

Compatibility Matrix

Ultrastar® Data60

Firmware 4011-005 (SEP), 4.0.111 (OOBM)

Document D018-000235-000

Revision 20

April 2025



The Western Digital System Integration Lab tested the Ultrastar Data60 for the following hardware components and operating systems to demonstrate functional compatibility. Other combinations of hardware and software are expected to function with this product family but have not been evaluated.

Newly qualified device models are listed by category on the right. To use this document, click on the provided link to be taken to a detailed listing of the compatibility information for that specific device type. Or scroll down to view details for all tested devices.

HBAs & RAID Adapters

- Adaptec® 1100-8e
- Areca® ARC-1886-8x, 1883x
- Broadcom® 9300-8e, -4i4e, -16e
- 9302-16e
- 9305-16e
- MegaRAID 9380-8e
- 9400-16e, -8i8e, -8e
- 9405w-16e
- MegaRAID 9480-8i8e
- 9500-8e, -16e
- MegaRAID 9580-8i8e
- 9600-16e
- 9600w-16e
- Oracle 9300-8e

Ultrastar Drives

- DC HC510 CMR 8TB
- DC HC510 CMR 10TB
- DC HC530 CMR 14TB
- DC HC550 CMR 16TB
- DC HC550 CMR 18TB
- DC HC555 CMR 12TB
- DC HC555 CMR 14TB
- DC HC555 CMR 16TB
- DC HC555 CMR 18TB
- DC HC555 CMR 20TB
- DC HC560 CMR 20TB
- DC HC570 CMR 22TB
- DC HC580 CMR 22TB
- DC HC580 CMR 24TB
- DC HC650 SMR 20TB
- DC HC590 CMR 24TB
- DC HC590 CMR 26TB
- DC HC670 SMR 26TB
- DC HC680 SMR 26TB
- DC HC690 SMR 30TB

Cables

- Active (Optical) – 2m, 3m 4m, 5m, 6m, 10m
- Passive (Copper) – 2m, 3m

1.1 HBA Compatibility

Adaptec 1100-8e

Table 1: Adaptec1100-8e Interoperability Notes

| | Linux | Windows |
|--|--|----------------|
| Firmware | 6.81 | 6.81 |
| Driver | 2.1.28-025 | 1010.96.0.1007 |
| Operating System Support | | |
| Microsoft® Windows | 2019 R1 x64 Server | Supported |
| | 2022 R1 x64 Server | Supported |
| CentOS/RedHat® Enterprise Linux (RHEL) | 8.8 (x86_64) Kernel: 4.18.0-477 | Not Tested |
| | 9.0 (x86_64) Kernel: 5.14.0-70 | Not Tested |
| | 9.2 (x86_64) Kernel: 5.14.0-284 | Not Tested |
| | 9.3 (x86_64) Kernel: 5.14.0-362 | Not Tested |
| Ubuntu® Server | 20.04 Kernel: 5.4 | Supported |
| | 22.04 Kernel: 5.15 | Supported |
| Debian GNU/Linux | 9.8 Kernel: 4.9 | Not Tested |
| | 10 Kernel: 4.19 | Not Tested |
| | 11 Kernel: 5.10 | Not Tested |
| Oracle Linux (OL) | 7.9 Kernel: UEK r6 | Not Tested |
| FreeBSD® | 13.2 | Not Tested |



Attention: For all HBAs using CentOS/RedHat® Enterprise Linux (RHEL), Ubuntu® Server, or Debian GNU/Linux. If the drives being used exceed 16TiB (equivalent to 16.37 TB) capacity, you must use the Ext4 or XFS file system. Using the Ext3 files system with a drive capacity higher than 16TiB (equivalent to 16.37 TB) will result in an **"too big to be expressed"** error message.

Areca ARC-1886-8x, 1883x

Table 2: ArecaARC-1886-8x, 1883x Interoperability Notes

| | Linux | Windows |
|--|--|------------|
| Firmware | 1.58 | 1.58 |
| Driver | 1.50.0X.07 | 6.20.00.38 |
| Operating System Support | | |
| Microsoft® Windows | 2019 R1 x64 Server | Supported |
| | 2022 R1 x64 Server | Supported |
| CentOS/RedHat® Enterprise Linux (RHEL) | 8.8 (x86_64) Kernel: 4.18.0-477 | Supported |
| | 9.0 (x86_64) Kernel: 5.14.0-70 | Supported |
| | 9.2 (x86_64) Kernel: 5.14.0-284 | Supported |
| | 9.3 (x86_64) Kernel: 5.14.0-362 | Supported |
| Ubuntu® Server | 20.04 Kernel: 5.4 | Not Tested |
| | 22.04 Kernel: 5.15 | Not Tested |
| Debian GNU/Linux | 9.8 Kernel: 4.9 | Not Tested |
| | 10 Kernel: 4.19 | Not Tested |
| | 11 Kernel: 5.10 | Not Tested |
| Oracle Linux (OL) | 7.9 Kernel: UEK r6 | Not Tested |
| FreeBSD® | 13.2 | Not Tested |



Attention: For all HBAs using CentOS/RedHat® Enterprise Linux (RHEL), Ubuntu® Server, or Debian GNU/Linux . If the drives being used exceed 16TiB (equivalent to 16.37 TB) capacity, you must use the Ext4 or XFS file system. Using the Ext3 files system with a drive capacity higher than 16TiB (equivalent to 16.37 TB) will result in an **"too big to be expressed"** error message.

Broadcom 9300-8e, -4i4e, -16e

Table 3: Broadcom9300-8e, -4i4e, -16e Interoperability Notes

| | Linux | Windows |
|--|--|-------------|
| Firmware | 16.00.17.00 | 16.00.17.00 |
| Driver | 39.100.00.00 CentOS/RHEL 8.0 and above: 41.00.00.00-1 | 2.51.27.01 |
| Operating System Support | | |
| Microsoft® Windows | 2019 R1 x64 Server | Supported |
| | 2022 R1 x64 Server | Supported |
| CentOS/RedHat® Enterprise Linux (RHEL) | 8.8 (x86_64) Kernel: 4.18.0-477 | Supported |
| | 9.0 (x86_64) Kernel: 5.14.0-70 | Supported |
| | 9.2 (x86_64) Kernel: 5.14.0-284 | Supported |
| | 9.3 (x86_64) Kernel: 5.14.0-362 | Supported |
| Ubuntu® Server | 20.04 Kernel: 5.4 | Supported |
| | 22.04 Kernel: 5.15 | Supported |
| Debian GNU/Linux | 9.8 Kernel: 4.9 | Supported |
| | 10 Kernel: 4.19 | Supported |
| | 11 Kernel: 5.10 | Supported |
| Oracle Linux (OL) | 7.9 Kernel: UEK r6 | Supported |
| FreeBSD® | 13.2 | Not Tested |



Note: To increase the responsiveness of the topology during the event of a cable pull, IOM/ESM reset, or drive pull, use ScrutinyCLI (version 32 or later) to change the `Task Management Reset Type` on the HBA(s) from `Target Reset` to `I_T Nexus Reset`, and change the `DMD` settings on the HBA from 0 to 21 seconds. See https://support-en.westerndigital.com/app/answers/detail/a_id/32058 for more details.



Important: Active Optical SAS cable support is limited to Broadcom 9300-, 9302-, 9305-, 9400-, 9500-, and 9600-series HBAs.



Attention: For all HBAs using CentOS/RedHat® Enterprise Linux (RHEL), Ubuntu® Server, or Debian GNU/Linux. If the drives being used exceed 16TiB (equivalent to 16.37 TB) capacity, you must use the Ext4 or XFS file system. Using the Ext3 files system with a drive capacity higher than 16TiB (equivalent to 16.37 TB) will result in an **"too big to be expressed"** error message.

Broadcom 9302-16e

Table 4: Broadcom9302-16e Interoperability Notes

| | Linux | Windows |
|--|--|-------------|
| Firmware | 16.00.17.00 | 16.00.17.00 |
| Driver | 39.100.00.00 | 2.51.27.01 |
| Operating System Support | | |
| Microsoft® Windows | 2019 R1 x64 Server | Supported |
| | 2022 R1 x64 Server | Supported |
| CentOS/RedHat® Enterprise Linux (RHEL) | 8.8 (x86_64) Kernel: 4.18.0-477 | Supported |
| | 9.0 (x86_64) Kernel: 5.14.0-70 | Supported |
| | 9.2 (x86_64) Kernel: 5.14.0-284 | Supported |
| | 9.3 (x86_64) Kernel: 5.14.0-362 | Supported |
| Ubuntu® Server | 20.04 Kernel: 5.4 | Supported |
| | 22.04 Kernel: 5.15 | Supported |
| Debian GNU/Linux | 9.8 Kernel: 4.9 | Not Tested |
| | 10 Kernel: 4.19 | Not Tested |
| | 11 Kernel: 5.10 | Not Tested |
| Oracle Linux (OL) | 7.9 Kernel: UEK r6 | Not Tested |
| FreeBSD® | 13.2 | Not Tested |



Note: To increase the responsiveness of the topology during the event of a cable pull, IOM/ESM reset, or drive pull, use ScrutinyCLI (version 32 or later) to change the `Task Management Reset Type` on the HBA(s) from `Target Reset` to `I_T Nexus Reset`, and change the `DMD` settings on the HBA from 0 to 21 seconds. See https://support-en.westerndigital.com/app/answers/detail/a_id/32058 for more details.



Important: Active Optical SAS cable support is limited to Broadcom 9300-, 9302-, 9305-, 9400-, 9500-, and 9600-series HBAs.



Attention: For all HBAs using CentOS/RedHat® Enterprise Linux (RHEL), Ubuntu® Server, or Debian GNU/Linux. If the drives being used exceed 16TiB (equivalent to 16.37 TB) capacity, you must use the Ext4 or XFS file system. Using the Ext3 files system with a drive capacity higher than 16TiB (equivalent to 16.37 TB) will result in an **"too big to be expressed"** error message.

Broadcom 9305-16e

Table 5: Broadcom9305-16e Interoperability Notes

| | Linux | Windows |
|--|--|-------------|
| Firmware | 16.00.13.00 | 16.00.13.00 |
| Driver | 39.100.00.00 | 2.51.27.01 |
| Operating System Support | | |
| Microsoft® Windows | 2019 R1 x64 Server | Supported |
| | 2022 R1 x64 Server | Supported |
| CentOS/RedHat® Enterprise Linux (RHEL) | 8.8 (x86_64) Kernel: 4.18.0-477 | Supported |
| | 9.0 (x86_64) Kernel: 5.14.0-70 | Supported |
| | 9.2 (x86_64) Kernel: 5.14.0-284 | Supported |
| | 9.3 (x86_64) Kernel: 5.14.0-362 | Supported |
| Ubuntu® Server | 20.04 Kernel: 5.4 | Supported |
| | 22.04 Kernel: 5.15 | Supported |
| Debian GNU/Linux | 9.8 Kernel: 4.9 | Not Tested |
| | 10 Kernel: 4.19 | Not Tested |
| | 11 Kernel: 5.10 | Not Tested |
| Oracle Linux (OL) | 7.9 Kernel: UEK r6 | Not Tested |
| FreeBSD® | 13.2 | Not Tested |



Note: To increase the responsiveness of the topology during the event of a cable pull, IOM/ESM reset, or drive pull, use ScrutinyCLI (version 32 or later) to change the `Task Management Reset Type` on the HBA(s) from `Target Reset` to `I_T Nexus Reset`, and change the `DMD` settings on the HBA from 0 to 21 seconds. See https://support-en.westerndigital.com/app/answers/detail/a_id/32058 for more details.



Important: Active Optical SAS cable support is limited to Broadcom 9300-, 9302-, 9305-, 9400-, 9500-, and 9600-series HBAs.



Attention: For all HBAs using CentOS/RedHat® Enterprise Linux (RHEL), Ubuntu® Server, or Debian GNU/Linux. If the drives being used exceed 16TiB (equivalent to 16.37 TB) capacity, you must use the Ext4 or XFS file system. Using the Ext3 files system with a drive capacity higher than 16TiB (equivalent to 16.37 TB) will result in an **"too big to be expressed"** error message.

Broadcom MegaRAID 9380-8e

Table 6: BroadcomMegaRAID 9380-8e Interoperability Notes

| | Linux | Windows |
|--|--|--------------|
| Firmware | 24.21.0-0159 | 24.21.0-0159 |
| Driver | 07.723.02.00 | 06.714.18.00 |
| Operating System Support | | |
| Microsoft® Windows | 2019 R1 x64 Server | Supported |
| | 2022 R1 x64 Server | Supported |
| CentOS/RedHat® Enterprise Linux (RHEL) | 8.8 (x86_64) Kernel: 4.18.0-477 | Supported |
| | 9.0 (x86_64) Kernel: 5.14.0-70 | Supported |
| | 9.2 (x86_64) Kernel: 5.14.0-284 | Supported |
| | 9.3 (x86_64) Kernel: 5.14.0-362 | Supported |
| Ubuntu® Server | 20.04 Kernel: 5.4 | Supported |
| | 22.04 Kernel: 5.15 | Supported |
| Debian GNU/Linux | 9.8 Kernel: 4.9 | Not Tested |
| | 10 Kernel: 4.19 | Not Tested |
| | 11 Kernel: 5.10 | Not Tested |
| Oracle Linux (OL) | 7.9 Kernel: UEK r6 | Not Tested |
| FreeBSD® | 13.2 | Not Tested |



Attention: For all HBAs using CentOS/RedHat® Enterprise Linux (RHEL), Ubuntu® Server, or Debian GNU/Linux. If the drives being used exceed 16TiB (equivalent to 16.37 TB) capacity, you must use the Ext4 or XFS file system. Using the Ext3 files system with a drive capacity higher than 16TiB (equivalent to 16.37 TB) will result in an **"too big to be expressed"** error message.

Broadcom 9400-16e, -8i8e, -8e

Table 7: Broadcom9400-16e, -8i8e, -8e Interoperability Notes

| | Linux | Windows |
|--|--|-------------|
| Firmware | 24.00.00.00 | 24.00.00.00 |
| Driver | 43.00.00.00-1 | 2.61.48.00 |
| Operating System Support | | |
| Microsoft® Windows | 2019 R1 x64 Server | Supported |
| | 2022 R1 x64 Server | Supported |
| CentOS/RedHat® Enterprise Linux (RHEL) | 8.8 (x86_64) Kernel: 4.18.0-477 | Supported |
| | 9.0 (x86_64) Kernel: 5.14.0-70 | Supported |
| | 9.2 (x86_64) Kernel: 5.14.0-284 | Supported |
| | 9.3 (x86_64) Kernel: 5.14.0-362 | Supported |
| Ubuntu® Server | 20.04 Kernel: 5.4 | Supported |
| | 22.04 Kernel: 5.15 | Supported |
| Debian GNU/Linux | 9.8 Kernel: 4.9 | Not Tested |
| | 10 Kernel: 4.19 | Supported |
| | 11 Kernel: 5.10 | Supported |
| Oracle Linux (OL) | 7.9 Kernel: UEK r6 | Not Tested |
| FreeBSD® | 13.2 | Not Tested |



Note: To increase the responsiveness of the topology during the event of a cable pull, IOM/ESM reset, or drive pull, use ScrutinyCLI (version 32 or later) to change the `Task Management Reset Type` on the HBA(s) from `Target Reset` to `I_T Nexus Reset`, and change the `DMD` settings on the HBA from 0 to 21 seconds. See https://support-en.westerndigital.com/app/answers/detail/a_id/32058 for more details.



Attention: For all HBAs using CentOS/RedHat® Enterprise Linux (RHEL), Ubuntu® Server, or Debian GNU/Linux. If the drives being used exceed 16TiB (equivalent to 16.37 TB) capacity, you must use the Ext4 or XFS file system. Using the Ext3 files system with a drive capacity higher than 16TiB (equivalent to 16.37 TB) will result in an **"too big to be expressed"** error message.

Broadcom 9405w-16e

Table 8: Broadcom9405w-16e Interoperability Notes

| | Linux | Windows |
|--|--|-------------|
| Firmware | 24.00.00.00 | 24.00.00.00 |
| Driver | 43.00.00.00-1 | 2.61.48.00 |
| Operating System Support | | |
| Microsoft® Windows | 2019 R1 x64 Server | Supported |
| | 2022 R1 x64 Server | Supported |
| CentOS/RedHat® Enterprise Linux (RHEL) | 8.8 (x86_64) Kernel: 4.18.0-477 | Supported |
| | 9.0 (x86_64) Kernel: 5.14.0-70 | Supported |
| | 9.2 (x86_64) Kernel: 5.14.0-284 | Supported |
| | 9.3 (x86_64) Kernel: 5.14.0-362 | Supported |
| Ubuntu® Server | 20.04 Kernel: 5.4 | Supported |
| | 22.04 Kernel: 5.15 | Supported |
| Debian GNU/Linux | 9.8 Kernel: 4.9 | Not Tested |
| | 10 Kernel: 4.19 | Not Tested |
| | 11 Kernel: 5.10 | Not Tested |
| Oracle Linux (OL) | 7.9 Kernel: UEK r6 | Not Tested |
| FreeBSD® | 13.2 | Not Tested |



Note: To increase the responsiveness of the topology during the event of a cable pull, IOM/ESM reset, or drive pull, use ScrutinyCLI (version 32 or later) to change the `Task Management Reset Type` on the HBA(s) from `Target Reset` to `I_T Nexus Reset`, and change the `DMD` settings on the HBA from 0 to 21 seconds. See https://support-en.westerndigital.com/app/answers/detail/a_id/32058 for more details.



Attention: For all HBAs using CentOS/RedHat® Enterprise Linux (RHEL), Ubuntu® Server, or Debian GNU/Linux. If the drives being used exceed 16TiB (equivalent to 16.37 TB) capacity, you must use the Ext4 or XFS file system. Using the Ext3 files system with a drive capacity higher than 16TiB (equivalent to 16.37 TB) will result in an **"too big to be expressed"** error message.

Broadcom MegaRAID 9480-8i8e

Table 9: BroadcomMegaRAID 9480-8i8e Interoperability Notes

| | Linux | Windows |
|--|--|----------------|
| Firmware | 51.23.0-4637 | 51.23.0-4637 |
| Driver | 07.724.02.00-1 | 07.724.02.00-1 |
| Operating System Support | | |
| Microsoft® Windows | 2019 R1 x64 Server | Supported |
| | 2022 R1 x64 Server | Supported |
| CentOS/RedHat® Enterprise Linux (RHEL) | 8.8 (x86_64) Kernel: 4.18.0-477 | Supported |
| | 9.0 (x86_64) Kernel: 5.14.0-70 | Supported |
| | 9.2 (x86_64) Kernel: 5.14.0-284 | Supported |
| | 9.3 (x86_64) Kernel: 5.14.0-362 | Supported |
| Ubuntu® Server | 20.04 Kernel: 5.4 | Supported |
| | 22.04 Kernel: 5.15 | Supported |
| Debian GNU/Linux | 9.8 Kernel: 4.9 | Not Tested |
| | 10 Kernel: 4.19 | Not Tested |
| | 11 Kernel: 5.10 | Not Tested |
| Oracle Linux (OL) | 7.9 Kernel: UEK r6 | Not Tested |
| FreeBSD® | 13.2 | Not Tested |



Attention: For all HBAs using CentOS/RedHat® Enterprise Linux (RHEL), Ubuntu® Server, or Debian GNU/Linux . If the drives being used exceed 16TiB (equivalent to 16.37 TB) capacity, you must use the Ext4 or XFS file system. Using the Ext3 files system with a drive capacity higher than 16TiB (equivalent to 16.37 TB) will result in an **"too big to be expressed"** error message.

Broadcom 9500-8e, -16e

Table 10: Broadcom9500-8e, -16e Interoperability Notes

| | Linux | Windows | FreeBSD |
|--|---------------|--|------------------------|
| Firmware | 31.00.00.00 | 31.00.00.00 | 25.00.00.00 |
| Driver | 50.00.00.00-1 | 2.61.69.00 | 23.00.00.00 |
| Operating System Support | | | |
| Microsoft® Windows | | 2019 R1 x64 Server | Supported |
| | | 2022 R1 x64 Server | Supported |
| CentOS/RedHat® Enterprise Linux (RHEL) | | 8.8 (x86_64) Kernel: 4.18.0-477 | Supported |
| | | 9.0 (x86_64) Kernel: 5.14.0-70 | Supported |
| | | 9.2 (x86_64) Kernel: 5.14.0-284 | Supported |
| | | 9.3 (x86_64) Kernel: 5.14.0-362 | Supported |
| Ubuntu® Server | | 20.04 Kernel: 5.4 | Supported |
| | | 22.04 Kernel: 5.15 | Supported |
| Debian GNU/Linux | | 9.8 Kernel: 4.9 | Not Tested |
| | | 10 Kernel: 4.19 | Not Tested |
| | | 11 Kernel: 5.10 | Not Tested |
| Oracle Linux (OL) | | 7.9 Kernel: UEK r6 | Supported |
| FreeBSD® | | 13.2 | Supported ¹ |



Note: To increase the responsiveness of the topology during the event of a cable pull, IOM/ESM reset, or drive pull, use ScrutinyCLI (version 32 or later) to change the `Task Management Reset Type` on the HBA(s) from `Target Reset` to `I_T Nexus Reset`, and change the `DMD` settings on the HBA from 0 to 21 seconds. See https://support-en.westerndigital.com/app/answers/detail/a_id/32058 for more details.



Attention: For all HBAs using CentOS/RedHat® Enterprise Linux (RHEL), Ubuntu® Server, or Debian GNU/Linux. If the drives being used exceed 16TiB (equivalent to 16.37 TB) capacity, you must use the Ext4 or XFS file system. Using the Ext3 files system with a drive capacity higher than 16TiB (equivalent to 16.37 TB) will result in an **"too big to be expressed"** error message.

1. WDDCS tool and sg_scan tool will not work in FreeBSD. Camcontrol tool, which has limited functionality, can be used.

Broadcom MegaRAID 9580-8i8e

Table 11: BroadcomMegaRAID 9580-8i8e Interoperability Notes

| | Linux | Windows |
|--|--|--------------|
| Firmware | 52.29.0-5442 | 52.29.0-5442 |
| Driver | 07.729.00.00-1 | 07.729.01.00 |
| Operating System Support | | |
| Microsoft® Windows | 2019 R1 x64 Server | Supported |
| | 2022 R1 x64 Server | Supported |
| CentOS/RedHat® Enterprise Linux (RHEL) | 8.8 (x86_64) Kernel: 4.18.0-477 | Supported |
| | 9.0 (x86_64) Kernel: 5.14.0-70 | Supported |
| | 9.2 (x86_64) Kernel: 5.14.0-284 | Supported |
| | 9.3 (x86_64) Kernel: 5.14.0-362 | Supported |
| Ubuntu® Server | 20.04 Kernel: 5.4 | Supported |
| | 22.04 Kernel: 5.15 | Supported |
| Debian GNU/Linux | 9.8 Kernel: 4.9 | Not Tested |
| | 10 Kernel: 4.19 | Not Tested |
| | 11 Kernel: 5.10 | Not Tested |
| Oracle Linux (OL) | 7.9 Kernel: UEK r6 | Not Tested |
| FreeBSD® | 13.2 | Not Tested |



Attention: For all HBAs using CentOS/RedHat® Enterprise Linux (RHEL), Ubuntu® Server, or Debian GNU/Linux . If the drives being used exceed 16TiB (equivalent to 16.37 TB) capacity, you must use the Ext4 or XFS file system. Using the Ext3 files system with a drive capacity higher than 16TiB (equivalent to 16.37 TB) will result in an **"too big to be expressed"** error message.

Broadcom 9600-16e

Table 12: Broadcom9600-16e Interoperability Notes

| | Linux | Windows |
|--|--|---------------------|
| Firmware | 8.9.1.0-00000-00002 | 8.9.1.0-00000-00002 |
| Driver | 8.9.1.0.0 | 8.09.06.00 |
| Operating System Support | | |
| Microsoft® Windows | 2019 R1 x64 Server | Supported |
| | 2022 R1 x64 Server | Supported |
| CentOS/RedHat® Enterprise Linux (RHEL) | 8.8 (x86_64) Kernel: 4.18.0-477 | Supported |
| | 9.0 (x86_64) Kernel: 5.14.0-70 | Supported |
| | 9.2 (x86_64) Kernel: 5.14.0-284 | Supported |
| | 9.3 (x86_64) Kernel: 5.14.0-362 | Supported |
| Ubuntu® Server | 20.04 Kernel: 5.4 | Supported |
| | 22.04 Kernel: 5.15 | Supported |
| Debian GNU/Linux | 9.8 Kernel: 4.9 | Not Tested |
| | 10 Kernel: 4.19 | Not Tested |
| | 11 Kernel: 5.10 | Not Tested |
| Oracle Linux (OL) | 7.9 Kernel: UEK r6 | Not Tested |
| FreeBSD® | 13.2 | Not Tested |



Attention: For all HBAs using CentOS/RedHat® Enterprise Linux (RHEL), Ubuntu® Server, or Debian GNU/Linux . If the drives being used exceed 16TiB (equivalent to 16.37 TB) capacity, you must use the Ext4 or XFS file system. Using the Ext3 files system with a drive capacity higher than 16TiB (equivalent to 16.37 TB) will result in an **"too big to be expressed"** error message.

Broadcom 9600w-16e

Table 13: Broadcom9600w-16e Interoperability Notes

| | Linux | Windows |
|--|--|---------------------|
| Firmware | 8.9.1.0-00000-00002 | 8.9.1.0-00000-00002 |
| Driver | 8.9.1.0.0 | 8.09.06.00 |
| Operating System Support | | |
| Microsoft® Windows | 2019 R1 x64 Server | Supported |
| | 2022 R1 x64 Server | Supported |
| CentOS/RedHat® Enterprise Linux (RHEL) | 8.8 (x86_64) Kernel: 4.18.0-477 | Supported |
| | 9.0 (x86_64) Kernel: 5.14.0-70 | Supported |
| | 9.2 (x86_64) Kernel: 5.14.0-284 | Supported |
| | 9.3 (x86_64) Kernel: 5.14.0-362 | Supported |
| Ubuntu® Server | 20.04 Kernel: 5.4 | Supported |
| | 22.04 Kernel: 5.15 | Supported |
| Debian GNU/Linux | 9.8 Kernel: 4.9 | Not Tested |
| | 10 Kernel: 4.19 | Not Tested |
| | 11 Kernel: 5.10 | Not Tested |
| Oracle Linux (OL) | 7.9 Kernel: UEK r6 | Not Tested |
| FreeBSD® | 13.2 | Not Tested |



Attention: For all HBAs using CentOS/RedHat® Enterprise Linux (RHEL), Ubuntu® Server, or Debian GNU/Linux . If the drives being used exceed 16TiB (equivalent to 16.37 TB) capacity, you must use the Ext4 or XFS file system. Using the Ext3 files system with a drive capacity higher than 16TiB (equivalent to 16.37 TB) will result in an **"too big to be expressed"** error message.

Oracle 9300-8e

Table 14: Oracle 9300-8e Interoperability Notes

| | Linux | Windows |
|--|--|------------|
| Firmware | 16.00.08.00 | N/A |
| Driver | 39.100.00.00 | N/A |
| Operating System Support | | |
| Microsoft® Windows | 2019 R1 x64 Server | Not Tested |
| | 2022 R1 x64 Server | Not Tested |
| CentOS/RedHat® Enterprise Linux (RHEL) | 8.8 (x86_64) Kernel: 4.18.0-477 | Supported |
| | 9.0 (x86_64) Kernel: 5.14.0-70 | Supported |
| | 9.2 (x86_64) Kernel: 5.14.0-284 | Supported |
| | 9.3 (x86_64) Kernel: 5.14.0-362 | Supported |
| Ubuntu® Server | 20.04 Kernel: 5.4 | Supported |
| | 22.04 Kernel: 5.15 | Supported |
| Debian GNU/Linux | 9.8 Kernel: 4.9 | Not Tested |
| | 10 Kernel: 4.19 | Not Tested |
| | 11 Kernel: 5.10 | Not Tested |
| Oracle Linux (OL) | 7.9 Kernel: UEK r6 | Supported |
| FreeBSD® | 13.2 | Not Tested |



Attention: For all HBAs using CentOS/RedHat® Enterprise Linux (RHEL), Ubuntu® Server, or Debian GNU/Linux. If the drives being used exceed 16TiB (equivalent to 16.37 TB) capacity, you must use the Ext4 or XFS file system. Using the Ext3 files system with a drive capacity higher than 16TiB (equivalent to 16.37 TB) will result in an **"too big to be expressed"** error message.

1.2 Cable Compatibility

Active (Optical) Cables

Active cables can be used for both direct (host-to-enclosure) and daisy-chain (enclosure-to-enclosure) connections.



Important: Active Optical SAS cable support is limited to Broadcom 9300-, 9302-, 9305-, 9400-, 9500-, and 9600-series HBAs.



Note: MegaRAID adapters do not support the use of active SAS cables. If your configuration requires the use of MegaRAID adapters, passive cables must be used.

Table 15: Approved Active Optical HD Mini-SAS to HD Mini-SAS Cables

| Length | Manufacturer | Vendor Part Number |
|--------|------------------------------|-----------------------------|
| 2m | JPC Connectivity (Jess-Link) | P5388FC3002M-1 ² |
| 3m | Amphenol ICC (FCI) | FOHHB23P00003 ³ |
| | JPC Connectivity (Jess-Link) | P5388FC3003M-1 |
| | Molex | 106415-2103 |
| 4m | Amphenol ICC (FCI) | FOHHB23P00004 |
| | JPC Connectivity (Jess-Link) | P5388FC3004M-1 |
| | JPC Connectivity (Jess-Link) | P5388FC3004M-3 |
| 5m | Amphenol ICC (FCI) | FOHHB23P00005 |
| | Molex | 106415-2105 |
| 6m | Amphenol ICC (FCI) | FOHHB23P00006 |
| | JPC Connectivity (Jess-Link) | P5388FC3006M-1 |
| 10m | Molex | 106415-2110 |

2. Listed JPC P5388FC300xxx cables are compatible, beginning with firmware version 4008-020 and later.

3. Listed FOHHB23P00xxx cables are compatible, beginning with firmware version 2052-020 and later.

Passive (Copper) Cables

Passive cables should only be used for direct (host-to-enclosure) connections.

Table 16: Approved Passive HD Mini-SAS to HD Mini-SAS Cables

| Length | Manufacturer | Vendor Part Number |
|--------|---------------------------|--------------------|
| 1m | Amphenol ICC (FCI) | 10112041-2010LF |
| 2m | Amphenol ICC (FCI) | 601760006 |
| | | 10117949-2020LF |
| | | 10112041-2020LF |
| | CS Electronics | 12G-HD-4444/2M |
| | Data Storage Cables (DSC) | C5555-2M |
| | Molex | 1110751002 |
| 3m | Amphenol ICC (FCI) | C5555-2M |
| | | 601760008 |
| | | 10117949-4030LF |
| | 10112041-2030LF | |
| | CS Electronics | 12G-HD-4444/3M |
| Molex | 1110751003 | |

1.3 HDD Compatibility

Ultrastar DC HC310 CMR, 6TB HDD with 3.5" Drive Carrier

Table 17: DC HC310 Part / Model Numbers

| Sector Size | SATA | | SAS | | |
|-------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| | SE | TCG | SE | TCG | TCG-FIPS |
| 512e | 1EX1189 / HUS726T6TAL- E604 | 1EX1188 / HUS726T6TAL- E601 | 1EX1185 / HUS726T6TAL- 5204 | 1EX1184 / HUS726T6TAL- 5201 | 1EX1853 / HUS726T6TAL- 5205 |
| 4Kn | 1EX1187 / HUS726T6TAL- N604 | 1EX1186 / HUS726T6TAL- N601 | 1EX1183 / HUS726T6TAL- 4204 | 1EX1182 / HUS726T6TAL- 4201 | 1EX1852 / HUS726T6TAL- 4205 |

Ultrastar DC HC320 CMR, 8TB HDD with 3.5" Drive Carrier

Table 18: DC HC320 Part / Model Numbers

| Sector Size | SATA | | | SAS | | |
|-------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| | SE | SED | TCG | SE | TCG | TCG-FIPS |
| 512e | 1EX1227 / HUS728T8TAL- E604 | 1EX1226 / HUS728T8TAL- E601 | | 1EX1223 / HUS728T8TAL- 5204 | 1EX1222 / HUS728T8TAL- 5201 | 1EX1343 / HUS728T8TAL- 5205 |
| 4Kn | 1EX1225 / HUS728T8TAL- N604 | | 1EX1224 / HUS728T8TAL- N601 | 1EX1221 / HUS728T8TAL- 4204 | 1EX1220 / HUS728T8TAL- 4201 | 1EX1342 / HUS728T8TAL- 4205 |

Ultrastar DC HC330 CMR, 10TB HDD with 3.5" Drive Carrier

Table 19: DC HC330 Part / Model Numbers

| Sector Size | SATA | | SAS | | |
|-------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| | SE | SED | SE | TCG | TCG-FIPS |
| 512e | 1EX2440 / WUS721010AL- E604 | 1EX2441 / WUS721010AL- E601 | 1EX2435 / WUS721010AL- 5204 | 1EX2436 / WUS721010AL- 5201 | 1EX2437 / WUS721010AL- 5205 |
| 4Kn | 1EX2438 / WUS721010AL- N604 | 1EX2439 / WUS721010AL- N601 | 1EX2432 / WUS721010AL- 4204 | 1EX2433 / WUS721010AL- 4201 | 1EX2434 / WUS721010AL- 4205 |

Ultrastar DC HC510 CMR, 8TB HDD with 3.5" Drive Carrier

Table 20: DC HC510 Part / Model Numbers

| Sector Size | SAS |
|-------------|-----------------------------------|
| | ISE |
| 512e | 1EX0392 / HUH721008AL- 5200 |

Ultrastar DC HC510 CMR, 10TB HDD with 3.5" Drive Carrier

Table 21: DC HC510 Part / Model Numbers

| Sector Size | SATA | | | SAS | | | |
|-------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| | SE | ISE | SED | SE | ISE | TCG | TCG-FIPS |
| 512e | 1EX0499 / HUH721010AL- E604 | 1EX0497 / HUH721010AL- E600 | 1EX0498 / HUH721010AL- E601 | 1EX0487 / HUH721010AL- 5204 | 1EX0485 / HUH721010AL- 5200 | 1EX0486 / HUH721010AL- 5201 | 1EX1341 / HUH721010AL- 5205 |
| 4Kn | 1EX0496 / HUH721010AL- N604 | 1EX0494 / HUH721010AL- N600 | 1EX0495 / HUH721010AL- N601 | 1EX0484 / HUH721010AL- 4204 | 1EX0482 / HUH721010AL- 4200 | 1EX0483 / HUH721010AL- 4201 | 1EX1340 / HUH721010AL- 4205 |

Ultrastar DC HC520 CMR, 12TB HDD with 3.5" Drive Carrier

Table 22: DC HC520 Part / Model Numbers

| Sector Size | SATA | | | SAS | | | |
|-------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| | SE | ISE | SED | SE | ISE | TCG | TCG-FIPS |
| 512e | 1EX1015 / HUH721212AL- E604 | 1EX1013 / HUH721212AL- E600 | 1EX1014 / HUH721212AL- E601 | 1EX1009 / HUH721212AL- 5204 | 1EX1007 / HUH721212AL- 5200 | 1EX1008 / HUH721212AL- 5201 | 1EX1338 / HUH721212AL- 5205 |
| 4Kn | 1EX1012 / HUH721212AL- N604 | 1EX1010 / HUH721212AL- N600 | 1EX1011 / HUH721212AL- N601 | 1EX1006 / HUH721212AL- 4204 | 1EX1004 / HUH721212AL- 4200 | 1EX1005 / HUH721212AL- 4201 | 1EX1339 / HUH721212AL- 4205 |

Ultrastar DC HC530 CMR, 14TB HDD with 3.5" Drive Carrier



Attention: Lower performance observed for multiple (2, 4, and 8) write streams when using I/O Queue Depths of less than 4 on Ultrastar DC HC530 14TB SAS drives.

Table 23: DC HC530 Part / Model Numbers

| Sector Size | SATA | | SAS | | | |
|-------------|---|------------------------------------|---|-----------------------------------|------------------------------------|-----------------------------------|
| | SE | SED | SE | ISE | TCG | TCG-FIPS |
| 512e | 1EX1793* / WUH721414AL- E604 1EX3046 / WUH721814AL- E6L4 | 1EX1794* / WUH721414AL- E6L1 | 1EX1791* / WUH721414AL- 5204 1EX3045 / WUH721814AL-5204 | 1EX1583 / WUH721414AL- 5200 | 1EX1792* / WUH721414AL- 5201 | 1EX1855 / WUH721414AL- 5205 |
| 4Kn | 1EX1790* / WUH721414AL- N604 | | 1EX1788* / WUH721414AL- 4204 | | 1EX1789* / WUH721414AL- 4201 | 1EX1854 / WUH721414AL- 4205 |

* This part number is no longer available.

Ultrastar DC HC550 CMR, 16TB HDD with 3.5" Drive Carrier

Table 24: DC HC550 Part / Model Numbers

| Sector Size | SATA | | SAS | | |
|-------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| | SE | SED | SE | TCG | TCG-FIPS |
| 512e | 1EX2476 / WUH721816AL- E604 | 1EX2477 / WUH721816AL- E601 | 1EX2473 / WUH721816AL- 5204 | 1EX2474 / WUH721816AL- 5201 | 1EX2475 / WUH721816AL- 5205 |

Ultrastar DC HC550 CMR, 18TB HDD with 3.5" Drive Carrier

Table 25: DC HC550 Part / Model Numbers

| Sector Size | SATA | | SAS | | |
|-------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| | SE | SED | SE | TCG | TCG-FIPS |
| 512e | 1EX2481 / WUH721818AL- E604 | 1EX2482 / WUH721818AL- E601 | 1EX2478 / WUH721818AL- 5204 | 1EX2479 / WUH721818AL- 5201 | 1EX2480 / WUH721818AL- 5205 |

Ultrastar DC HC555 CMR, 12TB HDD with 3.5" Drive Carrier

Table 26: DC HC555 Part / Model Numbers

| Sector Size | SATA | | SAS | |
|-------------|-----------------------------------|-----|-----------------------------------|-----------------------------------|
| | SE | SED | SE | TCG |
| 512e | 1EX3306 / WUH722012CL- E604 | | 1EX3305 / WUH722012CL- 5204 | 1EX3307 / WUH722012CL- 5201 |

Ultrastar DC HC555 CMR, 14TB HDD with 3.5" Drive Carrier

Table 27: DC HC555 Part / Model Numbers

| Sector Size | SATA | | SAS | |
|-------------|-----------------------------------|-----|-------------------------------|-------------------------------|
| | SE | SED | SE | TCG |
| 512e | 1EX3309 / WUH722014CL- E604 | | 1EX3308 / WUH722014CL-5204 | 1EX3310 / WUH722014CL-5201 |

Ultrastar DC HC555 CMR, 16TB HDD with 3.5" Drive Carrier

Table 28: DC HC555 Part / Model Numbers

| Sector Size | SATA | | SAS | |
|-------------|-----------------------------------|-----|-------------------------------|-------------------------------|
| | SE | SED | SE | TCG |
| 512e | 1EX3312 / WUH722016CL- E604 | | 1EX3311 / WUH722016CL-5204 | 1EX3313 / WUH722016CL-5201 |

Ultrastar DC HC555 CMR, 18TB HDD with 3.5" Drive Carrier

Table 29: DC HC555 Part / Model Numbers

| Sector Size | SATA | | SAS | |
|-------------|-------------------------------|-----|-------------------------------|-------------------------------|
| | SE | SED | SE | TCG |
| 512e | 1EX3315 / WUH722018CL-E604 | | 1EX3314 / WUH722018CL-5204 | 1EX3316 / WUH722018CL-5201 |

Ultrastar DC HC555 CMR, 20TB HDD with 3.5" Drive Carrier

Table 30: DC HC555 Part / Model Numbers

| Sector Size | SATA | | SAS | |
|-------------|-------------------------------|-----|-------------------------------|-------------------------------|
| | SE | SED | SE | TCG |
| 512e | 1EX3318 / WUH722020CL-E604 | | 1EX3317 / WUH722020CL-5204 | 1EX3319 / WUH722020CL-5201 |

Ultrastar DC HC560 CMR, 20TB HDD with 3.5" Drive Carrier

Table 31: DC HC560 Part / Model Numbers

| Sector Size | SATA | | SAS | |
|-------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| | SE | SED | SE | TCG |
| 512e | 1EX2909 / WUH722020BL- E604 | 1EX2910 / WUH722020BL- E601 | 1EX2906 / WUH722020BL- 5204 | 1EX2907 / WUH722020BL- 5201 |

Ultrastar DC HC570 CMR, 22TB HDD with 3.5" Drive Carrier

Table 32: DC HC570 Part / Model Numbers

| Sector Size | SATA | | SAS | |
|-------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| | SE | SED | SE | TCG |
| 512e | 1EX2966 / WUH722222AL- E604 | 1EX2967 / WUH722222AL- E601 | 1EX2963 / WUH722222AL- 5204 | 1EX2964 / WUH722222AL- 5201 |

Ultrastar DC HC580 CMR, 22TB HDD with 3.5" Drive Carrier

Table 33: DC HC580 Part / Model Numbers

| Sector Size | SATA | SAS |
|-------------|----------------------------|----------------------------|
| | SE | SE |
| 512e | 1EX3169 / WUH722422AL-5201 | 1EX3168 / WUH722424AL-5201 |

| Sector Size | SATA | | SAS | |
|-------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| | SE | SED | SE | TCG |
| 512e | 1EX2966 / WUH722222AL- E604 | 1EX2967 / WUH722222AL- E601 | 1EX2963 / WUH722222AL- 5204 | 1EX2964 / WUH722222AL- 5201 |

Ultrastar DC HC580 CMR, 24TB HDD with 3.5" Drive Carrier

Table 35: DC HC580 Part / Model Numbers

| Sector Size | SATA | SAS | |
|-------------|-------------------------------|------------------------------|------------------------------|
| | SE | SE | TCG |
| 512e | 1EX3171 / WUH722424AL-E6L4 | 1EX3170 / WUH722424AL5204 | |
| 4Kn | | | 1EX3230 / WUH722424AL5201 |

Ultrastar DC HC650 SMR, 20TB HDD with 3.5" Drive Carrier

Table 36: DC HC650 Part / Model Numbers

| Sector Size | SATA | | SAS | |
|-------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| | SE | SED | SE | TCG |
| 4Kn | 1EX2719 / WSH722020AL- N604 | 1EX2720 / WSH722020AL- N601 | 1EX2716 / WSH722020AL- 4204 | 1EX2717 / WSH722020AL- 4201 |

Ultrastar DC HC650 drives are only compatible with the OSs and HBAs listed in the following table:

| OS | Kernel | HBA | HBA FW | HBA Driver |
|--------------|-------------------|---------|-------------|-------------|
| Ubuntu 18.04 | 4.15.0-76-generic | 9300-8e | 22.00.00.00 | 43.00.00.00 |

| OS | Kernel | HBA | HBA FW | HBA Driver |
|---------------------------------------|------------------|-----------|-------------|-------------|
| | | 9300-16e | 30.00.00.00 | 49.00.00.00 |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9405-16e | | |
| | | 9500-8e | | |
| | | 9500-16e | | |
| Ubuntu 20.04 | 5.4.0-47-generic | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9405-16e | | |
| | | 9500-8e | | |
| Ubuntu 22.04 | 5.15 | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9400-16e | | |
| | | 9500-8e | | |
| CentOS/RedHat Enterprise Linux (RHEL) | 5.14.0.70.13.1 | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9400-16e | | |
| | | 9500-8e | | |
| | | 9500-16e | 30.00.00.00 | 49.00.00.00 |

Ultrastar DC HC590 CMR, 24TB HDD with 3.5" Drive Carrier

Table 38: DC HC590 Part / Model Numbers

| Sector Size | SATA | SAS | |
|-------------|---------------------------|---------------------------|---------------------------|
| | SE | SE | TCG |
| 512e | 1EX3268 / WUH722624ALN604 | 1EX3267 / WUH722624AL4204 | 1EX3327 / WUH722624AL4201 |

Ultrastar DC HC590 drives are only compatible with the OSs and HBAs listed in the following table:

| OS | Kernel | HBA | HBA FW | HBA Driver |
|---------------------------------------|-------------------|-----------|-------------|-------------|
| Ubuntu 18.04 | 4.15.0-76-generic | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9405-16e | 28.00.00.00 | 47.00.00.00 |
| | | 9500-8e | | |
| | | 9500-16e | | |
| | | 9600-16e | 8.8.1.0.0 | 8.8.1.0 |
| | | 9600w-16e | | |
| Ubuntu 20.04 | 5.4.0-47-generic | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9405-16e | 31.00.00.00 | 50.00.00.00 |
| | | 9500-8e | | |
| | | 9500-16e | | |
| | | 9600-16e | 8.9.1.0 | 8.9.1.0.0 |
| | | 9600w-16e | | |
| Ubuntu 22.04 | 5.15 | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9400-16e | 31.00.00.00 | 50.00.00.00 |
| | | 9500-8e | | |
| | | 9500-16e | | |
| | | 9600-16e | 8.9.1.0 | 8.9.1.0.0 |
| | | 9600w-16e | | |
| CentOS/RedHat Enterprise Linux (RHEL) | 5.14.0.70.13.1 | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9400-16e | 31.00.00.00 | 50.00.00.00 |
| | | 9500-8e | | |
| | | 9500-16e | | |
| | | 9600-16e | 8.9.1.0 | 8.9.1.0.0 |

| OS | Kernel | HBA | HBA FW | HBA Driver |
|----|--------|-----------|--------|------------|
| | | 9600w-16e | | |

Ultrastar DC HC590 CMR, 26TB HDD with 3.5" Drive Carrier

Table 40: DC HC590 Part / Model Numbers

| Sector Size | SATA | SAS | |
|-------------|---------------------------|---------------------------|---------------------------|
| | SE | SE | TCG |
| 512e | 1EX3270 / WUH722626ALN604 | 1EX3269 / WUH722626AL4204 | 1EX3328 / WUH722626AL4201 |

Ultrastar DC HC590 drives are only compatible with the OSs and HBAs listed in the following table:

| OS | Kernel | HBA | HBA FW | HBA Driver |
|--------------|-------------------|-----------|-------------|-------------|
| Ubuntu 18.04 | 4.15.0-76-generic | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9405-16e | 28.00.00.00 | 47.00.00.00 |
| | | 9500-8e | | |
| | | 9500-16e | | |
| | | 9600-16e | 8.8.1.0.0 | 8.8.1.0 |
| | | 9600w-16e | | |
| Ubuntu 20.04 | 5.4.0-47-generic | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9405-16e | 31.00.00.00 | 50.00.00.00 |
| | | 9500-8e | | |
| | | 9500-16e | | |
| | | 9600-16e | 8.9.1.0 | 8.9.1.0.0 |
| | | 9600w-16e | | |
| Ubuntu 22.04 | 5.15 | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9400-16e | 31.00.00.00 | 50.00.00.00 |
| | | 9500-8e | | |
| | | 9500-16e | | |

| OS | Kernel | HBA | HBA FW | HBA Driver |
|---------------------------------------|----------------|-----------|-------------|-------------|
| CentOS/RedHat Enterprise Linux (RHEL) | 5.14.0.70.13.1 | 9600-16e | 8.9.1.0 | 8.9.1.0.0 |
| | | 9600w-16e | | |
| | | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9400-16e | 31.00.00.00 | 50.00.00.00 |
| | | 9500-8e | | |
| | | 9500-16e | 8.9.1.0 | 8.9.1.0.0 |
| | | 9600-16e | | |
| 9600w-16e | | | | |

Ultrastar DC HC670 SMR, 26TB HDD with 3.5" Drive Carrier

Table 42: DC HC670 Part / Model Numbers

| Sector Size | SATA | | SAS | |
|-------------|---------------------------|---------------------------|---------------------------|---------------------------|
| | SE | SED | SE | TCG |
| 4Kn | 1EX3013 / WSH722626ALN604 | 1EX3014 / WSH722626ALN601 | 1EX3010 / WSH722626AL4204 | 1EX3011 / WSH722626AL4201 |

Ultrastar DC HC670 drives are only compatible with the OSs and HBAs listed in the following table:

| OS | Kernel | HBA | HBA FW | HBA Driver |
|--------------|-------------------|-----------|-------------|-------------|
| Ubuntu 18.04 | 4.15.0-76-generic | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9405-16e | 28.00.00.00 | 47.00.00.00 |
| | | 9500-8e | | |
| | | 9500-16e | 8.8.1.0.0 | 8.8.1.0 |
| | | 9600-16e | | |
| | | 9600w-16e | | |
| Ubuntu 20.04 | 5.4.0-47-generic | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9405-16e | 31.00.00.00 | 50.00.00.00 |
| | | 9500-8e | | |

| OS | Kernel | HBA | HBA FW | HBA Driver |
|---------------------------------------|----------------|-----------|-------------|-------------|
| | | 9500-16e | | |
| | | 9600-16e | 8.9.1.0 | 8.9.1.0.0 |
| | | 9600w-16e | | |
| Ubuntu 22.04 | 5.15 | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9400-16e | 31.00.00.00 | 50.00.00.00 |
| | | 9500-8e | | |
| | | 9500-16e | | |
| | | 9600-16e | 8.9.1.0 | 8.9.1.0.0 |
| | | 9600w-16e | | |
| CentOS/RedHat Enterprise Linux (RHEL) | 5.14.0.70.13.1 | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9400-16e | 31.00.00.00 | 50.00.00.00 |
| | | 9500-8e | | |
| | | 9500-16e | | |
| | | 9600-16e | 8.9.1.0 | 8.9.1.0.0 |
| | | 9600w-16e | | |

Ultrastar DC HC680 SMR, 26TB HDD with 3.5" Drive Carrier

Table 44: DC HC680 Part / Model Numbers

| Sector Size | SATA |
|-------------|------------------------------|
| | SE |
| 4Kn | 1EX3172 / WSH722860ALN6L4 |

Ultrastar DC HC680 drives are only compatible with the OSs and HBAs listed in the following table:

| OS | Kernel | HBA | HBA FW | HBA Driver |
|--------------|-------------------|-----------|-------------|-------------|
| Ubuntu 18.04 | 4.15.0-76-generic | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9405-16e | 47.00.00.00 | |

| OS | Kernel | HBA | HBA FW | HBA Driver |
|---------------------------------------|------------------|-----------|-------------|-------------|
| | | 9500-8e | 28.00.00.00 | 8.8.1.0 |
| | | 9500-16e | | |
| | | 9600-16e | 8.8.1.0.0 | |
| | | 9600w-16e | | |
| Ubuntu 20.04 | 5.4.0-47-generic | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9405-16e | 31.00.00.00 | 50.00.00.00 |
| | | 9500-8e | | |
| | | 9500-16e | | |
| | | 9600-16e | 8.9.1.0 | 8.9.1.0.0 |
| 9600w-16e | | | | |
| Ubuntu 22.04 | 5.15 | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9400-16e | 31.00.00.00 | 50.00.00.00 |
| | | 9500-8e | | |
| | | 9500-16e | | |
| | | 9600-16e | 8.9.1.0 | 8.9.1.0.0 |
| 9600w-16e | | | | |
| CentOS/RedHat Enterprise Linux (RHEL) | 5.14.0.70.13.1 | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9400-16e | 31.00.00.00 | 50.00.00.00 |
| | | 9500-8e | | |
| | | 9500-16e | | |
| | | 9600-16e | 8.9.1.0 | 8.9.1.0.0 |
| 9600w-16e | | | | |

Ultrastar DC HC680 SMR, **27TB** HDD with 3.5" Drive Carrier

Table 46: DC HC680 Part / Model Numbers

| Sector Size | SATA |
|-------------|------------------------------|
| | SE |
| 4Kn | 1EX3173 / WSH722870ALN6L4 |

Ultrastar DC HC680 drives are only compatible with the OSs and HBAs listed in the following table:

| OS | Kernel | HBA | HBA FW | HBA Driver |
|---------------------------------------|-------------------|-----------|-------------|-------------|
| Ubuntu 18.04 | 4.15.0-76-generic | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9405-16e | 28.00.00.00 | 47.00.00.00 |
| | | 9500-8e | | |
| | | 9500-16e | 8.8.1.0.0 | 8.8.1.0 |
| | | 9600-16e | | |
| 9600w-16e | | | | |
| Ubuntu 20.04 | 5.4.0-47-generic | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9405-16e | 31.00.00.00 | 50.00.00.00 |
| | | 9500-8e | | |
| | | 9500-16e | 8.9.1.0 | 8.9.1.0.0 |
| | | 9600-16e | | |
| 9600w-16e | | | | |
| Ubuntu 22.04 | 5.15 | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9400-16e | 31.00.00.00 | 50.00.00.00 |
| | | 9500-8e | | |
| | | 9500-16e | 8.9.1.0 | 8.9.1.0.0 |
| | | 9600-16e | | |
| 9600w-16e | | | | |
| CentOS/RedHat Enterprise Linux (RHEL) | 5.14.0.70.13.1 | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |

| OS | Kernel | HBA | HBA FW | HBA Driver |
|----|--------|-----------|-------------|-------------|
| | | 9400-8e | | |
| | | 9400-16e | | |
| | | 9500-8e | 31.00.00.00 | 50.00.00.00 |
| | | 9500-16e | | |
| | | 9600-16e | 8.9.1.0 | 8.9.1.0.0 |
| | | 9600w-16e | | |

Ultrastar DC HC680 SMR, 28TB HDD with 3.5" Drive Carrier

Table 48: DC HC680 Part / Model Numbers

| Sector Size | SATA |
|-------------|------------------------------|
| | SE |
| 4Kn | 1EX3174 / WSH722880ALN6L4 |

Ultrastar DC HC680 drives are only compatible with the OSs and HBAs listed in the following table:

| OS | Kernel | HBA | HBA FW | HBA Driver |
|--------------|-------------------|-----------|-------------|-------------|
| Ubuntu 18.04 | 4.15.0-76-generic | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9405-16e | 28.00.00.00 | 47.00.00.00 |
| | | 9500-8e | | |
| | | 9500-16e | 8.8.1.0.0 | 8.8.1.0 |
| | | 9600-16e | | |
| 9600w-16e | | | | |
| Ubuntu 20.04 | 5.4.0-47-generic | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9405-16e | 31.00.00.00 | 50.00.00.00 |
| | | 9500-8e | | |
| | | 9500-16e | 8.9.1.0 | 8.9.1.0.0 |
| | | 9600-16e | | |
| 9600w-16e | | | | |
| Ubuntu 22.04 | 5.15 | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |

| OS | Kernel | HBA | HBA FW | HBA Driver |
|---------------------------------------|----------------|-----------|-------------|-------------|
| | | 9300-4i4e | | 50.00.00.00 |
| | | 9400-8e | | |
| | | 9400-16e | | |
| | | 9500-8e | 31.00.00.00 | |
| | | 9500-16e | | |
| | | 9600-16e | 8.9.1.0 | |
| | | 9600w-16e | | |
| CentOS/RedHat Enterprise Linux (RHEL) | 5.14.0.70.13.1 | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9400-16e | 31.00.00.00 | |
| | | 9500-8e | | |
| | | 9500-16e | | |
| | | 9600-16e | 8.9.1.0 | |
| 9600w-16e | | | | |

Ultrastar DC HC690 SMR, 30TB HDD with 3.5" Drive Carrier

Table 50: DC HC690 Part / Model Numbers

| Sector Size | SATA | SAS | |
|-------------|---------------------------|---------------------------|---------------------------|
| | SE | SE | TCG |
| 4Kn | 1EX3272 / WSH723200ALN604 | 1EX3271 / WSH723200AL4204 | 1EX3329 / WSH723200AL4201 |

Ultrastar DC HC690 drives are only compatible with the OSs and HBAs listed in the following table:

| OS | Kernel | HBA | HBA FW | HBA Driver |
|--------------|-------------------|-----------|-------------|-------------|
| Ubuntu 18.04 | 4.15.0-76-generic | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9405-16e | 28.00.00.00 | |
| | | 9500-8e | | |
| | | 9500-16e | | |
| | | 9600-16e | 8.8.1.0 | |
| 9600w-16e | | | | |
| Ubuntu 20.04 | 5.4.0-47-generic | 9300-8e | 22.00.00.00 | 43.00.00.00 |

| OS | Kernel | HBA | HBA FW | HBA Driver |
|---------------------------------------|----------------|-----------|-------------|-------------|
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9405-16e | | |
| | | 9500-8e | 31.00.00.00 | 50.00.00.00 |
| | | 9500-16e | | |
| | | 9600-16e | 8.9.1.0 | 8.9.1.0.0 |
| | | 9600w-16e | | |
| Ubuntu 22.04 | 5.15 | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9400-16e | 31.00.00.00 | 50.00.00.00 |
| | | 9500-8e | | |
| | | 9500-16e | 8.9.1.0 | 8.9.1.0.0 |
| | | 9600-16e | | |
| 9600w-16e | | | | |
| CentOS/RedHat Enterprise Linux (RHEL) | 5.14.0.70.13.1 | 9300-8e | 22.00.00.00 | 43.00.00.00 |
| | | 9300-16e | | |
| | | 9300-4i4e | | |
| | | 9400-8e | | |
| | | 9400-16e | 31.00.00.00 | 50.00.00.00 |
| | | 9500-8e | | |
| | | 9500-16e | 8.9.1.0 | 8.9.1.0.0 |
| | | 9600-16e | | |
| 9600w-16e | | | | |

1.4 Compatible SSDs



Attention: All drives have been tested with version 4011-005 enclosure firmware.

| Device | Volume | Encryption | Drive Firmware | Manufacturer Part Number |
|---------------------------------|--------------|------------|----------------|--------------------------|
| Kioxia SAS PM7-M/V/R Series SSD | Up to 3.84TB | SE | 0101 | KPM7XRUG3T84 |

| Device | Volume | Encryption | Drive Firmware | Manufacturer Part Number |
|-------------------------|--------------|------------|----------------|--------------------------|
| Samsung SAS PM1653A SSD | Up to 3.84TB | SE | GXG3 | MZILG3T8HCLS-00A07 |



Note: Ultrastar Data60 supports third-party device features that are within SAS specification as mandatory. Any third-party drive features that are vendor specific are not guaranteed to function.

1.5 Non-TAA SKUs for Fully Populated Configurations

Table 53: Fully Populated Configurations

| Capacity | Drive Type | Sector Size | SATA | | | SAS | | | |
|----------|------------|-------------|----------|----------|---------|----------|---------|----------|----------|
| | | | SE | SED | ISE | SE | ISE | TCG | TCG-FIPS |
| 1800TB | HC690 | 4Kn | 1ES2746 | | | 1ES2743 | | 1ES2870 | |
| 1560TB | HC590 | 512e | 1ES2751 | | | 1ES2749 | | 1ES2876 | |
| 1440TB | HC590 | 512e | 1ES2757 | | | 1ES2755 | | 1ES2873 | |
| | HC580 | | 1ES2526 | | | | | | |
| 1320TB | HC570 | 512e | 1ES2540 | | | | | | |
| | | | 1ES2522 | | | | | | |
| | | | 1ES2203 | 1ES2204 | | 1ES2063 | | 1ES2198 | |
| 1200TB | HC560 | 512e | 1ES2536 | | | | | | |
| | HC555 | | 1ES2135 | 1ES2136 | | 1ES2143 | | 1ES2144 | |
| 1080TB | HC555 | 512e | 1ES2852 | | | 1ES2850 | | 1ES2856 | |
| | HC550 | | 1ES2843 | | | 1ES2841 | | 1ES2847 | |
| 960TB | HC555 | 512e | 1ES1871 | 1ES1872 | | 1ES1865 | | 1ES1866 | |
| | HC550 | | 1ES2834 | | | 1ES2832 | | 1ES2838 | |
| 840TB | HC550 | 512e | 1ES1881 | 1ES1882 | | 1ES1875 | | 1ES1876 | |
| | | | 1ES2825 | | | 1ES2823 | | 1ES2829 | |
| | | | 1ES2345 | | | 1ES2344 | | | |
| | | | 1ES2347 | | | 1ES2346 | | | |
| | HC530 | 4Kn | 1ES2351 | | | 1ES2350 | | | |
| | | | 1ES1466* | 1ES1467* | | 1ES1464* | | 1ES1465* | 1ES1947* |
| 720TB | HC555 | 512e | 1ES1463* | | | 1ES1461* | | 1ES1462* | |
| | | | 1ES2816 | | | 1ES2814 | | 1ES2820 | |
| | HC520 | 4Kn | 1ES0370 | | 1ES0368 | 1ES0364 | 1ES0362 | 1ES0363 | |
| 600TB | HC330 | 512e | 1ES0367 | | 1ES0365 | 1ES0361 | 1ES0359 | 1ES0360 | |
| | | 4Kn | 1ES1835 | 1ES1834 | | 1ES1827 | | 1ES1822 | |
| 480TB | HC320 | 512e | 1ES1836 | 1ES1837 | | 1ES1824 | | 1ES1825 | |
| | | 4Kn | 1ES1241 | 1ES1240 | | 1ES1237 | | 1ES1236 | |
| 360TB | HC320 | 512e | 1ES1239 | 1ES1238 | | 1ES1235 | | 1ES1234 | |
| | | 4Kn | 1ES1164 | 1ES1163 | | 1ES1160 | | 1ES1159 | |
| 240TB | HC310 | 512e | 1ES1162 | 1ES1161 | | 1ES1158 | | 1ES1157 | |
| | | | | | | 1ES1645 | | 1ES1646 | 1ES1647 |

| Capacity | Drive Type | Sector Size | SATA | | | SAS | | | |
|----------|------------|-------------|------|-----|-----|---------|-----|---------|----------|
| | | | SE | SED | ISE | SE | ISE | TCG | TCG-FIPS |
| | | 4Kn | | | | 1ES1560 | | 1ES1643 | 1ES1644 |

* This part number is no longer available.

1.6 Non-TAA SKUs for Partially Populated Configurations

Table 54: Partially Populated Configurations

| Capacity | Drive Type | Sector Size | SATA | | | SAS | | | |
|----------|------------|-------------|----------|----------|---------|----------|---------|----------|----------|
| | | | SE | SED | ISE | SE | ISE | TCG | TCG-FIPS |
| 720TB | HC690 | 4Kn | 1ES2747 | | | 1ES2744 | | 1ES2871 | |
| 624TB | HC590 | 512e | 1ES2752 | | | 1ES2750 | | 1ES2877 | |
| 576TB | HC590 | 512e | 1ES2758 | | | 1ES2756 | | 1ES2874 | |
| | HC580 | | 1ES2527 | | | | | | |
| 528TB | HC580 | 512e | 1ES2523 | | | | | | |
| | | | 1ES2537 | | | | | | |
| 480TB | HC570 | 512e | 1ES2205 | 1ES2206 | | 1ES2200 | | 1ES2201 | |
| | HC560 | | 1ES2146 | 1ES2147 | | 1ES2148 | | 1ES2149 | |
| 432TB | HC555 | 512e | 1ES2853 | | | 1ES2851 | | 1ES2857 | |
| | HC550 | | 1ES2844 | | | 1ES2842 | | 1ES2848 | |
| 384TB | HC555 | 512e | 1ES1873 | 1ES1874 | | 1ES1868 | | 1ES1869 | |
| | HC550 | | 1ES2835 | | | 1ES2833 | | 1ES2839 | |
| 336TB | HC555 | 512e | 1ES1883 | 1ES1884 | | 1ES1878 | | 1ES1879 | |
| | HC550 | | 1ES2826 | | | 1ES2824 | | 1ES2830 | |
| | HC530 | | 1ES2349 | | | 1ES2348 | | | |
| | HC550 | 1ES2353 | | | 1ES2352 | | | | |
| 288TB | HC555 | 512e | 1ES1473* | 1ES1474* | | 1ES1471* | | 1ES1472* | 1ES1948* |
| | HC550 | | 1ES1470* | | | 1ES1468* | | 1ES1469* | |
| 240TB | HC555 | 512e | 1ES2817 | | | 1ES2815 | | 1ES2821 | |
| | HC520 | | 1ES0400 | | 1ES0398 | 1ES0394 | 1ES0392 | 1ES0393 | |
| 192TB | HC330 | 4Kn | 1ES0397 | | 1ES0395 | 1ES0391 | 1ES0389 | 1ES0390 | |
| | | 512e | 1ES1838 | 1ES1839 | | 1ES1828 | | 1ES1829 | |
| 144TB | HC320 | 4Kn | 1ES1840 | 1ES1841 | | 1ES1831 | | 1ES1832 | |
| | | 512e | 1ES1249 | 1ES1248 | | 1ES1245 | | 1ES1244 | |
| 96TB | HC310 | 4Kn | 1ES1247 | 1ES1246 | | 1ES1243 | | 1ES1242 | |
| | | 512e | 1ES1173 | 1ES1172 | | 1ES1169 | | 1ES1168 | |
| 96TB | HC310 | 4Kn | 1ES1171 | 1ES1170 | | 1ES1167 | | 1ES1166 | |
| | | 512e | | | | 1ES1651 | | 1ES1652 | 1ES1653 |
| | | 4Kn | | | | 1ES1648 | | 1ES1649 | 1ES1650 |

** This part number is no longer available.*

1.7 TAA SKUs for Fully Populated Configurations

Table 55: Fully Populated Configurations

| Capacity | Drive Type | Sector Size | SATA | | | SAS | | | |
|----------|------------|-------------|----------|----------|-----|----------|-----|----------|----------|
| | | | SE | SED | ISE | SE | ISE | TCG | TCG-FIPS |
| 1800TB | HC690 | 4Kn | 1ES2748 | | | 1ES2745 | | 1ES2872 | |
| 1560TB | HC590 | 512e | 1ES2754 | | | 1ES2753 | | 1ES2878 | |
| 1440TB | HC590 | 512e | 1ES2760 | | | 1ES2759 | | 1ES2875 | |
| | HC580 | | 1ES2551 | | | | | | |
| 1320TB | HC580 | 512e | 1ES2549 | | | | | | |
| | HC570 | | 1ES2556 | | | | | | |
| 1200TB | HC560 | 512e | 1ES2223 | 1ES2209 | | 1ES2224 | | 1ES2207 | |
| | HC555 | | 1ES2225 | 1ES2183 | | 1ES2226 | | 1ES2181 | |
| 1080TB | HC555 | 512e | 1ES2855 | | | 1ES2854 | | 1ES2858 | |
| | HC550 | | 1ES2846 | | | 1ES2845 | | 1ES2849 | |
| 960TB | HC555 | 512e | 1ES2227 | 1ES2098 | | 1ES2228 | | 1ES2096 | 1ES2097 |
| | HC550 | | 1ES2837 | | | 1ES2836 | | 1ES2840 | |
| 840TB | HC555 | 512e | 1ES2229 | 1ES2095 | | 1ES2230 | | 1ES2093 | 1ES2094 |
| | HC530 | | 1ES2828 | | | 1ES2827 | | 1ES2831 | |
| 720TB | HC555 | 512e | 1ES2231* | 1ES2092* | | 1ES2232* | | 1ES2090* | 1ES2091* |
| | HC520 | | 1ES2819 | | | 1ES2818 | | 1ES2822 | |
| | | | 1ES2233 | 1ES2127 | | 1ES2234 | | 1ES2124 | 1ES2125 |

* This part number is no longer available.

1.8 Non-TAA SKUs for Scale-Up Modules

Table 56: 12-Pack nTAA Scale-Up Modules

| Capacity | Drive Type | Sector Size | SATA | | | SAS | | | |
|----------|------------|-------------|----------|----------|---------|----------|---------|----------|----------|
| | | | SE | SED | ISE | SE | ISE | TCG | TCG-FIPS |
| 420TB | HC690 | 4Kn | 1EX3260 | | | 1EX3259 | | 1EX3323 | |
| 364TB | HC590 | 512e | 1EX3258 | | | 1EX3257 | | 1EX3322 | |
| 360TB | HC690 | 4Kn | 1EX3266 | | | 1EX3265 | | 1EX3326 | |
| 336TB | HC590 | 512e | 1EX3256 | | | 1EX3255 | | 1EX3321 | |
| 312TB | HC670 | 4Kn | 1EX3008 | 1EX3009 | | 1EX3005 | | 1EX3006 | |
| | HC590 | 512e | 1EX3264 | | | 1EX3263 | | 1EX3325 | |
| 288TB | HC590 | 512e | 1EX3262 | | | 1EX3261 | | 1EX3324 | |
| | HC580 | | 1EX3164 | | | | | | |
| 264TB | HC580 | 512e | 1EX3162 | | | | | | |
| | HC570 | | 1EX2961 | 1EX2962 | | 1EX2958 | | 1EX2959 | |
| 240TB | HC560 | 512e | 1EX2904 | 1EX2905 | | 1EX2901 | | 1EX2902 | |
| | HC555 | | 1EX3303 | | | 1EX3302 | | 1EX3304 | |
| 216TB | HC555 | 512e | 1EX3300 | | | 1EX3299 | | 1EX3301 | |
| | HC550 | | 1EX2491 | 1EX2492 | | 1EX2488 | | 1EX2489 | 1EX2490 |
| | HC550 | 4Kn | | | | 1EX2785 | | | |
| 192TB | HC555 | 512e | 1EX3297 | | | 1EX3296 | | 1EX3298 | |
| | HC550 | | 1EX2486 | 1EX2487 | | 1EX2483 | | 1EX2484 | 1EX2485 |
| 168TB | HC555 | 512e | 1EX3294 | | | 1EX3293 | | 1EX3295 | |
| | HC550 | | 1EX3044 | | | 1EX3043 | | | |
| | HC530 | 4Kn | 1EX1847* | 1EX1848* | | 1EX1845* | | 1EX1846* | |
| 144TB | HC555 | 512e | 1EX3291 | | | 1EX3290 | | 1EX3292 | |
| | HC520 | | 1EX0553 | | 1EX0551 | 1EX0547 | 1EX0545 | 1EX0546 | |
| | HC520 | 4Kn | 1EX0550 | | 1EX0548 | 1EX0544 | 1EX0542 | 1EX0543 | |
| 120TB | HC330 | 512e | 1EX2460 | 1EX2461 | | 1EX2455 | | 1EX2456 | |
| | | 4Kn | 1EX2458 | 1EX2459 | | 1EX2452 | | 1EX2453 | |
| 96TB | HC320 | 512e | 1EX1243 | 1EX1242 | | 1EX1239 | | 1EX1238 | |
| | | 4Kn | 1EX1241 | 1EX1240 | | 1EX1237 | | 1EX1236 | |
| 72TB | HC310 | 512e | 1EX1213 | 1EX1212 | | 1EX1209 | | 1EX1208 | |
| | | 4Kn | 1EX1211 | 1EX1210 | | 1EX1207 | | 1EX1206 | |

| Capacity | Drive Type | Sector Size | SATA | | | SAS | | | |
|----------|------------|-------------|------|-----|-----|---------|-----|---------|----------|
| | | | SE | SED | ISE | SE | ISE | TCG | TCG-FIPS |
| 48TB | HC310 | 512e | | | | 1EX2250 | | 1EX2251 | 1EX2252 |
| | | 4Kn | | | | 1EX2247 | | 1EX2248 | 1EX2249 |

* This part number is no longer available.

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1.10 Points of Contact

For further assistance with a Western Digital product, contact Western Digital Datacenter Platforms technical support. Please be prepared to provide the following information, as applicable: part number (P/N), serial number (S/N), product name and/or model number, software version, and a brief description of the issue.

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<https://portal.wdc.com/s/>

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enterprisesupport@wdc.com

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UK

Telephone: +44 1372 366000

EU Import Representation Contact

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