χ	Х	Χ	Х	3	Χ	Χ	Х	Χ	Χ	Χ			
199884-001 (199886-001)	9.1	WU	1.6"	68		3	Х	2,4	3	3	13	2,4	Χ		Χ	Х				Х	Χ		3					Χ	Χ			
199883-001 (199885-001)	9.1	F	1.6"	50		2,5	5	Χ	Χ	2,5	5,13	Χ				5				5	5		Χ									

BD036734A5, BD036735C8, BD03673625
BC0367237A
BD01872377, BD01872A6A, BD018734A4
BD018735C7, BD01873624
BD018222CA, BD018222C1
BB01821AC3, BB018222B8,
BB01823469, BB018235B7
BC1821938
HC01841729
BD00972374, BD00972A69, BD009734A3
BD009735C6, BD00973623
BB00921791, BB00921B91, BB009222B5
BB00923468, BB09235B6
BD00921937, BD009222C7, BD009222BB
HD0094172B
DDRS-39130, MAB3091SP, HB00941AA1
3391WS, ST19171W
3391NS, ST19171N

Contains 10,000 RPM drives. All other drives are 7,200 RPM unless noted otherwise.

\*Interface

**U3** = Ultra3

**WU** = Wide-Ultra SCSI-3 **WU2** = Wide Ultra2 SCSI

**FW** = Fast-Wide SCSI-2

**F** = Fast-SCSI-2

\*\*Form Factor

1.6" = standard half-height (1.6-inch) form factor drive

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

\*\*\*Connector - SCSI signal connector on drive

**Blank** = Not compatible

**68** = 68-pin, Female, Fast-Wide SCSI-2 or Wide-Ultra SCSI-3 connector

**50** = 50-pin, Male, Standard Fast-SCSI-2 (Narrow) connector

### \*\*\*\* Compatibility Notes:

- $\mathbf{X} =$ Compatible unconditionally.
- 1 = A maximum of 3 drives is supported provided that the sustained room temperatures do not exceed 30°C (86°F).
- 2 = Requires optional Fast-Wide SCSI-2 controller or adapter, and/or Fast-Wide SCSI-2 cabling. Some models may not support these options.
- 3 = Requires optional Wide-Ultra SCSI-3 controller and/or cabling to use Wide-Ultra bus speeds. Some models may not support these options.
- **4** = Limited to Fast-Wide SCSI-2 operation.
- **5** = Requires 68-to-50 pin adapter (may be supplied).
- **6** = When used in a rack-mounted server in conjunction with the Compaq Hot Plug Redundant Power Supply (PN 283697-B21/291) at altitudes above 5,000 feet (1,520 meters), the server should not be operated in ambient temperatures exceeding 86°F (30°C).
- 7 = When used in a tower server in conjunction with the Compaq Hot Plug Redundant Power Supply (PN 283697-B21/291) at altitudes above 5,000 feet (1,520 meters), the server should not be operated in ambient temperatures exceeding 86°F (30°C). 1.6-inch 10K hard drives are not supported in rack configurations with the Compag Hot Plug Redundant Power Supply
- 8 = Only supported in bays 4 and 5. Also requires 10K Drive Mounting/Cooling Kit (PN329302-B21).
- **9** = Requires 10K Drive Cooling Kit (PN329294-B21) when mounting in bays 5 and 6.
- 10 = Requires optional Wide Ultra2 SCSI controller and/or cabling to use Wide Ultra2 bus speeds. Some models may not support these options.
- **11** = Limited to Wide-Ultra SCSI-3 operation.
- **12** = Supported in bays 2 and 4 only.
- 13 = A 1.6-inch drive will occupy 2 bays.
- 14 = Requires optional Wide Ultra3 SCSI controller and/or cabling to use Wide Ultra3 bus speeds. Some models may not support these options.

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