



# VTrak E5000/EFA5310 SR4.6 Compatibility List

## *Version 1.26*

**Firmware 11.07.0000.57 Release Date: 05/06/2023**

### VTrak E5000 Systems Covered:

- EFA5310 2U/24 , dual controller, 2.5" Drive Bays
- E5320 2U/24 , dual controller, 2.5" Drive Bays
- E5300 2U/12 , dual controller
- E5600 3U/16 , dual controller
- E5800 4U/24 , dual controller

### System Versions Covered:

- VTrak E5000 Firmware– Version 11.07.0000.01 [Jan. 02, 2019]
- VTrak E5000 Firmware- Version 11.07.0000.08 [Jun. 19, 2019]
- VTrak E5000 Firmware– Version 11.07.0000.13 [Nov. 28, 2019]
- VTrak E5000 Firmware- Version 11.07.0000.18 [Apr. 08, 2020]
- VTrak E5000 Firmware- Version 11.07.0000.22 [Mar. 16, 2021]
- VTrak E5000 Firmware- Version 11.07.0000.51 [Mar. 17, 2022]
- VTrak E5000 Firmware- Version 11.07.0000.57 [Jun. 05, 2023]

## VTrak E5000/EFA5310 SR4.6 Compatibility List v1.26

### Document History

Date	Editor	Revision	Comments
08/15/2016	F Londono	1.00	Initial list for VTrak E5x00 Compatibility
08/22/2016	R Brose	1.01	Changed FW Version, updating OS, Switch, hba
8/29/2016	R Brose	1.02	Corrected SFP data, Vmware ESXi, Window Server, Hyper-V, formatting.
8/30/2016	F Londono	1.03	Minor formatting adjustments
11/4/2016	F Londono	1.04	Added Toshiba, HGST and Seagate drives
2/3/2017	F Londono	1.05	Added SATA HDD and SSD
2/14/2017	F Londono	1.06	Updated firmware HGST, added Toshiba 2.5" drive and Seagate SSD
2/24/2017	R. Brose	1.07	Changed FW Version, HD's, Drivers, OS's, switches, sfp's updated for SR1 Release.
4/20/2017	F Londono	1.08	Added Micron 5100 SSD, Samsung 850 EVO, Toshiba SATA
9/11/2017	R.Brose	1.09	Added MAC OS 10.12.6, HE-10 8TB, HGST Part Numbers
01/23/2018	KJ Hsu	1.10	Changed E5000 FW Version to SR3 Added Samsung SSD_850-EVO-Pro-1TB Added (Micron) Crucial SSD_MX300-CT1050MX-1TB Added HGST SATA HUA722010CLA330-1TB Added HGST SAS HUH721212AI5200-12TB Change the Prefect Path to v4.1.0.12 on Windows 2012 R2 and 2008 R2.
04/10/2018	KJ Hsu	1.11	Change the compatibility version Add Toshiba MG07ACA12TE Add Toshiba MG07ACA14TE Add HGST Ultra He12 HUH721212ALE604
06/13/2018	KJ Hsu	1.12	Change title to "VTrak E5000/EFA5310 SR3.1 Compatibility List" Revise FW version and release date to "Firmware 11.06.0000.00 Release Date:06/08/2018"  Revise E5310 to EFA5310 Update OS item "ALUA support with native Microsoft Multipath I/O (MPIO) in Windows Server 2016"  Added Seagate ST12000NM0007 Added Toshiba AL15SEB24EQ Added WDC WD6002FRYZ-01WD5B0
06/25/2018	KJ Hsu	1.13	Added HGST Ultrastar 7K6 SAS HUS726T4TALS204 Added HGST Ultrastar 7K6 SATA HUS726T4TALA6L4
07/31/2018	KJ Hsu	1.13	Added WD HUS728T8TAL5204 Added Toshiba MG06SCA10TE Added Toshiba AL14SXB90EE
22/11/2018	KJ Hsu	1.14	Change to "E5000_SR4.0_Compatibility_List_v1.14" Added HGST Ultrastar 7K6 HUS726T6TAL5204 Added Seagate Enterprise Performance 15K ST900MP0146 Added Seagate Enterprise Performance 10K ST2400MM0129 Added Seagate Enterprise Capacity v5 ST8000NM0075 Added Toshiba Enterprise Performance AL14SEB120N Added HGST 7K6 HUS726T6TAL6L4 Added Seagate SKYHAWK Surveillance ST6000VX0023

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07/12/2018	KJ Hsu	1.14	<p>Added Toshiba Enterprise MG07SCA14TE</p> <p>Added WD Ultrastar DC HC530 WUH721414AL5204</p> <p>Added Crucial MX200 CT1000MX200SSD1</p> <p>Added Samsung Enterprise SSD PM1643 MZILT960HAHQ-00007</p>
18/12/2018	KJ Hsu	1.14	<p>Update the firmware version to 11.07.0000.01</p> <p>Added SAS cable AMPHENOL 601760008</p> <p>Added SAS cable MOLEX 1064152103</p> <p>Added SAS cable CENTERA C04012MSBL005</p> <p>Added J5910s(4U60)</p> <p>Added J5920s(4U102)</p>
06/03/2019	KJ Hsu	1.14	<p>Added Seagate Exos X14 and Exos X14z ST14000NM0048_FW-E002</p> <p>Added Seagate Exos X14 and Exos X14z ST14000NM0018_FW-SN02</p> <p>Updated Crucial SSD CT1000MX200SSD1 firmware to MU05</p> <p>Updated Samsung SSD MZILT960HAHQ007 firmware to GFX2</p>
23/05/2019	KJ Hsu	1.15	<p>Added Seagate Enterprise Performance 10K ST600MM0009_FW-N001</p> <p>Added Seagate Enterprise Performance 15K ST900MP0006_FW-N003</p> <p>Added Seagate SKYHAWK Surveillance ST8000VE0004_FW-EV01</p> <p>Added Seagate Exos X14 and Exos X14z ST12000NM0008_FW-SN01</p> <p>Added WD Ultrastar DC HC530 0F31284</p> <p>Added WD Ultrastar DC HC520 0F30146</p> <p>Added Toshiba PM5-R SAS SSD KPM51RUG960G_FW-0107</p> <p>Added Toshiba PM5-R SAS SSD KPM51RUG480G</p> <p>Added Toshiba PM5-R SAS SSD KPM51RUG1T92</p> <p>Added Toshiba PM5-R SAS SSD KPM51RUG3T84</p>
11/06/2019	KJ Hsu	1.16	<p>Update to v1.16</p> <p>Added Toshiba Enterprise MG07SCA12TE</p>
01/11/2019	KJ Hsu	1.17	<p>Added innodisk DGS25-01TM71EC1QF-H04</p> <p>Added innodisk DGS25-02TM71ECAQF-H04</p> <p>Added Seagate NYTRO3331_XS960SE7004_F-0002</p> <p>Added Seagate ST16000NM001G-2KK103_FW-SN01</p> <p>Added Samsun 860pro_MZ-76P1T0_FW-1B6Q</p> <p>Added Toshiba AL15SEB060N_FW-1401</p> <p>Added Toshiba AL15SEB24EQ</p> <p>Added Toshiba AL15SEB18EQ</p> <p>Added Toshiba AL15SEB12EQ</p> <p>Added Toshiba AL15SEB09EQ</p> <p>Added Toshiba AL15SEB06EQ</p> <p>Added Toshiba SSD KHK61RSE1T92</p> <p>Added Micron MTFDDAK2T0TDL_FW-M5MU000</p> <p>Added Micron MTFDDAK1T9QDE_FW-D2MU001</p> <p>Added Seagate ST8000NM001A</p> <p>Added Seagate ST6000NM029A</p> <p>Added Seagate ST4000NM005A</p> <p>Added Seagate ST2000NM004A</p> <p>Added Seagate ST4000NM003A</p> <p>Added Seagate ST3000NM001A</p> <p>Added Seagate ST2000NM003A</p> <p>Added Seagate ST1000NM001A</p>
04/03/2020	KJ Hsu	1.18	<p>Added Toshiba MG08ACA16TE_FW-0101</p> <p>Add Toshiba MG04ACA600E_FW-FS3B</p> <p>Add Toshiba MG04ACA500E_FW-FS3B</p> <p>Add Toshiba MG04ACA400E_FW-FS3B</p> <p>Add Toshiba MG04ACA300E_FW-FS3B</p> <p>Add Toshiba MG04ACA200E_FW-FS3B</p> <p>Add Toshiba MG08SCA16TE_FW-0101</p>

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			Added Brocade G610
06/10/2020	KJ Hsu	1.20	Add WD Ultrastar DC HC550 WUH721818AL5204_FW-C120 Add WD Ultrastar DC HC550 WUH721816AL5204_FW-C232
30/10/2020	KJ Hsu	1.21	Added Citrix Hypervisor 8.2 LTSR Certified.  Added Citrix system as following: Citrix Hypervisor 8.2 LTSR Citrix Hypervisor 8.1 Citrix Hypervisor 8.0 Citrix Hypervisor 7.1 LTSR Citrix Hypervisor 7.0 LTSR
31/12/2020	KJ Hsu	1.22	Added WD Red Pro Series: WD2002FFSX_FW-0A830A83 WD4003FFSX_FW-0A830A83 WD6003FFSX_FW-0A830A83 WD8003FFSX_FW-0A830A83 WD101KFBX_FW-0A830A83 WD102KFBX_FW-0A830A83 WD121KFBX_FW-0A830A83 WD141KFGX_FW-0A830A83 WD161KFGX_FW-0A830A83 WD181KFGX_FW-0A830A83  Added WD Ultrastar DC HC550 Series: WUH721818ALE6L4_FW-W120 WUH721816ALE6L4_FW-W120  Added WD Ultrastar DC HC310 Series: HUS728T8TALE6L4_FW-W984 HUS726T6TALE6L4_FW-W984 HUS726T4TALE6L4_FW-W984  Added WD Ultrastar DC HC510 Series: HUH721008AL5200_FW-A21D HUH721010AL5200_FW-A21D  Added WD DC HC530 WUH721414AL5204_FW-07G Added Toshiba MG08-D Series MG08ADA400E_FW-0101
19/08/2021	KJ Hsu	1.23	Added WD SATA SSD RED SA500 NAS Series: WDS400T1R0A_FW-00WR WDS200T1R0A_FW-00WR WDS100T1R0A_FW-00WR WDS500G1R0A_FW-00WR  Added TOSHIBA SAS HDD MG08-D Series: MG08SDA800E_FW-0101 MG08SDA600E_FW-0101 MG08SDA400E_FW-0101  Updated TOSHIBA MG07SCA12TE_FW-0102  Added TOSHIBA SATA HDD MG08-D Series: MG08ADA800E_FW-0101 MG08ADA600E_FW-0101 MG08ADA400E_FW-0101

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			<p>Added KIOXIA SAS SSD PM6-R Series: KPM61RUG1T92_FW-0103 KPM61RUG960G_FW-0103</p> <p>Added TOSHIBA SATA HDD MG09 Series MG09ACA18TE_FW-0103 MG09ACA16TE_FW-0103</p>
29/06/2022	KJ Hsu	1.24	<p>Added KIOXIA SAS SSD PM6-R Series: KPM61RUG3T84_FW-0107 KPM61RUG1T92_FW-0107 KPM61RUG960G_FW-0107 KPM61RUG3T84_FW-0106 KPM61RUG1T92_FW-0106 KPM61RUG960G_FW-0106</p>
06/07/2022	KJ Hsu	1.24	<p>Added Toshiba HUH721008AL5204_FW-C38F</p> <p>Added WD Ultrastar DC HC310: HUS726T4TAL5204_FW-C40H</p> <p>Added Seagate Exos 7E10 Series: ST10000NM018B_FW-E001 ST8000NM018B_FW-E001 ST6000NM020B_FW-E001 ST4000NM025B_FW-E001 ST2000NM018B_FW-E001</p> <p>Added Seagate Enterprise Performance 10K ST2400MM0129_FW-C004 Added Seagate Enterprise Capacity v5 ST8000NM0075_FW-E004</p> <p>Added Seagate Exos X16 Series: ST14000NM002G_FW-E003 ST12000NM002G_FW-E003 ST10000NM002G_FW-E003</p> <p>Added Seagate Exos X18 Series: ST18000NM004J_FW-E001 ST16000NM004J_FW-E001 ST14000NM004J_FW-E001 ST12000NM004J_FW-E001 ST10000NM013G_FW-E001</p> <p>Added Windows server 2019/2022</p> <p>Added HGST HUH721008AL5204_FW-C38F</p>
02/11/2022	KJ Hsu	1.25	<p>Change document version to version 1.25</p> <p>Added Toshiba MG07 SCA Series: MG07SCA14TE_FW-0105 MG07SCA12TE_FW-0105</p> <p>Added WD DC HC560 SAS WUH722020BL5204_FW-C540 Added WD DC HC560 SATA WUH722020BLE6L4_FW-W540</p> <p>Updated Seagate Exos 7E10 Series: ST10000NM018B_FW-E0A1 ST8000NM018B_FW-E0A1 ST6000NM020B_FW-E0A1</p>

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			<p>ST4000NM025B_FW- E0A1 ST2000NM018B_FW- E0A1</p> <p>Updated Toshiba MG08SCA16TE_FW-0105</p> <p>Added Toshiba MG09 SCA Series: MG09SCA18TE_FW-0105 MG09SCA16TE_FW-0105 MG09SCA14TE_FW-0105 MG09SCA12TE_FW-0105 MG09SCA10TE_FW-0105</p> <p>Added Toshiba MG08ACA16TE_FW-0103 Added WD SAS WUH722222AL5204_FW-W730 Added WD SATA WUH722222ALE6L4_FW-W730 Updated HGST SAS HUS726T4TAL5204_FW-C460</p>
23/12/2022	KJ Hsu	1.25	<p>Updated WD SAS WUH722222AL5204_FW-C73K Updated WD SAS WUH722020BL5204_FW-C54K Added Toshiba SATA MG10ACA20TE_FW-0102 Added Seagate SATA ST8000NM017B_FW-SN02 Added Seagate SATA ST4000NM024B_FW-SN02</p>
26/06/2023	KJ Hsu	1.26	<p>Updated TOSHIBA MG07 SCA Series: MG07SCA14TE_FW-0107 MG07SCA12TE_FW-0107</p> <p>Updated TOSHIBA SATA HDD MG09 Series MG09ACA18TE_FW-0105 MG09ACA16TE_FW-0105</p> <p>Update TOSHIBA MG06SCA Series: MG06SCA10TE_FW-0108 MG06SCA800E_FW-0108 MG06SCA600E_FW-0108</p> <p>Added Toshiba SAS MG10 SCA Series: MG10SCA20TE_FW-0101 MG10SCA18TE_FW-0101</p> <p>Updated TOSHIBA SAS HDD MG08-D Series: MG08SDA800E_FW-0103 MG08SDA600E_FW-0103</p> <p>Updated TOSHIBA SAS HDD MG08-D Series: MG08SDA400E_FW-0104</p> <p>Added HGST SAS Ultrastar C10K1800 Series: HUC101818CS4200_FW-AA01 HUC101812CS4200_FW-AA01 HUC101890CS4200_FW-AA01 HUC101860CS4200_FW-AA01 HUC101845CS4200_FW-AA01</p> <p>Added KIOXIA SAS SSD PM7-R Series: KPM71RUG3T84_FW-0103 KPM71RUG1T92_FW-0103</p>

**DEVICE COMPATIBILITY NOTE:**

Basic compatibility between the 3<sup>rd</sup> party device and Promise device has been verified in typical configurations, unless otherwise stated.

**DISCLAIMERS:**

Only the versions available at time of testing have been verified, as listed. Corner cases may exist depending on user configuration etc. Individual 3<sup>rd</sup> party units may exhibit problems that did not show up in through the Promise test process. Published performance is not assured with configuration deviations.

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# Hard Disk Drives

## SAS

Vendor	Series	Model	Part Number	Firmware	Capacity	RPM	Interface	Form Factor	Format
HGST	Ultrastar He12	HUH721212AL5200	0F29530	A3D0	12TB	7,200	12Gb/s SAS	3.5"	512e
		HUH721010AL5200	0F27352	A21D	10TB	7,200	12Gb/s SAS	3.5"	512e
	Ultrastar He10	HUH721008AL5200	0F27356	A21D	8TB	7,200	12Gb/s SAS	3.5"	512e
		HUH721008AL5204	0F27358	C38F	8TB	7,200	12Gb/s SAS	3.5"	512e
	Ultrastar He8	HUH728080AL5200	0F23268	A907	8TB	7,200	12Gb/s SAS	3.5"	512e
		HUH728060AL5200	0F23270	A907	6TB	7,200	12Gb/s SAS	3.5"	512e
	Ultrastar 7K6000	HUS726060AL5210	0F22791	A907	6TB	7,200	12Gb/s SAS	3.5"	512e
		HUS726050AL5210	0F22793	A907	5TB	7,200	12Gb/s SAS	3.5"	512e
		HUS726040AL5210	0F22795	A907	4TB	7,200	12Gb/s SAS	3.5"	512e
		HUS726020AL5210	0F22799	A907	2TB	7,200	12Gb/s SAS	3.5"	512e
		HUS726040AL5215	0F22825	D907	4TB	7,200	12Gb/s SAS	3.5"	512e
		HUS726T4TAL5204	0B35919	C460	4TB	7,200	12Gb/s SAS	3.5"	512e
		HUS726T6TAL5204	0B36047	C460	6TB	7,200	12Gb/s SAS	3.5"	512e
	Ultrastar C10K1800	HUC101812CSS200	0B28807	A904	1.2TB	10,000	12Gb/s SAS	2.5"	512n
		HUC101890CSS200	0B27976	A904	900GB	10,000	12Gb/s SAS	2.5"	512n
		HUC101860CSS200	0B28808	A904	600GB	10,000	12Gb/s SAS	2.5"	512n
		HUC101830CSS200	0B28810	A904	300GB	10,000	12Gb/s SAS	2.5"	512n
		HUC101818CS4200	0B27978	AA01	1.8TB	10,000	12Gb/s SAS	2.5"	512e/4kn
		HUC101812CS4200	0B27977	AA01	1.2TB	10,000	12Gb/s SAS	2.5"	512e/4kn
		HUC101890CS4200	0B27975	AA01	900GB	10,000	12Gb/s SAS	2.5"	512e/4kn
		HUC101860CS4200	0B27974	AA01	600GB	10,000	12Gb/s SAS	2.5"	512e/4kn
	HUC101845CS4200	0B27973	AA01	450GB	10,000	12Gb/s SAS	2.5"	512e/4kn	
	Ultrastar C15K600	HUC156060CSS200	0B28953	A904	600GB	15,000	12Gb/s SAS	2.5"	512n
HUC156045CSS200		0B28954	A904	450GB	15,000	12Gb/s SAS	2.5"	512n	
HUC156030CSS200		0B28955	A904	300GB	15,000	12Gb/s SAS	2.5"	512n	
WD	Ultrastar Enterprise	HUS728T8TAL5204	0B36400	410	8TB	7,200	12Gb/s SAS	3.5"	512e

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	Previously Ultrastar 7K8								
	Ultrastar DC HC310	HUS726T4TAL5204	0B35950	W730	4TB	7,200	12Gb/s SAS	3.5"	512e
	Ultrastar DC HC510	HUH721010AL5200	HUH721010AL5200	A21D	10TB	7,200	12Gb/s SAS	3.5"	512e
		HUH721008AL5200	HUH721008AL5200	A21D	8TB	7,200	12Gb/s SAS	3.5"	512e
	Ultrastar DC HC530	WUH721414AL5204	0F31052	07A 07G	14TB	7,200	12Gb/s SAS	3.5"	512e
	Ultrastar DC HC550	WUH721818AL5204	0F38353	C120	18TB	7,200	12Gb/s SAS	3.5"	512e
		WUH721816AL5204	0F38357	C232	16TB	7,200	12Gb/s SAS	3.5"	512e
	Ultrastar DC HC560	WUH722020BL5204	0F38652	C54K	20TB	7,200	12Gb/s SAS	3.5"	512e
Ultrastar DC HC570	WUH722222AL5204	0F48052	C73K	22TB	7,200	12Gb/s SAS	3.5"	512e	
Seagate	Enterprise Capacity 3.5 v5	ST6000NM0095	1Y2210-002	E002	6TB	7,200	12Gb/s SAS	3.5"	512e
		ST4000NM0025	1V4207-002	N002	4TB	7,200	12Gb/s SAS	3.5"	512n
		ST3000NM0025	1V420N-002	N002	3TB	7,200	12Gb/s SAS	3.5"	512n
		ST8000NM0075	1RM212-003	E003/E004	8TB	7,200	12Gb/s SAS	3.5"	512n
	Enterprise Capacity 3.5 v5 SED	ST4000NM0135	2AR207-002	NF02	4TB	7,200	12Gb/s SAS	3.5"	512n
	Enterprise Capacity 2.5 HDD v3	ST2000NX0273	1FM201-002	E004	2TB	7,200	12Gb/s SAS	2.5"	512e
		ST1000NX0333	1FN201-002	E004	1TB	7,200	12Gb/s SAS	2.5"	512e
	Enterprise Capacity v4	ST6000NM0034	1HT27Z-001	E005	6TB	7,200	12Gb/s SAS	3.5"	512e
		ST4000NM0034	1HT278-001	E005	4TB	7,200	12Gb/s SAS	3.5"	512e
		ST2000NM0034	1HT274-001	E005	2TB	7,200	12Gb/s SAS	3.5"	512e
	Enterprise Performance 10K	ST1200MM0088	1FF200-003	N003	1.2TB	10,000	12Gb/s SAS	2.5"	512n
		ST600MM0088	1FD200-004	N003	600GB	10,000	12Gb/s SAS	2.5"	512n
		ST2400MM0129	1XK203-001	C003/C004	2.4TB	10,000	12Gb/s SAS	2.5"	512n
		ST600MM0009	1XF200-001	N001	600GB	10,000	12Gb/s SAS	2.5"	512n
	Enterprise Performance 15K v6	ST900MP0146	1UY203-002	C003	900GB	15K	12Gb/s SAS	2.5"	512n
		ST900MP0006	1UV200-002	N003	900GB	15K	12Gb/s SAS	2.5"	512n
Exos 7E8	ST8000NM001A	ST8000NM001A	E001	8TB	7,200	12Gb/s SAS	3.5"	512e	
	ST6000NM021A	ST6000NM021A	E001	6TB	7,200	12Gb/s SAS	3.5"	512e	
	ST4000NM002A	ST4000NM002A	E001	4TB	7,200	12Gb/s SAS	3.5"	512e	
	ST2000NM001A	ST2000NM001A	E001	2TB	7,200	12Gb/s SAS	3.5"	512e	

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		ST4000NM003A	ST4000NM003A	N001	4TB	7,200	12Gb/s SAS	3.5"	512n
		ST3000NM001A	ST3000NM001A	N001	3TB	7,200	12Gb/s SAS	3.5"	512n
		ST2000NM003A	ST2000NM003A	N001	2TB	7,200	12Gb/s SAS	3.5"	512n
		ST1000NM001A	ST1000NM001A	N001	1TB	7,200	12Gb/s SAS	3.5"	512n
	<b>Exos 7E10</b>	ST10000NM018B	ST10000NM018B	E001 EOA1	10TB	7,200	12Gb/s SAS	3.5"	512e
		ST8000NM018B	ST8000NM018B	E001	8TB	7,200	12Gb/s SAS	3.5"	512e
		ST6000NM020B	ST6000NM020B	E001 EOA1	6TB	7,200	12Gb/s SAS	3.5"	512e
		ST4000NM025B	ST4000NM025B	E001 EOA1	4TB	7,200	12Gb/s SAS	3.5"	512e
		ST2000NM018B	ST2000NM018B	E001 EOA1	2TB	7,200	12Gb/s SAS	3.5"	512e
	<b>Exos X14</b> <b>Exos X14z</b>	ST14000NM0048	2H4201-002	E002	14TB	7,200	12Gb/s SAS	3.5"	512e
	<b>Exos X16</b>	ST14000NM002G	ST14000NM002G	E003	14TB	7,200	12Gb/s SAS	3.5"	512e
		ST12000NM002G	ST12000NM002G	E003	12TB	7,200	12Gb/s SAS	3.5"	512e
		ST10000NM002G	ST10000NM002G	E003	10TB	7,200	12Gb/s SAS	3.5"	512e
	<b>Exos X18</b>	ST18000NM004J	ST18000NM004J	E001	18TB	7,200	12Gb/s SAS	3.5"	512e
		ST16000NM004J	ST16000NM004J	E001	16TB	7,200	12Gb/s SAS	3.5"	512e
		ST14000NM004J	ST14000NM004J	E001	14TB	7,200	12Gb/s SAS	3.5"	512e
ST12000NM004J		ST12000NM004J	E001	12TB	7,200	12Gb/s SAS	3.5"	512e	
ST10000NM013G		ST10000NM013G	E001	10TB	7,200	12Gb/s SAS	3.5"	512e	
<b>Toshiba</b>	<b>Enterprise Capacity</b> <b>(Tomcat-R)</b>	MG04SCA60EE	HDEPF10GDA51	0901	6TB	7,200	12Gb/s SAS	3.5"	512e
		MG04SCA50EE	HDEPF11GDA51	0901	5TB	7,200	12Gb/s SAS	3.5"	512e
		MG04SCA40EE	HDEPF12GDA51	0901	4TB	7,200	12Gb/s SAS	3.5"	512e
		MG04SCA20EE	HDEPF14GDA51	0901	2TB	7,200	12Gb/s SAS	3.5"	512e
		MG04SCA40EN	HDEPF02GDA51	0901	4TB	7,200	12Gb/s SAS	3.5"	512n

### VTrak E5000/EFA5310 SR4.6 Compatibility List v1.26

		MG04SCA20EN	HDEPF04GDA51	0901	2TB	7,200	12Gb/s SAS	3.5"	512n
		MG06SCA10TE	HDEPK10GEA51	0108	10TB	7,200	12Gb/s SAS	3.5"	512e
		MG06SCA800E	MG06SCA08TE	0108	8TB	7,200	12Gb/s SAS	3.5"	512e
		MG06SCA600E	MG06SCA06TE	0108	6TB	7,200	12Gb/s SAS	3.5"	512e
		MG07SCA12TE	MG07SCA12TE	0107	12TB	7,200	12Gb/s SAS	3.5"	512n
		MG07SCA14TE	HDEPM10GEA51	0107	14TB	7,200	12Gb/s SAS	3.5"	512n
		MG08SCA16TE	MG08SCA16TE	0105	16TB	7,200	12Gb/s SAS	3.5"	512e
<b>Enterprise Performance</b>		AL14SEB18EQ	HDEBJ10GEA51	0102	1.8TB	10,000	12Gb/s SAS	2.5"	512e
		AL14SEB12EQ	HDEBJ11GEA51	0102	1.2TB	10,000	12Gb/s SAS	2.5"	512e
		AL14SEB09EQ	HDEBJ12GEA51	0102	900GB	10,000	12Gb/s SAS	2.5"	512e
		AL14SXB90EE	HDEAH10GEA51	0101	900GB	15,000	12GB/s SAS	2.5"	512e
		AL14SEB06EQ	HDEBJ13GEA51	0102	600GB	10,000	12Gb/s SAS	2.5"	512e
		AL15SEB24EQ	AL15SEB24EQ	0102	2.4TB	10,500	12Gb/s SAS	2.5"	512e
		AL14SEB120N	HDEBF01GEA51	0103	1.2TB	10,000	12Gb/s SAS	2.5"	512e/ 512n
		AL15SEB060N	AL15SEB060N	1401	600GB	10,000	12Gb/s SAS	2.5"	512e
		AL15SEB030N	AL15SEB030N	1401	300GB	10,000	12Gb/s SAS	2.5"	512e
		AL15SEB24EQ	AL15SEB24EQ	0102	2.4TB	10,500	12Gb/s SAS	2.5"	512e
		AL15SEB18EQ	AL15SEB18EQ	0102	1.8TB	10,500	12Gb/s SAS	2.5"	512e
		AL15SEB12EQ	AL15SEB12EQ	0102	1.2TB	10,500	12Gb/s SAS	2.5"	512e
		AL15SEB09EQ	AL15SEB09EQ	0102	900GB	10,500	12Gb/s SAS	2.5"	512e
		AL15SEB06EQ	AL15SEB06EQ	0102	600GB	10,500	12Gb/s SAS	2.5"	512e
<b>Enterprise Capacity</b> <b>MG07 ACA Series</b>		MG07ACA14TE	MG07ACA14TE	0101 0102	14TB	7,200	SATA 6Gb/s	3.5"	512e
		MG07ACA12TE	MG07ACA12TE	0101 0102	12TB	7,200	SATA 6Gb/s	3.5"	512e
<b>MG08-D Series</b>		MG08SDA800E	HDEJN14GEA51	0103	8TB	7,200	12Gb/s SAS	3.5"	512e
		MG08SDA600E	HDEJN14GEA51	0103	6TB	7,200	12Gb/s SAS	3.5"	512e
		MG08SDA400E	HDEJN14GEA51	0104	4TB	7,200	12Gb/s SAS	3.5"	512e
<b>MG09 SCA Series</b>		MG09SCA18TE	MG09SCA18TE	0105	18TB	7,200	12Gb/s SAS	3.5"	512e
		MG09SCA16TE	MG09SCA16TE	0105	16TB	7,200	12Gb/s SAS	3.5"	512e
		MG09SCA14TE	MG09SCA14TE	0105	14TB	7,200	12Gb/s SAS	3.5"	512e
		MG09SCA12TE	MG09SCA12TE	0105	12TB	7,200	12Gb/s SAS	3.5"	512e
		MG09SCA10TE	MG09SCA10TE	0105	10TB	7,200	12Gb/s SAS	3.5"	512e

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	MG10 SCA Series	MG10SCA20TE	MG10SCA20TE	0101	20TB	7,200	12Gb/s SAS	3.5"	512e
		MG10SCA18TE	MG10SCA18TE	0101	18TB	7,200	12Gb/s SAS	3.5"	512e

**Note: Drives with 4Kn formatting are not supported**

### SATA

Vendor	Series	Model	Part Number	Firmware	Capacity	RPM	Interface	Form Factor	Format
HGST	Ultrastar 7K2000	HUA722010CLA330	0A39289	A3EA	1TB	7,200	SATA	3.5"	512e
		HUS726060ALE610	0F23001	T7J0	6TB	7,200	SATA	3.5"	512e
	Ultrastar 7K6000	HUS726T4TALA6L4	0B35950	W40H	4TB	7,200	SATA	3.5"	512e
		HUS726T6TALE6L4	0B36039	W40H	6TB	7,200	SATA	3.5"	512e
	Ultrastar He8	HUH728080ALE600	0F23267	T907	8TB	7,200	SATA	3.5"	512e
		HUH728060ALE600	0F23269	T907	6TB	7,200	SATA	3.5"	512e
Ultrastar He12	HUH721212ALE604	0F30146	LGNT3D0	12TB	7,200	SATA	3.5"	512e	
	HUH721212ALE600	0F30144	LGNT3D0	12TB	7,200	SATA	3.5"	512e	
Seagate	Enterprise Capacity 3.5 HDD	ST8000NM0055	1RM112-001	SN02	8TB	7,200	SATA	3.5"	512e
		ST8000NM017B	ST8000NM017B	SN02	8TB	7,200	SATA	3.5"	512e
		ST4000NM024B	ST4000NM024B	SN02	4TB	7,200	SATA	3.5"	512e
	Enterprise Capacity 3.5 HDD V6	ST10000NM0016	1TT101-002	SNCO	10TB	7,200	SATA	3.5"	512e
	Enterprise Capacity 3.5 HDD V7	ST12000NM0007	2A1101-001	SN01	12TB	7,200	SATA	3.5"	512e
	Enterprise cloud	MC04ACA400E	HDERR11GEA51	PF2A	4TB	7,200	SATA	3.5"	512e
	SKYHAWK Surveillance	ST6000VX0023	2EF110-300	SC60	6TB	7,200	SATA	3.5"	512e
		ST8000VE0004-2K111g	ZA27P8H5	EV01	8TB	7,200	SATA	3.5"	512e
	Exos X14	ST14000NM0018	2H4101-002	SN02	14TB	7,200	SATA	3.5"	512e
Exos X14z	ST12000NM0008	2H3101-001	SN01	12TB	7,200	SATA	3.5"	512e	
Exos X16	ST16000NM001G	ST16000NM001G	SN01	16TB	7,200	SATA	3.5"	512e	
Toshiba	MG04ACA Series	MG04ACA600E	HDKEB03G0A01	FS3B FS4B	6TB	7,200	SATA 6Gb/s	3.5"	512e
		MG04ACA500E	HDEPR10GEA51		5TB	7,200	SATA 6Gb/s	3.5"	512e
		MG04ACA400E	HDEPR11GEA51		4TB	7,200	SATA 6Gb/s	3.5"	512e
		MG04ACA300E	HDEPR12GEA51		3TB	7,200	SATA 6Gb/s	3.5"	512e
		MG04ACA200E	MG04ACA200E		2TB	7,200	SATA 6Gb/s	3.5"	512e

### VTrak E5000/EFA5310 SR4.6 Compatibility List v1.26

	Enterprise Capacity HDD-MG07 Series	MG07ACA12TE	HDEPW11GEA51	101	12TB	7,200	SATA	3.5"	512e
		MG07ACA14TE	HDEPW10GEA51	101	14TB	7,200	SATA	3.5"	512e
	Enterprise Capacity HDD-MG08 Series	MG08ACA16TE	MG08ACA16TE	101 103	16TB	7,200	SATA	3.5"	512e
		MG08ADA800E	MG08ADA800E	101	8TB	7,200	SATA	3.5"	512e
	Enterprise Capacity HDD-MG08-D Series	MG08ADA600E	MG08ADA600E	101	6TB	7,200	SATA	3.5"	512e
		MG08ADA400E	MG08ADA400E	101	4TB	7,200	SATA	3.5"	512e
		MG09 Series	MG09ACA18TE	HDEPZ10GEA51	105	18TB	7,200	SATA	3.5"
MG09ACA16TE	HDEPZ10GEA51		105	16TB	7,200	SATA	3.5"	512e	
MG10 Series	MG10ACA20TE	MG10ACA20TE	102	20TB	7,200	SATA	3.5"	512e	
WD	WD Gold	WD6002FRYZ-01WD5B0	2W10001	1M02	6TB	7,200	SATA	3.5"	512e
	Ultrastar DC HC560	WUH722222ALE6L4	0F48155	W730	6TB	7,200	SATA	3.5"	512e
	Ultrastar DC HC560	WUH722020BLE6L4	0F38785	W540	20TB	7,200	SATA	3.5"	512e
	Ultrastar DC HC550	WUH721818ALE6L4	0F38459	W120	18TB	7,200	SATA	3.5"	512e
		WUH721816ALE6L4	WUH721816ALE6L4	W120	16TB	7,200	SATA	3.5"	512e
	Ultrastar DC HC530	WUH721414ALE6L4	0F31284	07A	14TB	7,200	SATA	3.5"	512e
	Ultrastar DC HC520	HUH721212ALE604	0F30146	07A	12TB	7,200	SATA	3.5"	512e
	Ultrastar DC HC310	HUS728T8TALE6L4	HUS728T8TALE6L4	W984	8TB	7,200	SATA	3.5"	512e
		HUS726T6TALE6L4	HUS726T6TALE6L4	W984	6TB	7,200	SATA	3.5"	512e
		HUS726T4TALE6L4	HUS726T4TALE6L4	W984	4TB	7,200	SATA	3.5"	512e
	NAS Red Pro	WD2002FFSX	WD2002FFSX	0A830A83	2TB	7,200	SATA	3.5"	512e
		WD4003FFBX	WD4003FFBX	0A830A83	4TB	7,200	SATA	3.5"	512e
		WD6003FFBX	WD6003FFBX	0A830A83	6TB	7,200	SATA	3.5"	512e
		WD8003FFBX	WD8003FFBX	0A830A83	8TB	7,200	SATA	3.5"	512e
WD101KFBX		WD101KFBX	0A830A83	10TB	7,200	SATA	3.5"	512e	
WD102KFBX		WD102KFBX	0A830A83	10TB	7,200	SATA	3.5"	512e	
WD121KFBX		WD121KFBX	0A830A83	12TB	7,200	SATA	3.5"	512e	
WD141KFGX		WD141KFGX	0A830A83	14TB	7,200	SATA	3.5"	512e	

		WD161KFGX	WD161KFGX	0A830A83	16TB	7,200	SATA	3.5"	512e
		WD181KFGX	WD181KFGX	0A830A83	18TB	7,200	SATA	3.5"	512e

Note: Drives with 4Kn formatting are not supported

## Solid State Drives

### SAS SSD

The following drives have an SSD Trim Type of RZAT.

Vendor	Series	Model	Part Number	Interface	Capacity	Firmware	Form Factor	Type
HUAWEI	ES3500S-V5	HWE52SS33T8L002N	HWE52SS33T8L002N	12Gb/s SAS	3.84TB	2158	2.5"	3D TLC
	ES3600S-V5	HWE52SS31T6M002N	HWE52SS31T6M002N	12Gb/s SAS	1.6TB	2158	2.5"	3D TLC
KIOXIA	PM6-R Series	KPM61RUG3T84	SDFUS05GEA91T	SAS 24Gb/s	3.84TB	0107 0106	2.5"	TLC
		KPM61RUG1T92	SDFUS05GEA91T	SAS 24Gb/s	1.92TB	0107 0106 0103	2.5"	TLC
		KPM61RUG960G	SDFUS05GEA91T	SAS 24Gb/s	960GB	0107 0106 0103	2.5"	TLC
	PM7-R Series	KPM71RUG3T84	KPM71RUG3T84	SAS 24Gb/s	3.84TB	0103	2.5"	TLC
		KPM71RUG1T92	KPM71RUG1T92	SAS 24Gb/s	1.92TB	0103	2.5"	TLC
	Micron	S650DC	MTFDJAL3T2MBS	MTFDJAL3T2MBS-2AN1ZAB	12Gb/s SAS	3200GB	M017	2.5"
MTFDJAL1T6MBS			MTFDJAL1T6MBS-2AN1ZAB	12Gb/s SAS	1600GB	M017	2.5"	MLC
MTFDJAK800MBS			MTFDJAK800MBS-2AN1ZAB	12Gb/s SAS	800GB	M017	2.5"	MLC
MTFDJAK400MBS			MTFDJAK400MBS-2AN1ZAB	12Gb/s SAS	400GB	M017	2.5"	MLC
S630DC		MTFDJAL3T8MBT	MTFDJAL3T8MBT-2AN1ZAB	12Gb/s SAS	3840GB	M017	2.5"	MLC

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		MTFDJAL3T2MBT	MTFDJAL3T2MBT-2AN1ZAB	12Gb/s SAS	3200GB	M017	2.5"	MLC
		MTFDJAL1T9MBT	MTFDJAL1T9MBT-2AN1ZAB	12Gb/s SAS	1920GB	M017	2.5"	MLC
		MTFDJAL1T6MBT	MTFDJAL1T6MBT-2AN1ZAB	12Gb/s SAS	1600GB	M017	2.5"	MLC
		MTFDJAK960MBT	MTFDJAK960MBT-2AN1ZAB	12Gb/s SAS	960GB	M017	2.5"	MLC
		MTFDJAK800MBT	MTFDJAK800MBT-2AN1ZAB	12Gb/s SAS	800GB	M017	2.5"	MLC
		MTFDJAK480MBT	MTFDJAK480MBT-2AN1ZAB	12Gb/s SAS	480GB	M017	2.5"	MLC
		MTFDJAK400MBT	MTFDJAK400MBT-2AN1ZAB	12Gb/s SAS	400GB	M017	2.5"	MLC
	S610DC	MTFDJAL3T8MBU	MTFDJAL3T8MBU-2AN1ZAB	12Gb/s SAS	3840GB	M017	2.5"	MLC
		MTFDJAL1T9MBU	MTFDJAL1T9MBU-2AN1ZAB	12Gb/s SAS	1920GB	M017	2.5"	MLC
Samsung	Enterprise SSD PM1643	MZILT960HAHQ-00007	MZILT960HAHQ-00007	12Gb/s SAS	960GB	GXF2	2.5"	MLC
Toshiba	Enterprise SSD PM5-R	KPM51RUG480G	KPM51RUG480G	12Gb/s SAS	480GB	0107	2.5"	TLC
		KPM51RUG960G	SDFBE06GEA01		960GB	0107	2.5"	TLC
		KPM51RUG1T92	KPM51RUG1T92		1,920GB	0107	2.5"	TLC
		KPM51RUG3T84	KPM51RUG3T84		3,840GB	0107	2.5"	TLC
Seagate	Nytro 3331 Series	XS960SE70004	2LZ200-002	12Gb/s SAS	960GB	0002	2.5"	3D eTLC

### SATA SSD

Vendor	Series	Model	Part Number	Interface	Capacity	Firmware	Form Factor	Type
Crucial	MX300	CT1050MX300SSD1	CT1050MX300SSD1	6Gb/s SATA	1TB	MOCR060	2.5"	TLC
	MX200	CT1000MX200SSD1	CT1000MX200SSD1	6Gb/s SATA	1TB	MU05	2.5"	TLC
Innodisk	3TG6-P	DGS25-01TM71EC1QF-H04	DGS25-01TM71EC1QF-H04	6Gb/s SATA	1TB	OZPY	2.5"	MLC
		DGS25-02TM71ECAQF-H04	DGS25-02TM71ECAQF-H04	6Gb/s SATA	2TB	OZS6	2.5"	MLC



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Micron	5100	MTFDDAK240TCB	MTFDDAK240TCB-1AR1ZAB	6Gb/s SATA	240GB	MU021	2.5"	3D TLC
		MTFDDAK480TCB	MTFDDAK480TCB-1AR1ZAB	6Gb/s SATA	480GB	MU021	2.5"	3D TLC
		MTFDDAK960TCB	MTFDDAK960CB-1AR1ZAB	6Gb/s SATA	960GB	MU021	2.5"	3D TLC
		MTFDDAK1T9TCB	MTFDDAK1T9TCB-1AR1ZAB	6Gb/s SATA	1920GB	MU021	2.5"	3D TLC
		MTFDDAK3T8TCB	MTFDDAK3T8TCB-1AR1ZAB	6Gb/s SATA	3840GB	MU021	2.5"	3D TLC
	5210	MTFDDAK1T9QDE	MTFDDAK1T9QDE	6Gb/s SATA	2TB	D2MU001	2.5"	QLC
	1100	MTFDDAK2T0TBN	MTFDDAK2T0TBN-1AR1ZABYY	6Gb/s SATA	2048GB	MOMU011	2.5"	3D TLC
	1300	MTFDDAK2T0TDL	MTFDDAK2T0TDL	6Gb/s SATA	2TB	M5MU000	2.5"	TLC
	M510DC	MTFDDAK960MBP	M1EDDAK960MBP-1AN1ZAB	6Gb/s SATA	960GB	0013	2.5"	MLC
Samsung	850 EVO	MZ-75E250	MZ7LN250HMJP	6Gb/s SATA	249 GB	2B6Q	2.5"	V-nand
		SSD 850 PRO 1TB MZ-7KE1TOBW	SSD 850 PRO 1TB MZ-7KE1TOBW	6Gb/s SATA	1TB	EXM04B6Q	2.5"	V-NAND
	860 Pro	MZ-76P1T0	MZ-7KH1TOHAJR	6Gb/s SATA	1TB	1B6Q	2.5"	V-NAND
Seagate	XF1230	XF1230 -101920	2BY172-380	6Gb/s SATA	1920GB	354	2.5"	eMLC
Toshiba	HK4E	THNSN8200PCSE	THNSN8200PCSE	6Gb/s SATA	200GB	6101	2.5"	MLC
	HK6R	KHK61RSE1T92	KHK61RSE1T92	6Gb/s SATA	2TB	1DET6101	2.5"	TLC
WD	RED SA500 NAS Series	WDS400T1R0A	WDS400T1R0A	SATA 6Gb/s	4TB	00WR	2.5"	TLC
		WDS200T1R0A	WDS200T1R0A	SATA 6Gb/s	2TB	00WR	2.5"	TLC
		WDS100T1R0A	WDS100T1R0A	SATA 6Gb/s	1TB	00WR	2.5"	TLC
		WDS500G1R0A	WDS500G1R0A	SATA 6Gb/s	500GB	00WR	2.5"	TLC

## Operating Systems

Supported Operating Environments			
Vendor	Core Platform	Type	Notes
Citrix	Citrix Hypervisor 8.2 LTSR	X64	LUN Affinity/ALUA natively supported
	Citrix Hypervisor 8.1	X64	LUN Affinity/ALUA natively supported
	Citrix Hypervisor 8.0	X64	LUN Affinity/ALUA natively supported
	Citrix Hypervisor 7.1 LTSR	X64	LUN Affinity/ALUA natively supported
	Citrix Hypervisor 7.0 LTSR	X64	LUN Affinity/ALUA natively supported
Microsoft	Windows Server 2008 R2 SP1	x64	ALUA support with PerfectPath v4.1.0.12
	Windows Server 2012 R2	x64	ALUA support with PerfectPath v4.1.0.12
	Hyper-V Windows Server 2012 R2	x64	ALUA support with PerfectPath v4.1.0.11
	Windows Server 2016	x64	ALUA support with native Microsoft Multipath I/O(MPIO) in Windows Server 2016
	Windows Server 2019 Standard	x64	ALUA support with native Microsoft Multipath I/O(MPIO) in Windows Server 2019
	Windows Server 2022 Standard	x64	ALUA support with native Microsoft Multipath I/O(MPIO) in Windows Server 2022
MAC	macOS Sierra 10.12.6	x64	LUN Affinity/ALUA natively supported.
	macOS Ventura 13.1	x64	LUN Affinity/ALUA natively supported.
RedHat	RHEL 6.6.64(2.6.32-642)	X64	ALUA support with Promise MPIO v0.0.0.13
	RHEL 6.7(2.6.32-573)	x64	ALUA support with Promise MPIO v0.0.0.12
	RHEL 6.8 ( 2.6.32-642)	x64	ALUA support with Promise MPIO v0.0.0.13
	RHEL 7.0(3.10.0-123)	x64	ALUA support with Promise MPIO v0.0.0.13
	RHEL 7.2 (3.10.0-327)	x64	ALUA support with Promise MPIO v0.0.0.12
SUSE	SLES 11 sp4 (3.0.101.63.1)	x64	ALUA support with Promise MPIO v0.0.0.13
	SLES 12 sp1 (3.12.49-11)	x64	ALUA support with Promise MPIO v0.0.0.13
VMware	ESXi Server v6.0	x64	LUN Affinity/ALUA natively supported
	ESXi Server v6.5	x64	LUN Affinity/ALUA natively supported

## Fibre Channel Switches and SFPs

### Switches

Fibre Channel Switches			
Vendor	Model	Ports	Firmware
Brocade	Brocade 6505	24x16Gb	V7.4.1a
	Brocade 6510	40x16Gb	V7.4.1a
	Brocade G610	24x16/32Gb	V8.2.1b
Cisco	MDS 9148s (BIOS 2.1.17)	48x16Gb	V6.2(13b)
	MDS 9148 (BIOS 1.0.19)	48x8Gb	V6.2(13b)
QLogic	SANbox 5802V	20x8Gb	v8.0.14.13.00

### SFP's

16G SFP Interoperability Matrix (Shortwave)		
Vendor	Model	Description
Avago	AFBR-57F5PZ	Digital Diagnostic SFP, 850 nm, 14.025/8.5/4.25 GBd Low Voltage (3.3 V) - 85°C
	AFBR-57F5MZ	Digital Diagnostic SFP, 850 nm, 14.025/8.5/4.25 GBd Low Voltage (3.3 V) - 85°C
Finisar	FTLF8529P3BCV	Digital Diagnostic SFP, 850 nm, 14.025/8.5/4.25 GBd Low Voltage (3.3 V) - 70°C
Cisco	DS-SFP-FC16G-SW	Digital Diagnostic SFP, 850 nm, 14.025/8.5/4.25

8G SFP Interoperability Matrix (Shortwave)		
Vendor	Model	Description
Avago	AFBR-57D7APZ	Digital Diagnostic SFP, 850 nm, 8.5/4.25/2.125 GBd Low Voltage (3.3 V) - 85°C
Finisar	FTLF8528P2BCV	Digital Diagnostic SFP, 850 nm, 8.5/4.25/2.125 GBd Low Voltage (3.3 V) - 70°C
	FTLF8528P2BNV	Digital Diagnostic SFP, 850 nm, 8.5/4.25/2.125 GBd Low Voltage (3.3 V) - 85°C
	FTLF8528P3BCV	Digital Diagnostic SFP, 850 nm, Tri-Rate 2.125/4.25/8.5 Gb/s Fibre Channel (3.3 V), Extended Temperature, -5C to70°C
	FTLF8528P3BNV	Digital Diagnostic SFP, 850 nm, Tri-Rate 2.125/4.25/8.5 Gb/s Fibre Channel (3.3 V), Commercial Temperature, -5C to 85°C

## 16 Gb Fibre Channel Host Bus Adapters

Vendor	Model	BIOS	Firmware	Linux 6.7, 7.2	Sles 12 SP1/Sles11 SP4	Windows 2012 R2, 2008 R2	Mac
<b>Brocade</b>	BR-1860	3.2.7.0	3.2.6.0	3.2.7.0	3.2.7.0	3.2.6.0	N/A
<b>Emulex</b>	LightPulse LPe16002B-M6	11.1.212.0	11.1.217.0	11.0.240.0	11.0.240.0	11.1.145.16	N/A
<b>Qlogic</b>	QLE2672-CK	3.32	8.03.01	8.07.00.27.0-K2	8.07.00.27.0-K2	9.2.1.20	N/A
	QLE2692	3.42	8.05.44	8.07.00.47.07.0-k	8.07.00.47.12.0-k	9.2.3.20	N/A
<b>ATTO</b>	Celerity FC162E (16G)	10.6.103.8	1/26/2016	N/A	1.51	1.30	2.0.0
<b>Promise</b>	SANLink2 – Thunderbolt to 16G FC	N/A	1.1.65.30	N/A	N/A	N/A	2.0.6
	SANLink3 – Thunderbolt to 16G FC	N/A	1.1.65.43	N/A	N/A	N/A	3.0.2

## 8 Gb Fibre Channel Host Bus Adapters

Vendor	Model	BIOS	Firmware	Fcode	Linux 6.7, 7.2	Windows 2012 R2, 2008 R2	Mac
<b>Brocade</b>	FC425	v3.2.6.0	v3.2.6.0		3.2.6.0	v3.2.6.0	NA
	FC825	v3.2.6.0	v3.2.6.0		3.2.6.0	v3.2.6.0	NA
<b>Emulex</b>	LightPulse LPe12000	5.03a0	2.01A11	3.10a6		10.4.246.0	NA
	LightPulse LPe12002	5.03a0	2.01A11	3.10a6		11.0.247.0-5	NA
	LightPulse LPe12004	5.03a0	2.01A11	3.10a6		10.4.246.0	NA
	LightPulse LPe1250	2.12a11	2.01A11	3.10a6		10.0.720.0	NA
	LightPulse LPe11000	2.12a11	2.01A11	3.10a6		10.0.720.0	NA
	LightPulse LPe11002	2.12a12	2.82A3	3.10a6		10.0.720.0	NA
	LightPulse LPe11004	2.12a11	2.01A11	3.10a6		10.0.720.0	NA
	LightPulse LPe1150	2.12a11	2.01A11	3.10a6		10.0.720.0	NA
<b>Qlogic</b>	SANblade QLE2562	3.29	802.00		8.07.00.18.06.0	9.1.17.21	NA
	SANblade QLE2564	3.29	802.00		8.07.00.18.06.0	9.1.17.21	NA
<b>LSI</b>	LSI7204EP	2.02.06	1.3.20.0	1.00.49		N/A	1.05.06.00
	LSI7404EP	2.02.06	1.3.20.0	1.00.49		N/A	1.05.06.00
<b>ATTO</b>	Celerity FC162E (16G)	02/28/13	06.01.00		1.40	1.30	1.40

	Celerity FC84EN	02/28/13	06.01.00		1.90	1.80	2.40
	Celerity FC82EN	02/28/13	06.01.00		1.90	1.90	2.40
	Celerity FC42ES	3.25	3.35			1.70	2.35
<b>Promise</b>	SANLink2		1.1.58.0				2.0.6

## VMware Certified

Vendor	Version	Test Configuration	MPP Plugin	SATP Plugin	PSP Plugin	VMware Compatibility Guide
<b>VMware</b>	VMware ESXi 6.5.0	Fiber Channel	NMP	VMW_SATP_ALUA	VMW_PSP_FIXED	<a href="#">VTrak E5000 Series FC</a>

## Veeam Certified

Vendor	Version	Test Configuration	Veeam Compatibility Guide
<b>Veeam</b>	Veeam Backup & Replication 9.5	Fiber Channel	<a href="#">VTrak E5000 Series Veeam Ready - Repository</a>

## Citrix Certified

Vendor	Version	Test Configuration	Citrix Compatibility Guide
<b>Citrix</b>	Citrix Hypervisor 8.2 LTSR	Fiber Channel	<a href="#">VTrak E5000 Series Citrix Ready - Repository</a>

## Supported Promise attached Subsystems

The supported Expansion subsystems include:

Vendor	Platform	Description
Promise	VTrak J5320s	2U/24-bay JBOD, 12Gbs SAS to 12Gbs SAS (or 6Gbs SAS/SATA), 2.5" Drive Bays
	VTrak J5300s	2U/12 JBOD, 12Gbs SAS to 12Gbs SAS (or 6Gbs SAS/SATA)
	VTrak J5600s	3U/16 JBOD, 12Gbs SAS to 12Gbs SAS (or 6Gbs SAS/SATA)
	VTrak J5800s	4U/24 JBOD, 12Gbs SAS to 12Gbs SAS (or 6Gbs SAS/SATA)
	VTrak J5910s	4U/60 JBOD, 12Gbs SAS to 12Gbs SAS (or 6Gbs SAS/SATA)
	VTrak J5920s	4U/102 JBOD, 12Gbs SAS to 12Gbs SAS (or 6Gbs SAS/SATA)

Vendor	Platform	Description
Promise	VTrak J630s	3U/16-bay JBOD, 6Gbs SAS to 6Gbs SAS/SATA
	VTrak J830s	4U/24-bay JBOD, 6Gbs SAS to 6Gbs SAS/SATA
	VTrak J930s	4U/60-bay JBOD, 6Gbs SAS to 6Gbs SAS

## SAS Cables

Promise PN	Vendor	Vendor PN	Type	Description
G51130261000009	JPC	P3602U701000-2	DAC	External mini SAS to External mini SAS 8644 to 8644 12G 1M
G51130263000001	JPC	P3602U703000-1	DAC	External mini SAS to External mini SAS 8644 to 8644 12G 3M
G51130361000017	FCI	10117771-2010HLF	DAC	Mini SAS HD 4X 36P To Mini SAS 2.1 26P.1M
G51130363000000	FCI	10117771-3030HLF	DAC	Mini SAS HD 4X 36P To Mini SAS 2.1 26P.3M
N/A	AMPHENOL	601760008	DAC	Mini SAS HD To Mini SAS HD. 3M
N/A	MOLEX	1064152103	AOC	Mini SAS HD To Mini SAS HD. 3M
N/A	CENTERA	C04012MSBL005	AOC	48G Mini SAS HD AOC. 5M

Cables are tested for compatibility with Promise hardware only and are not tested to full electrical and mechanical specifications.