VTrak Ex30 SR6.2 Compatibility List v1.06

Ex30 Firmware 10.17.2270.00

Updated 07/19/2016

Supports 6.2 Service Releases and later
Date of SR6.2 Service Release: 11/06/2015

VTrak Systems Covered:

- **VTrak E630f** – 3U/16-bay 8Gb Fibre to 6Gbs SAS/SATA RAID System
- **VTrakE830f** – 4U/24-bay 8Gbs SAS to 6Gbs SAS/SATA RAID System
- **VTrakJ630s** – 3U/16-bay 3Gbs SAS to 6Gbs SAS/SATA Expansion JBOD System
- **VTrakJ830s** – 4U/24-bay 6Gbs SAS to 6Gbs SAS/SATA Expansion JBOD System
- **VTrakJ930s** – 4U/60-bay 6Gbs SAS to 6Gbs SAS Expansion JBOD System
- **VTrak J5000** – 2U, 3U and 4U SAS to 12Gbs SAS Expansion JBOD Systems at 6Gbs

System Versions Covered:

- **VTrakEx30 BootLoader** – Version 0.19.0000.37 [Sep 26, 2014]
- **VTrakEx30 Firmware** – Version 10.17.2270.00 [Nov 5, 2015]
- **VTrak Ex30 Software** – Version 10.17.2270.00 [Nov 5, 2015]
- **6Gbs VTrak Jx30s Firmware** – Version 6.14.0000.05 [Apr 06, 2014]
- **6Gbs J930 Firmware** – Version 5.10.0000.01 [Dec22, 2015]
- **12Gbs J5000 Firmware** – Version 1.00.0000.63[Nov17, 2015]
- **Windows PerfectPath MPIO DSM** – Version 4.01.0000.08
- **Linux PerfectPath MPIO DSM** – Version 0.00.0000.09

Promise Technology, Inc. © 2016 Promise Technology, Inc. All rights reserved.

Document History

Date	Editor	Revision	Deviation
11/6/2015	R Brose	1.00	1. Initial SR6.2 Release
02/11/2016	R Brose	1.01	2. Add Brocade 6505, SG ES.3 and Toshiba Tomcat AV Qual, 7K6000 AV Qual, Added J5000 in front page
04/08/2016	J Buntrock	1.03	3. Added Toshiba THNSN8200PCSE ET SSD SATA and Seagate ST1200MM0088 10K SAS EX30+J5320 Drive Qual
04/21/2016	J Buntrock	1.04	4. Added Micron S650DC and HGST He8 Drives.
04/22/2016	J Buntrock	1.05	5. Added Drives, fixed format and typos.
07/19/2016	F Londono	1.06	6. Fixed Toshiba model number , added Seagate and HGST drives

DEVICE COMPATIBILITY NOTE:

Basic compatibility between the 3rd party device and Promise device has been verified in typical configurations, unless otherwise stated. For 3rd party products not on this list it is not implied that they are incompatible just not tested.

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.

Although Promise Technology has attempted to ensure the accuracy of the content of this document; it is possible that this document may contain technical inaccuracies, typographical, or other errors. Promise Technology assumes no liability for any error in this publication, and for damages, whether direct, indirect, incidental, and consequential or otherwise, that may result from such error, including, but not limited to loss of data or profits.

Promise Technology provides this publication “as is” without warranty of any kind, either express or implied, including, but not limited to implied warranties of merchantability or fitness for a particular purpose. The published information in the manual is subject to change without notice. Promise Technology reserves the right to make changes in the product design, layout, and driver revisions without notification to its users. This version of this document supersedes all previous versions.

Promise Technology, Inc. © 2016 Promise Technology, Inc. All rights reserved.

Operating Systems

Supported Operating Environments			
Vendor	**Core Platform**	**Type**	**Notes**
Microsoft	Windows Server 2008 R2	x64	ALUA support with PerfectPath v4.1.0.8
	Windows Server 2012 R2	x64	ALUA support with PerfectPath v4.1.0.8
	Hyper-V Server 2012*	x64	
Macintosh	OS X 10.9	x64	LUN Affinity/ALUA natively supported.
	OS X 10.10	x64	LUN Affinity/ALUA natively supported.
	OS X 10.11	x64	LUN Affinity/ALUA natively supported.
RedHat	RHEL 6.4	x64	ALUA support with PerfectPath v0.0.0.9
	RHEL 6.6 (2.6.32-504.el6.x86_64)	x64	ALUA support with PerfectPath v0.0.0.9
	RHEL 6.6 with Lustre 2.7 Filesystem	x64	ALUA support with PerfectPath v0.0.0.9
SUSE	SLES 11 sp2(3.0.13-0.27-default)	x64	ALUA support with PerfectPath v0.0.0.9
	SLES 11 sp3(3.0.101-0.8 x86_64)	x64	ALUA support with PerfectPath v0.0.0.9
VMware	ESX Server v6.0**	x64	LUN Affinity/ALUA natively supported

*Fully Supported but not HCK certified
**VMware Certified

Fibre Channel Switches and SFPs

Fibre Channel Switches				
Vendor	**Model**	**Ports**	**Firmware**	**Full test this release**
Brocade	Brocade 300**	24x8Gb	V7.3.1	
	Brocade 5100	40x8Gb	V7.3.1	
	Brocade 6505	24x16Gb	V7.3.1	
	Brocade 6510	40x16Gb	V7.3.1	
	Brocade 8000	24x10Gb FCoE8x8Gb FC	V7.1.2b	x
	Brocade VDX6740	48 FCoE/16Gb FC	5.0.1	x
Cisco	MDS 9148 (BIOS 1.0.19)	48x8Gb	V6.2(3)	x
	MDS 9124*	24x8Gb	V6.2(3)	x
	NEXUS 5010	20x10Gb FCoE/iSCSI6x8Gb FC	V5.2(1)N1(2a)	
QLogic	SANbox 5802V	20x8Gb	v8.0.14.13.00	x
	SANbox 9000 - 8Gb blade	32-128x8Gb	v7.8.0.18.00	

*Model MDS 9124 compatibility is derived from MDS 9148 testing with v6.2
** Leave the Brocade 300 speed set to "Auto" when the topology is set to "L- Port". Set the Target side speed to match either 4G or 8G if the topology is set to "NL-Port".

Promise Technology, Inc. © 2016 Promise Technology, Inc. All rights reserved.

SFP Interoperability Matrix (Shortwave)		
Vendor	**Model**	**Description**
Apple	4Gb SFP to SFP	2.9M 4Gb SFP Copper Cable (Qlogic 4Gb and 8Gb only)
Avago	AFBR-57D7APZ	Digital Diagnostic SFP, 850 nm, 8.5/4.25/2.125 GBd Low Voltage (3.3 V) - 85°C
Brocade	57-1000012-01	Brocade 8Gb Shortwave SFP
Cisco	DS-SFP-FC8G-SW	Cisco 8Gb Shortwave SFP
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
	FTLF8524P2BNL	Digital Diagnostic SFP, 850 nm, 4.25/2.125 GBd Low Voltage (3.3 V) - 70°C
	FTLF8524P2BNV	Digital Diagnostic SFP, 850 nm, 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

Fibre Channel Host Bus Adapters

Vendor	Model	BIOS	Firmware	Fcode	Linux	Windows	Macintosh	Full test this release
Brocade	FC425	v3.0.1.0	v3.2.4.0		v3.2.4.0	v3.2.4.0	NA	
	FC825	v3.0.1.0	v3.2.5.0 & 1		v3.2.5.1	v3.2.5.0	NA	x
Emulex	LightPulse LPe12000	5.03a0	2.01A11	3.10a6		10.4.246.0	NA	x
	LightPulse LPe12002	5.03a0	2.01A11	3.10a6		10.4.246.0	NA	x
	LightPulse LPe12004	5.03a0	2.01A11	3.10a6		10.4.246.0	NA	x
	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	
Qlogic	SANblade QLE2562	3.24			8.07.00.18.06.0(RHEL)		NA	x
	SANblade QLE2564	3.24	7.04.00		8.07.00.18.11.3k(SLES11 SP3)	9.1.13.20	NA	x
			7.04.00			9.1.13.20		
LSI	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	
ATTO	Celerity FC84EN	02/28/13	06..01.00		1.90	1.80	2.40	x
	Celerity FC82EN	02/28/13	06.01.00		1.90	1.80	2.40	x
	Celerity FC42ES	3.25	3.35			1.70	2.35	
Promise	SANLink2		1.1.0.58				1.0.46	

Promise Technology, Inc. © 2016 Promise Technology, Inc. All rights reserved.

SAS Cables

Promise PN	Vendor	Vendor PN	Round Cable.200cm.6Pin.DB9/F=>RJ11.Black
G51130261000008	Jess Link	P1600TE01000-A	GP1100.CABLE.external Mini-SAS key 1/2/4/6 to external Mini-SAS cable key 1/2/4/6.1M.26Pin.Universal key.JPC:P1600TE01000-A

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

Hard Disk Drives

SAS Drives

VTrak Ex30 and Jx30 Drive Compatibility List

Vendor	Family	Model	Part Number	Firmware	Capacity	RPM	Interface
HGST	Ultrastar He10	HUH721010AL5200	0F27352	A21D	10TB	7,200	12Gb/s SAS
	Ultrastar He8	HUH728080AL5200	0F23268	A7J0	8TB	7,200	12Gb/s SAS
		HUH728060AL5200	0F23270	A7J0	6TB	7,200	12Gb/s SAS
	Ultrastar He6	HUS726060ALS640	0F18370	A280	6TB	7,200	6Gb/s SAS
	Ultrastar 7K6000 (AV Qualified)	HUS726060AL5210	0F22791	A7J0	6TB	7,200	12Gb/s SAS
		HUS726050AL5210	0F22793	A7J0	5TB	7,200	12Gb/s SAS
		HUS726040AL5210	0F22795	A7J0	4TB	7,200	12Gb/s SAS
		HUS726020AL5210	0F22799	A7J0	2TB	7,200	12Gb/s SAS
	Ultrastar 7K4000 (AV Qualified)	HUS724040ALS640	HIT0B26885	A3A0	4TB	7,200	6Gb/s SAS
		HUS724030ALS640	HIT0B26886	A3A0	3TB	7,200	6Gb/s SAS
		HUS724020ALS640	HIT0B26887	A3A0	2TB	7,200	6Gb/s SAS
	Ultrastar 7K3000	HUS723030ALS640	0B26311	A352	3TB	7,200	6Gb/s SAS
		HUS723020ALS640	0B26312	A352	2TB	7,200	6Gb/s SAS
	Ultrastar C10K1800	HUC101818CS4200	0B27978	A380	1.8TB	10,000	12Gb/s SAS
		HUC101812CS4200	0B27977	A380	1.2TB	10,000	12Gb/s SAS
		HUC101890CS4200	0B27975	A380	900GB	10,000	12Gb/s SAS
		HUC101860CS4200	0B27974	A380	600GB	10,000	12Gb/s SAS
		HUC101845CS4200	0B27973	A380	450GB	10,000	12Gb/s SAS

Promise Technology, Inc. © 2016 Promise Technology, Inc. All rights reserved.

	C15K600	HUC156060CSS200	0B28953	A3F0	600GB	15,000	12Gb/s SAS
		HUC156045CSS200	0B28954	A3F0	450GB	15,000	12Gb/s SAS
		HUC156030CSS200	0B28955	A3F0	300GB	15,000	12Gb/s SAS
Seagate	**Enterprise Capacity 3.5 v5**	ST4000NM0025	1V4207-002	N002	4TB	7,200	12Gb/s SAS
		ST3000NM0025	1V420N-002	N002	3TB	7,200	12Gb/s SAS
	SED	ST4000NM0135	2AR207-002	NF02	4TB	7,200	12Gb/s SAS
	Constellation ES.3	ST6000NM0034	1HT27Z-001	SN02	6TB	7,200	12Gb/s SAS
		ST5000NM0034	1HT270-001	SN02	5TB	7,200	12Gb/s SAS
		ST4000NM0034	1HT278-001	SN02	4TB	7,200	12Gb/s SAS
		ST2000NM0034	1HT274-001	SN02	2TB	7,200	12Gb/s SAS
	Constellation ES.3 (AV Qualified)	ST4000NM0023	9ZM270-001	0004	4TB	7,200	6Gb/s SAS
		ST3000NM0023	9ZM278-001	0004	3TB	7,200	6Gb/s SAS
		ST2000NM0023	9ZM275-001	0004	2TB	7,200	6Gb/s SAS
		ST1000NM0023	9ZM273-001	0004	1TB	7,200	6Gb/s SAS
	Constellation ES.2	ST33000650SS	9SM260-002	0003	3TB	7,200	6Gb/s SAS
		ST32000645SS	9SM267-005	0004	2TB	7,200	6Gb/s SAS
	Cheetah 15K.7	ST3600057SS	9FS066-008	0008	600GB	15,000	6Gb/s SAS
		ST3450857SS	9FR066-008	0008	450GB	15,000	6Gb/s SAS
	Enterprise Performance 10K	ST1200MM0088	1FF200-003	N003	1.2TB	10,000	12Gb/s SAS
		ST600MM0088	1FD200-004	N003	600GB	10,000	12Gb/s SAS
Western Digital	**WD RE SAS (AV Qualified)**	WD4001FYYG	WD4001FYYG-01SL3W0	VR07	4TB	7,200	6Gb/s SAS
		WD3001FYYG	WD3001FYYG-01SL3W0	VR07	3TB	7,200	6Gb/s SAS
		WD3001FYYG	WD2001FYYG-01SL3W0	VR07	2TB	7,200	6Gb/s SAS
		WD3001FYYG	WD1001FYYG-01SL3W0	VR07	1TB	7,200	6Gb/s SAS
	XE	WD9001BKHG	WD9001BKHG-02D22V1	SR04	1TB	7,200	6Gb/s SAS
Toshiba	**Tomcat +**	MG04SCA60EE	HDEPF10GEA51	102	6TB	7,200	12Gb/s SAS
		MG04SCA50EE	HDEPF11GEA51	102	5TB	7,200	12Gb/s SAS
		MG04SCA40EE	HDEPF12GEA51	102	4TB	7,200	12Gb/s SAS
		MG04SCA20EE	HDEPF14GEA51	102	2TB	7,200	12Gb/s SAS
	Tomcat (AV Qualified)	MG04SCA500E	HDEPE10GEA51	103	5TB	7,200	6Gb/s SAS
		MG04SCA400E	HDEPE11GEA51	103	4TB	7,200	6Gb/s SAS
		MG04SCA300E	HDEPE12GEA51	103	3TB	7,200	6Gb/s SAS
		MG04SCA200E	HDEPE13GEA51	103	2TB	7,200	6Gb/s SAS
	Mustang	MK1001TRKB	MK1001TRKB	105	1TB	7,200	6Gb/s SAS
		MK2001TRKB	MK2001TRKB	105	2TB	7,200	6Gb/s SAS
	Harrier (AV Qualified)	MG03SCA400	MG03SCA400	108	4TB	7,200	6Gb/s SAS
		MG03SCA300	MG03SCA300	108	3TB	7,200	6Gb/s SAS

Promise Technology, Inc. © 2016 Promise Technology, Inc. All rights reserved.

		MG03SCA200	MG03SCA200	108	2TB	7,200	6Gb/s SAS
		MG03SCA100	MG03SCA100	108	1TB	7,200	6Gb/s SAS

*12G/s SAS drives (SAS3) may require a 12G SAS dongle board to be added (Contact Promise Technology for information)

"AV Qualified" Drives have gone through additional testing to assure consistent performance under Audio Video load conditions.

SATA Drives

Not supported on J930s

VTrak Ex30 and Jx30 Drive Compatibility List							
Vendor	**Family**	**Model**	**Part Number**	**Firmware**	**Capacity**	**RPM**	**Interface**
HGST	**Ultrastar 7K6000**	HUS726060ALE610	0F23001	T7J0	6TB	7200	6Gb/s SATA
		HUS726050ALE610	0F23003	T7J0	5TB	7200	6Gb/s SATA
		HUS726040ALE610	0F23005	T7J0	4TB	7200	6Gb/s SATA
		HUS726020ALE610	0F23009	T7J0	2TB	7200	6Gb/s SATA
	Ultrastar 7K4000	HUS724040ALE640	0F14683	A580	4TB	7,200	6Gb/s SATA
		HUS724030ALE640	0F14684	A580	3TB	7,200	6Gb/s SATA
		HUS724020ALE640	0F14685	A580	2TB	7,200	6Gb/s SATA
	Ultrastar 7K3000	HUA723020ALA640	0F12455	5C0	2TB	7,200	6Gb/s SATA
		HUA723030ALA640	0F12456	5C0	3TB	7,200	6Gb/s SATA
	Ultrastar A7K2000	HUA722020ALA330	0F10452	3EA	2TB	7,200	3Gb/s SATA
		HUA722010CLA330	0A39289	3EA	1TB	7,200	3Gb/s SATA
		HUA722050CLA330	0F11000	3EA	500GB	7,200	3Gb/s SATA
	Megascale	HMS5C4040BLE640	0F22146	A500	4TB	5,700	6Gb/s SATA
	Ultrastar He6	HUS726060ALA640	0F18335	A1E2	6TB	7,200	6Gb/s SATA
Western Digital	**WD Eiger RE**	WD6001FSYZ	WD6001FSYZ-01SS7B1	ER02	6TB	7,200	6Gb/s SATA
		WD5001FSYZ	WD5001FSYZ-01SS7B1	ER02	5TB	7,200	6Gb/s SATA
	RAID Edition 4	WD2003FYYS	WD2003FYYS-02W0B0	1D01	2TB	7,200	6Gb/s SATA
		WD1503FYYS	WD1503FYYS-02W0B0	1D01	1.5TB	7,200	6Gb/s SATA
	WD RE SATA	WD4000FYYZ	WD4000FYYZ-01UL1B1	1K02	4TB	7,200	6Gb/s SATA
		WD3000FYYZ	WD3000FYYZ-01UL1B1	1K02	3TB	7,200	6Gb/s SATA
		WD2000FYYZ	WD2000FYYZ-01UL1B1	1K02	2TB	7,200	6Gb/s SATA
	WD SE SATA	WD4000F9YZ	WD4000F9YZ-09N20L0	1A01	4TB	7,200	6Gb/s SATA
		WD4000F9YZ	WD3000F9YZ-09N20L0	1A01	3TB	7,200	6Gb/s SATA
		WD4000F9YZ	WD2000F9YZ-09N20L0	1A01	2TB	7,200	6Gb/s SATA
Toshiba		MK1002TSKB	HDD3B04CZK51	MT2A	1TB	7,200	6Gb/s SATA

Promise Technology, Inc. © 2016 Promise Technology, Inc. All rights reserved.

		MK2002TSKB	MK2002TSKB	MT2A	2TB	7,200	6Gb/s SATA
	Tomcat+	MG04ACA600E	HDEPS10GEA51F	FS2B	6TB	7,200	6Gb/s SATA
		MG04ACA500E	HDEPS11GEA51F	FS2B	5TB	7,200	6Gb/s SATA
	Tomcat	MG04ACA500E	HDERR10GEA51	FP2A	5TB	7,200	6Gb/s SATA
		MG04ACA400E	HDERR12GEA51	FP2A	4TB	7,200	6Gb/s SATA
		MG04ACA300E	HDERR12GEA51	FP2A	3TB	7,200	6Gb/s SATA
		MG04ACA200E	HDERR13GEA51	FP2A	2TB	7,200	6Gb/s SATA
	Harrier**	MG03ACA400	HDEPQ00GEA51	FL1A	4TB	7,200	6Gb/s SATA
		MG03ACA300	HDEPQ01GEA51	FL1A	3TB	7,200	6Gb/s SATA
		MG03ACA200	HDEPQ02GEA51	FL1A	2TB	7,200	6Gb/s SATA
		MG03ACA100	HDEPQ03GEA51	FL1A	1TB	7,200	6Gb/s SATA
Seagate	**Constellation ES.3**	ST6000NM0024	1HT17Z-001	SN02	6TB	7,200	6Gb/s SATA
		ST5000NM0024	1HT170-500	SN02	5TB	7,200	6Gb/s SATA
		ST4000NM0024	1HT178-001	SN02	4TB	7,200	6Gb/s SATA
		ST2000NM0024	1HT174-001	SN02	2TB	7,200	6Gb/s SATA
	V5	ST8000NM0055	1RM112	SN01	8TB	7200	6Gb/s SATA
	TerraScale	ST4000NC000	1FR168-002	CE02	4TB	5,900	6GB/s SATA
		ST3000NC000	1CX166-003	CE02	3TB	7,200	6GB/s SATA
		ST2000NC000	1CX164-003	CE02	2TB	7,200	6GB/s SATA
		ST1000NC000	1CX162-003	CE02	1TB	7,200	6GB/s SATA

**At time of printing basic compatibility testing is complete

SSD Drives with TRIM/Unmap Support

(Note:SSD'sare not supported on the Promise J930)

The following drives have an SSD Trim Type of DZAT (also calledRZAT).
They been tested with the Promise Ex30 supported releases SR6 (FW 10.15.2270.00) and later.
Testing has been done with Microsoft Windows Server 2012 and RedHat RHEL 6.6.
Mac OSX currently doesn't support TRIM for SAS devices - which are how all LUNs are presented by the EX30.

VTrak Ex30 and Jx30 Drive Compatibility List							
Vendor	**Family**	**Model**	**Part Number**	**Firmware**	**Capacity**	**Type**	**Interface**
Micron	**M550**	MTFDDAK1T0MAY		MU02	1TB	MLC	6Gb/s SATA
		MTFDDAK512MAY		MU02	512GB	MLC	6Gb/s SATA
		MTFDDAK256MAY		MU02	256GB	MLC	6Gb/s SATA

Promise Technology, Inc. © 2016 Promise Technology, Inc. All rights reserved.

		MTFDDAK128MAY		MU02	128GB	MLC	6Gb/s SATA
		MTFDDAK064MAY		MU02	64GB	MLC	6Gb/s SATA
	S650DC	MTFDJAK800MBS	MTFDJAK800MBS-2AN1ZAB	M013	800GB	MLC	12Gb/s SAS
		MTFDJAK400MBS	MTFDJAK400MBS-2AN1ZAB	M013	400GB	MLC	12Gb/s SAS
Intel	**320 Series**	SSDSA2CW120G3		0362	120GB	MLC	3Gb/s SATA
		SSDSA2CW300G3		0362	300GB	MLC	3Gb/s SATA
	X25-M Series	SSDSA2M160G2GN		02M3	160GB	MLC	3Gb/s SATA
Toshiba	**HAWK M4 SSD**	THNSN8200PCSE ET	205E6718	6101	200GB	MLC	6Gb/s SATA

SSD Drives that don't support TRIM/SCSI Unmap or have Failed TRIM testing.

(Note: SSD's are not supported on the Promise J930)

IMPORTANT: If you are using ANY drives from this list in the system, you need to set the EX30 controller setting for SSD Trim to "disabled". This will treat ANY and ALL drives, SSD or HDD, in the entire subsystem as HDD without TRIM support.

VTrak Ex30 and Jx30 Drive Compatibility List

Vendor	Family	Model	Part Number	Firmware	Capacity	Type	Interface
Intel	**DC S3700**	SSDSC2BA800G3	SSDSC2BA800G3	265	800GB	MLC	6Gb/s SATA
		SSDSC2BA400G3	SSDSC2BA400G3	265	400GB	MLC	6Gb/s SATA
		SSDSC2BA200G3	SSDSC2BA200G3	265	200GB	MLC	6Gb/s SATA
		SSDSC2BA100G3	SSDSC2BA100G3	265	100GB	MLC	6Gb/s SATA
	710 SSD Series	SSDSA2BZ100G301	SSDSA2BZ100G301	362	100GB	MLC	3Gb/s SATA
		SSDSA2BZ200G301	SSDSA2BZ200G301	362	200GB	MLC	3Gb/s SATA
Micron	**M600**	MTFDDAK1T0MBF-1AN1Z	MTFDDAK1T0MBF-1AN12	MU03	1TB	MLC	6Gb/s SATA
		MTFDDAK512MBF-1AN1Z	MTFDDAK512MBF-1AN12	MU03	512GB	MLC	6Gb/s SATA
		MTFDDAK256MBF-1AN1Z	MTFDDAK256MBF-1AN12	MU03	256GB	MLC	6Gb/s SATA
		MTFDDAK128MBF-1AN1Z	MTFDDAK128MBF-1AN12	MU03	128GB	MLC	6Gb/s SATA
Crucial	**M200**	CT1000MX200SSD1		MU01	1TB	MLC	6Gb/s SATA
		CT500MX200SSD1		MU01	500GB	MLC	6Gb/s SATA
		CT250MX200SSD1		MU01	250GB	MLC	6Gb/s SATA

Promise Technology, Inc. © 2016 Promise Technology, Inc. All rights reserved.

	M500	CT960M500SSD1	CT960M500SSD1	MU03	960GB	MLC	6Gb/s SATA
		CT480M500SSD1	CT480M500SSD1	MU03	480GB	MLC	6Gb/s SATA
		CT240M500SSD1	CT240M500SSD1	MU03	240GB	MLC	6Gb/s SATA
		CT120M500SSD1	CT120M500SSD1	MU03	120GB	MLC	6Gb/s SATA
Samsung	SM843T	MZ7WD960HAGP-00003	MZ7WD960HAGP-00003	DW3Q	960GB	MLC	6Gb/s SATA
		MZ7WD480HAGP-00003	MZ7WD480HAGP-00003	DW3Q	480GB	MLC	6Gb/s SATA
		MZ7WD240HAGP-00003	MZ7WD240HAGP-00003	DW3Q	240GB	MLC	6Gb/s SATA
		MZ7WD120HAGP-00003	MZ7WD120HAGP-00003	DW3Q	120GB	MLC	6Gb/s SATA
Smart Storage / SanDisk	Cloudspeed 1000E	TXB2C10800GG7001	TXB2C10800GG7001	ME99	800GB	MLC	6Gb/s SATA
		TXB2C10400GG7001	TXB2C10400GG7001	ME99	400GB	MLC	6Gb/s SATA
		TXB2C10200GG7001	TXB2C10200GG7001	ME99	200GB	MLC	6Gb/s SATA
		TXB2C10100GG7001	TXB2C10100GG7001	ME99	100GB	MLC	6Gb/s SATA
	Optimus Ascend	TXA2D4	SDLLOCDM-016T-5CA1	F670	1600GB	eMLC	6Gb/s SAS
		TXA2D3	SDLKOCDM-800G-5CA1	F670	800GB	eMLC	6Gb/s SAS
		TXA2D2	SDLKODDM-400G-5CA1	F670	400GB	eMLC	6Gb/s SAS
		TXA2D1	SDLKOEDM-200G-5CA1	F670	200GB	eMLC	6Gb/s SAS
STEC	Mach16 SSD	M16ISD2-200UCU	M16ISD2-200UCU	184	200GB	SLC	3Gb/s SATA

** These SSD drives require an updated VTrak firmware available from Promise Support. The 300GB Intel 320 SSD does NOT require this update. Please contact technical support @ 408-228-1400 or via web https://support.promise.com
Reference this compatibility list.

Hard Disk Drive APM Support Level with MAID 2.0

Supported Disk Drives with Advanced Power Management						
Vendor	Family	Firmware	Interface	VTrak MAID Support		
				Park Heads Level-1	Reduce RPM Level-2	Spin-down Level-3
HGST	Ultrastar A7K2000	3EA	3Gb/s SATA	YES	YES	YES
	Ultrastar A7K3000	5C0	6Gb/s SATA	YES	YES	YES
Intel	X25-E	8850	3Gb/s SATA	n/a	n/a	n/a
Seagate	Cheetah 15K.7	0008	6Gb/s SAS	YES	NO	YES
	Constellation ES	0006	6Gb/s SAS	YES	YES	YES
	Constellation ES 2	0003	6Gb/s SAS	YES	YES	YES
Western Digital	RAID Edition 4	1D01	3Gb/s SATA	YES	NO	YES

---

‡ Promise qualified drives will be the only supported drives for the VTrak systems. The support requirements will be derived from the drive part numbers listed above and not necessarily by the model number. Using unqualified disk drives with the system may appear to work but cannot be guaranteed for the service life.

Promise Technology, Inc. © 2016 Promise Technology, Inc. All rights reserved.

UPS Appliances

UPS Support*	HW Rev.	APC OS	APP. Module SW
§APC Smart-UPS 1500VA - North America	667.18.D	v3.6.1	v3.5.8
§APC Smart-UPS 2200VA - North America	667.18.D	v3.6.1	v3.5.8
§APC Smart-UPS 3000VA - North America	667.18.D	v3.6.1	v3.5.8

*The above UPS models were fully validated for use with a properly configured VTrak Ex30 system. For other regions that use different power sources, such as Japan, using the APC Smart-UPS equivalent will be supported.

USB Flash Drives (OPAS Service Port)

Vendor**	Family	MFG Part Number	Capacity
HP	v125w	P-FD4GBHP125-EF	4GB
Pretec	i-Disk	Q3U04G	4GB

** There is a large variety of USB Flash Drive vendors to select from on the market. The Promise qualification team selected only a handful to represent only a sampling of available Flash Drives. The above list shows the drives that have passed a rigorous read/write/discovery test process are deemed worthy of use out-of-the-box. There were other USB Flash drives that did not function properly out-of-the-box, and required a partition and format in order to use them.

Promise Validated Browsers for WebPAMPROe

Validated Web Browsers for Ex30 WebPAMPROe	
Product	**Version**
Internet Explorer	8.0.7601.17514 , 9.0.8112.16421, 11
Safari for Mac	7.0,6.0.5, 7.0.5, 8.05
Safari for Windows	5.1
Mozilla Firefox for Windows	27.0, 31.0, 32.0.3,33.0.2, 35.0,36.0.1, 38.0.1
Mozilla Firefox for RHEL	10.0.12, 27.0
Mozilla Firefox for SLES 11.1	10.0, 17.0.4, 27.0

♠ End of Report ♠

Promise Technology, Inc. © 2016 Promise Technology, Inc. All rights reserved.