VTrak J5000 Compatibility List

Release Date: 03/16/2018

VTrak J5000 Systems Covered:

- **J5320 2U/24 JBOD, dual controller, 2.5" Drive Bays**
- **J5300 2U/12 JBOD, dual controller**
- **J5600 3U/16 JBOD, dual controller**
- **J5800 4U/24 JBOD, dual controller**

System Versions Covered:

- **Vtrak J5000 Firmware**– Version 1.01.0000. 53[Jan 23, 2018]

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VTrak J5000 Compatibility List v2.01

Document History

Date	Editor	Revision	Comments
05/29/2015	R Brose	0.01	1. Initial list for VTrak J5000 Compatibility
06/02/2015	R Brose	1.00	2. Added Drives, 6G HBA
06/29/2015	R Brose	1.01	3. Updated Expander FW version to 1.00.0000.61
07/16/2015	R Brose	1.02	4. Corrected Drive size and heading Typos
12/18/2015	R Hutchens	1.03	5. Updated drive tables
04/08/2016	J Buntrock	1.04	6. Added Drives, added P/N Drive column and fixed format and alignment of tables
04/21/2016	J Buntrock	1.05	7. Added Micron S650DC and HGST He8 Drives.
04/22/2016	J Buntrock	1.06	8. Added Drives, fixed format and typos.
07/20/2016	F Londono	1.07	9. Added Seagate and HGST drives
08/18/2016	F Londono	1.08	10. Added cable , HGST firmware revisions and Seagate drive
09/27/2016	F Londono	1.09	11. Added Seagate and HGST He8 SATA drives
10/11/2016	F Londono	1.10	12. Added Areca Technology 12G SAS RAID adapter
01/06/2017	F Londono	1.11	13. Added HGST TCG FIPS , Seagate 10TB SATA drive and 1m ConnPro SAS cable
04/04/2017	F Londono	1.12	14. Updated HGST firmware, Toshiba 2.5” drives, Micron 1100 & 5100 and Seagate SSD
01/23/2018	KJ Hsu	1.13	Added Samsung SSD_850-EVO-Pro-1TB Added (Micron) Crucial SSD_MX300-CT1050MX-1TB Added HGST SATA HUA722010CLA330-1TB Added HGST SAS HUH721212Al5200-12TB. Update the Version to v1.13
01/30/2018	KJ Hsu	1.14	Added HGST SAS HUH721008AL5200-8TB
02/07/2018	Wally Wang	2.0	Change Jbod FW version to SR2 Change document version to 2.0
03/16/2018	KJ Hsu	2.01	Added Toshiba MG07ACA14TE-14TB/MG07ACA12TE-12TB

DEVICE COMPATIBILITY NOTE:

Basic compatibility between the 3rd 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 3rd 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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Host Connectivity

Vendor	Model	Interface	BIOS	Firmware
Areca Technology	ARC-1883x	12Gb/S SAS	1.24a	1.53A
LSI	Avago MegaRAID 9380-8e	12Gb/S SAS	6.24.05.0	4.280.00-4226
	LSI SAS 9300-8e		8.17.00.00	08.00.00.00
	LSI 9200-8e	6 Gb/S SAS	20.0-7.39.00.00	20.00.02.00

SAS Cables

Promise PN	Vendor	Vendor PN	Description
G51130261000009	JPC	P3602U701000-2	External min SAS to External min SAS 8644 to 8644 12G 1M
G51130263000001	JPC	P3602U703000-1	External min SAS to External min SAS 8644 to 8644 12G 3M
G51130361000017	FCI	10117771-2010HLF	Mini SAS HD 4X 36P To Mini SAS 2.1 26P.1M
G51130363000000	FCI	10117771-3030HLF	Mini SAS HD 4X 36P To Mini SAS 2.1 26P.3M
	ConnPro	RS3D5TD5T10001	Slim SAS HD to Slim SAS HD 1M
	ConnPro	RS3D5TD5T100P1	Same cable with Pull Tab Enhancement

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

Hard Disk Drives

SAS Drives

Vendor	Series	Model	P/N	Size	Interface	Capacity	Spindle Speed (RPM)	F/W ver.	Format
HGST	Ultrastar C15K600	HUC156060CSS200	0B28953	2.5"	SAS 12Gb/s	600GB	15K	A904	512n
		HUC156045CSS200	0B28954	2.5"	SAS 12Gb/s	450GB	15K	A904	512n
		HUC156030CSS200	OB28955	2.5"	SAS 12Gb/s	300GB	15K	A904	512n
	Ultrastar C10K1800	HUC101818CS4200	OB27978	2.5"	SAS 12Gb/s	1.8TB	10K	A380	512e
		HUC101812CS4200	OB27977	2.5"	SAS 12Gb/s	1.2TB	10K	A380	512e
		HUC101890CS4200	OB27975	2.5"	SAS 12Gb/s	900GB	10K	A380	512e

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		HUC101860CS4200	OB27974	2.5"	SAS 12Gb/s	600GB	10K	A380	512e
		HUC101845CS4200	OB27973	2.5"	SAS 12Gb/s	450GB	10K	A380	512e
		HUC101812CSS200	OB28807	2.5"	SAS 12Gb/s	1.2TB	10K	A904	512n
		HUC101890CSS200	OB27976	2.5"	SAS 12Gb/s	900GB	10K	A904	512n
		HUC101860CSS200	0B28808	2.5"	SAS 12Gb/s	600GB	10K	A904	512n
		HUC101830CSS200	0B28810	2.5"	SAS 12Gb/s	300GB	10K	A904	512n
	Ultrastar 7K6000	HUS726060AL5210	OF22791	3.5"	SAS 12Gb/s	6TB	7200	A907	512e
		HUS726050AL5210	OF22793	3.5"	SAS 12Gb/s	5TB	7200	A907	512e
		HUS726040AL5210	OF22795	3.5"	SAS 12Gb/s	4TB	7200	A907	512e
		HUS726020AL5210	OF22799	3.5"	SAS 12Gb/s	2TB	7200	A907	512e
		HUS726040AL5215	0F22825	3.5"	SAS 12Gb/s	4TB	7200	D907	512e
	Ultrastar He6	HUS726060ALS640	OF18370	3.5"	SAS 6Gb/s	6TB	7200	T1E2	512n
	Ultrastar He10	HUH721010AL5200	0F27352	3.5"	SAS 12Gb/s	10TB	7200	A21D	512e
		HUH721008AL5200	0F27356	3.5'	SAS 12Gb/s	8TB	7200	A21D	512e
	Ultrastar He12	HUH721212AL5200	0F29530	3.5"	12Gb/s SAS	12TB	7200	A3D0	512e
	Ultrastar He8	HUH728080AL5200	0F23268	3.5"	SAS 12Gb/s	8TB	7200	A907	512e
		HUH728060AL5200	0F23270	3.5"	SAS 12Gb/s	6TB	7200	A907	512e
Seagate	Enterprise Capacity 3.5 v5	ST6000NM0095	1Y2210—002	3.5"	SAS 12Gb/s	6TB	7200	E002	512e
		ST4000NM0025	1V4207-002	3.5"	SAS 12Gb/s	4TB	7200	N002	512n
		ST3000NM0025	1V420N-002	3.5"	SAS 12Gb/s	3TB	7200	N002	512n
	Enterprise Capacity 3.5 v5 SED	ST4000NM0135	2AR207-002	3.5"	SAS 12Gb/s	4TB	7200	NF02	512n
	Enterprise Capacity 2.5 HDD v3	ST2000NX0273	1FM201-002	2.5"	SAS 12Gb/s	2TB	7200	E004	512e
		ST1000NX0333	1FN201-002	2.5"	SAS 12Gb/s	1TB	7200	E004	512e
	Enterprise Capacity	ST6000NM0034	1HT27Z-001	3.5"	SAS 12Gb/s	6TB	7200	E001	512e
		ST5000NM0034	1HT270-001	3.5"	SAS 12Gb/s	5TB	7200	E001	512e
		ST4000NM0034	1HT278-001	3.5"	SAS 12Gb/s	4TB	7200	E001	512e
		ST2000NM0034	1HT274-001	3.5"	SAS 12Gb/s	2TB	7200	E001	512e
	Enterprise Performance 10K	ST1200MM0007	1DA200-003	2.5"	SAS 6Gb/s	1.2TB	10K	1	512n
		ST1200MM0088	1FF200-003	2.5"	12Gb/s SAS	1.2TB	10K	N003	512n
		ST600MM0088	1FD200-004	2.5"	12Gb/s SAS	600GB	10K	N003	512n
	Cheetah 15K.7 。@	ST3600057SS	9FS066-008	3.5"	SAS 6Gb/s	600GB	15K	0008	512n
		。@ST3300657SS	9FL066-009	3.5"	SAS 6Gb/s	。@300GB	。@15K	0008	512n
	ES.3	ST4000NM0023	9ZM270-001	3.5"	SAS 6Gb/s	4TB	7200	SN02	512n

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		ST3000NM0023	9ZM278-001	3.5"	SAS 6Gb/s	3TB	7200	SN02	512n
		ST2000NM0023	9ZM275-001	3.5"	SAS 6Gb/s	2TB	7200	SN02	512n
		ST1000NM0023	9ZM273-001	3.5"	SAS 6Gb/s	1TB	7200	SN02	512n
Toshiba	Tomcat	MG04SCA500E	HDEPE10GEA51	3.5"	SAS 6Gb/s	5TB	7200	102	512e
		MG04SCA400E	HDEPE11GEA51	3.5"	SAS 6Gb/s	4TB	7200	102	512e
		MG04SCA300E	HDEPE12GEA51	3.5"	SAS 6Gb/s	3TB	7200	102	512e
		MG04SCA200E	HDEPE13GEA51	3.5"	SAS 6Gb/s	2TB	7200	102	512e
	Enterprise Capacity (Tomcat-R)	MG04SCA60EE	HDEPF10GDA51	3.5"	SAS 12Gb/s	6TB	7200	0901	512e
		MG04SCA50EE	HDEPF11GDA51	3.5"	SAS 12Gb/s	5TB	7200	0901	512e
		MG04SCA40EE	HDEPF12GDA51	3.5"	SAS 12Gb/s	4TB	7200	0901	512e
		MG04SCA20EE	HDEPF14GDA51	3.5"	SAS 12Gb/s	2TB	7200	0901	512e
		MG04SCA40EN	HDEPF02GDA51	3.5"	SAS 12Gb/s	4TB	7200	0901	512n
		MG04SCA20EN	HDEPF04GDA51	3.5"	SAS 12Gb/s	2TB	7200	0901	512n
Toshiba	Enterprise Performance	AL14SEB18EQ	HDEBJ10GEA51	2.5"	SAS 12Gb/s	1.8TB	10000	0102	512e
		AL14SEB12EQ	HDEBJ11GEA51	2.5"	SAS 12Gb/s	1.2TB	10000	0102	512e
		AL14SEB09EQ	HDEBJ12GEA51	2.5"	SAS 12Gb/s	900GB	10000	0102	512e
		AL14SEB06EQ	HDEBJ13GEA51	2.5"	SAS 12Gb/s	600GB	10000	0102	512e

*** Drives with 4Kn formatting listed here below are not supported when the J5000 is attached to a Promise A-Class or Promise E830 or E630 or E5000 series.**

Vendor	Series	Model	P/N	Size	Interface	Capacity	Spindle Speed (RPM)	F/W ver.	Format
Seagate	Enterprise Capacity	ST6000NM0014*	1FT27Z-005	3.5"	SAS 12Gb/s	6TB	7200	K001	4Kn*
HGST	Ultrastar 7K6000	HUS726060AL4210*	OF22790	3.5"	SAS 12Gb/s	6TB	7200	A519	4Kn*
		HUS726050AL4210*	OF22792	3.5"	SAS 12Gb/s	5TB	7200	A519	4Kn*
		HUS726040AL4210*	OF22794	3.5"	SAS 12Gb/s	4TB	7200	A519	4Kn*
		HUS726020AL4210*	OF22798	3.5"	SAS 12Gb/s	2TB	7200	A519	4Kn*

SATA Drives

Vendor	Series	Model	P/N	Size	Interface	Capacity	Spindle Speed (RPM)	F/W version	Format
HGST	MegaScale DC™ 4000.B	HMS5C4040BLE640	OF22146	3.5"	SATA 6Gb/s	4TB	Coolspin™	5D0	512e
	Ultrastar 7K2000	HUA722010CLA330	0A39289	3.5”	SATA 6Gb/s	1TB	7200	A3EA	512e
	Ultrastar He8	HUH728080ALE600	0F23267	3.5"	SATA 6Gb/s	8TB	7200	T907	512e
		HUH728060ALE600	0F23269	3.5"	SATA 6Gb/s	6TB	7200	T907	512e

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	Ultrastar He6	HUS726060ALA640	OF18335	3.5"	SATA 6Gb/s	6TB	7200	A1E2	512n
	Ultrastar 7K6000	HUS726060ALE610	0F23001	3.5"	SATA 6Gb/s	6TB	7200	T907	512e
		HUS726050ALE610	0F23003	3.5"	SATA 6Gb/s	5TB	7200	T907	512e
		HUS726040ALE610	0F23005	3.5"	SATA 6Gb/s	4TB	7200	T907	512e
		HUS726020ALE610	0F23009	3.5"	SATA 6Gb/s	2TB	7200	T907	512e
SEAGATE	V.4	ST6000NM0024	1HT17Z-001	3.5"	SATA 6Gb/s	6TB	7200	SN02	512e
		ST5000NM0024	1HT170-500	3.5"	SATA 6Gb/s	5TB	7200	SN02	512e
		ST4000NM0024	1HT178-001	3.5"	SATA 6Gb/s	4TB	7200	SN02	512e
		ST2000NM0024	1HT174-001	3.5"	SATA 6Gb/s	2TB	7200	SN02	512e
	Enterprise Capacity 3.5 HDD v5	ST8000NM0055	1RM112-001	3.5”	SATA 6Gb/s	8TB	7200	SN01	512e
	Enterprise Capacity 3.5 HDD v6	ST10000NM0016	1TT101-002	3.5”	SATA 6Gb/s	10TB	7200	SNC0	512e
TOSHIBA	Capacity HDD-MG04	MG04ACA600E	HDEPS1OGEA51	3.5"	SATA 6Gb/s	6TB	7200	FP2A	512e
		MG04ACA500E	HDERR10GEA51	3.5"	SATA 6Gb/s	5TB	7200	FP2A	512e
		MG04ACA400E	HDERR12GEA51	3.5"	SATA 6Gb/s	4TB	7200	FP2A	512e
		MG04ACA200E	HDERR13GEA51	3.5"	SATA 6Gb/s	2TB	7200	FP2A	512e
	Capacity HDD-MG07	MG07ACA12TE	HDEPW11GEA51	3.5"	SATA 6Gb/s	12TB	7200	101	512e
		MG07ACA14TE	HDEPW10GEA51	3.5"	SATA 6Gb/s	14TB	7200	101	512e
WD	SE	WD4000F9YZ	WD4000F9YZ-09N20L0	3.5"	SATA 6Gb/s	4TB	7200	VR04	512e
		WD3000F9YZ	WD3000F9YZ-09N20L0	3.5"	SATA 6Gb/s	3TB	7200	VR04	512e
		WD2000F9YZ	WD2000F9YZ-09N20L0	3.5"	SATA 6Gb/s	2TB	7200	VR04	512e
		WD1000F9YZ	WD1000F9YZ-09N20L0	3.5"	SATA 6Gb/s	1TB	7200	VR04	512e

SSD Drives

Brand	Series	Model	P/N	Interface	Capacity	F/W version	Type
HGST	**Ultrastar SSD1600MM**	HUSMM1616ASS204 HUSMM1616ASS200 HUSMM1616ASS201 HUSMM1616ASS205	0B32167 0B31068 0B32143 0B32188	12Gb/s SAS	1.6TB	A290	MLC
		HUSMM1680ASS204 HUSMM1680ASS200 HUSMM1680ASS201 HUSMM1680ASS205	0B32166 0B31067 0B32146 0B32187	12Gb/s SAS	800GB	A290	MLC
		HUSMM1640ASS204 HUSMM1640ASS200 HUSMM1640ASS201 HUSMM1640ASS205	0B32165 0B31066 0B32145 0B32186	12Gb/s SAS	400GB	A290	MLC
		HUSMM1620ASS204 HUSMM1620ASS200 HUSMM1620ASS201 HUSMM1620ASS205	0B32164 0B31065 0B32144 0B32185	12Gb/s SAS	200GB	A290	MLC
Crucial	**MX300**	CT1050MX300SSD1	CT1050MX300SSD1	6Gb/s SATA	1TB	M0CR060	TLC

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	MX200	CT1000MX200SSD1	CT1000MX200SSD1	6Gb/s SATA	1TB	MU01	MLC
		CT500MX200SSD1	CT500MX200SSD1	6Gb/s SATA	500GB	MU01	MLC
		CT250MX200SSD1	CT250MX200SSD1	6Gb/s SATA	250GB	MU01	MLC
Micron	S650DC	MTFDJAK800MBS	MTFDJAK800MBS-2AN1ZAB	12Gb/s SAS	800GB	M017	MLC
	M600	MTFDDAK1T0MBF-1AN12 MTFDDAK1T0MBF-1AN1Z	MTFDDAK1T0MBF-1AN12 MTFDDAK1T0MBF-1AN1Z	6Gb/s SATA	1TB	MU03	MLC
		MTFDDAK512MBF-1AN1Z MTFDDAK512MBF-1AN12	MTFDDAK512MBF-1AN1Z MTFDDAK512MBF-1AN12	6Gb/s SATA	512GB	MU03	MLC
		MTFDDAK256MBF-1AN1Z MTFDDAK256MBF-1AN12	MTFDDAK256MBF-1AN1Z MTFDDAK256MBF-1AN12	6Gb/s SATA	256GB	MU03	MLC
		MTFDDAK128MBF-1AN12 MTFDDAK128MBF-1AN1Z	MTFDDAK128MBF-1AN12 MTFDDAK128MBF-1AN1Z	6Gb/s SATA	128GB	MU03	MLC
	M550	MTFDDAK1T0MAY	MTFDDAK1T0MAY	6Gb/s SATA	1TB	MU02	MLC
		MTFDDAK512MAY	MTFDDAK512MAY	6Gb/s SATA	512GB	MU02	MLC
		MTFDDAK256MAY	MTFDDAK256MAY	6Gb/s SATA	256GB	MU02	MLC
		MTFDDAK128MAY	MTFDDAK128MAY	6Gb/s SATA	128GB	MU02	MLC
		MTFDDAK064MAY	MTFDDAK064MAY	6Gb/s SATA	64GB	MU02	MLC
	M510DC	MTFDDAK960MBP	M1EDDAK960MBP-1AN1ZAB	6Gb/s SATA	960GB	0013	MLC
	M1100	MTFDDAK2T0TBN	MTFDDAK2T0TBN-1AR1ZAB	6Gb/s SATA	2048GB	MU011	3D TLC
	5100	MTFDDAK240TCB	MTFDDAK240TCB-1AR1ZAB	6Gb/s SATA	240GB	MU021	3D TLC
		MTFDDAK480TCB	MTFDDAK480TCB-1AR1ZAB	6Gb/s SATA	480GB	MU021	3D TLC
		MTFDDAK960TCB	MTFDDAK960CB-1AR1ZAB	6Gb/s SATA	960GB	MU021	3D TLC
		MTFDDAK1T9TCB	MTFDDAK1T9TCB-1AR1ZAB	6Gb/s SATA	1920GB	MU021	3D TLC
		MTFDDAK3T8TCB	MTFDDAK3T8TCB-1AR1ZAB	6Gb/s SATA	3840GB	MU021	3D TLC
Intel	320 Series	SSDSA2CW120G3	SSDSA2CW120G3	3Gb/s SATA	120GB	362	MLC
		SSDSA2CW300G3	SSDSA2CW300G3	3Gb/s SATA	300GB	362	MLC
	X25-M Series	SSDSA2M160G2GN	SSDSA2M160G2GN	3Gb/s SATA	160	02M3	MLC
	S3610	SSDSC2BX180G4	SSDSC2BX180G4	6Gb/s SATA	1.6TB	110	MLC
		SSDSC2BX120G4	SSDSC2BX120G4	6Gb/s SATA	1.2TB	110	MLC
		SSDSC2BX800G4	SSDSC2BX800G4	6Gb/s SATA	800GB	110	MLC
		SSDSC2BX400G4	SSDSC2BX400G4	6Gb/s SATA	400GB	110	MLC

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		SSDSC2BX200G4	SSDSC2BX200G4	6Gb/s SATA	200GB	110	MLC
Toshiba	**Hawk M4**	THNSN8200PCSE ET	205E6718	6Gb/s SATA	200GB	6101	MLC
Samsung	**850 EVO**	SSD 850 PRO 1TB MZ-7KE1T0BW	SSD 850 PRO 1TB MZ-7KE1T0BW	6Gb/s SATA	1TB	EXM04B6Q	V-NAND
Samsung	**SM863T**	MZ7KM480HAHP-0E005	MZ7KM480HAHP-0E005	6Gb/s SATA	480GB	003Q	MLC
		MZ7KM960HAHP-0E005	MZ7KM960HAHP-0E005	6Gb/s SATA	960GB	003Q	MLC
Seagate	**XF1230**	XF1230 -101920	2BY172-380	6Gb/s SATA	1920GB	354	eMLC

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