



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 Ultra3 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.

*Requires installation in a Compaq server using Compaq Insight Manager and a Compaq array controller.

****** Compatibility Notes:**

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 Compaq 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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