

Vess A7000 SR0.8 Compatibility List

Date: May 7th, 2019

Version: 1.0

Vess A7000 System Covered:

- **Vess A7600** – 3U/16-bays Storage Appliance for Video Surveillance
- **Vess A7800** – 4U/24-bays Storage Appliance for Video Surveillance

System Versions Covered:

- **InstallPkg** – Version 1.00.0000.17

DEVICE COMPATIBILITY NOTE:

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

The EOL of 3rd party device may not be in the current list, user can refer older version of Promise compatibility list to get those test result.

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.

Some listed devices may go EOL. AVL listing does not imply market availability.

Document History

Date	Release Label	Release Version	Notes
March 16, 2018	FCS	First release Qualified some devices: <ul style="list-style-type: none"> ● SATA Hard Drive: 10 models ● OS: 1 set ● VMS: 2 models ● CPU: 2 models ● Memory: 2 models 	
April 16, 2018	FCS	Based on last released compatibility list with new added software and devices: (blue and orange-color highlights) <ul style="list-style-type: none"> ● External Graphics Card: 4 models 	
Oct. 24, 2018	FCS	Based on last released compatibility list with new added software and devices: (blue and orange-color highlights) <ul style="list-style-type: none"> ● SATA Hard Drive: 14 models ● Update hard drive firmware: 2 models ● External Graphics Card: 1 model 	New Hard Drive: WD6002FRYZ WD40PURX WD30PURX WD20PURX WD10PURX MG06ACA10TE MG06ACA800E MG06ACA600E MD06ACA10TV MD06ACA800V MD06ACA600V ST8000NM0055 ST6000NM0115 HUH721212ALE600 Update firmware: MG05ACA800E MG05ACA600E
May 7, 2019	SR0.8	Based on last released compatibility list with new added software and devices: (blue and orange-color highlights) <ul style="list-style-type: none"> ● SATA Hard Drive: 8 models ● SAS Hard Drive: 17 models ● Update hard drive firmware: 5 models ● OS: 1 set ● CPU: 2 models ● External Nic Card: 3 models ● External Graphics Card: 2 models 	SATA New HDD: ST8000VE0004 ST14000NM0018 ST12000NM0008 ST10000NM0478 MG07ACA14TE MG07ACA12TE WD101PURZ WUH721414ALE6L4 SAS New HDD: ST14000NM0048 ST12000NM0038 ST10000NM0528 ST8000NM001A ST6000NM029A ST900MP0146 ST600MP0136 ST300MP0106

			MG04SCA60EE MG04SCA50EE MG04SCA40EE MG04SCA20EE MG06SCA10TE MG06SCA800E MG06SCA600E MG07SCA14TE MG07SCA12TE SATA HDD Update firmware: MG04ACA600E MG04ACA500E MG04ACA400E MG04ACA300E MG04ACA200E
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1. SATA Hard Drives

Vendor	Family	Model	Capacity	Part Number	Firmware	Buffer	Drive Transfer Rate	Form Factor	RPM
HGST	Ultrastar He12	HUH721212ALE600	12TB	0F30144	LEGNT3D0	256MB	6Gb/s	3.5"	7200
Seagate	SkyHawk (Surveillance)	ST10000VX0004	10TB	1ZE101-500	AV01	256MB	6Gb/s	3.5"	7200
		ST8000VX0022	8TB		AV01	256MB	6Gb/s	3.5"	7200
		ST6000VX0023	6TB		SC60	256MB	6Gb/s	3.5"	7200
	SkyHawk AI	ST8000VE0004	8TB	2K111G-500	EV01	256MB	6Gb/s	3.5"	7200
	Enterprise Capacity 3.5 HDD	ST8000NM0055	8TB	1RM112-101	SN05	256MB	6Gb/s	3.5"	7200
		ST6000NM0115	6TB		SN05	256MB	6Gb/s	3.5"	7200
	Exos X14	ST14000NM0018	14TB	2H4101-002	SN02	256MB	6Gb/s	3.5"	7200
		ST12000NM0008	12TB		SN02	256MB	6Gb/s	3.5"	7200
		ST10000NM0478	10TB		SN02	256MB	6Gb/s	3.5"	7200
TOSHIBA	Enterprise MG04ACAxxxE	MG04ACA600E	6TB	HDEPS10GEA51	FS3B FS4B	128MB	6Gb/s	3.5"	7200
		MG04ACA500E	5TB		FP3B FP4B	128MB	6Gb/s	3.5"	7200
		MG04ACA400E	4TB		FP3B FP4B	128MB	6Gb/s	3.5"	7200
		MG04ACA300E	3TB		FP3B FP4B	128MB	6Gb/s	3.5"	7200
		MG04ACA200E	2TB		FP3B FP4B	128MB	6Gb/s	3.5"	7200
	Enterprise MG05ACAxxxE	MG05ACA800E	8TB	HDEPT10GEA51 HDEPT10GEA51	GX1A GX2A	128MB	6Gb/s	3.5"	7200
		MG05ACA600E	6TB		GX1A GX2A	128MB	6Gb/s	3.5"	7200
	Enterprise MG06ACAxxxE	MG06ACA10TE	10TB	HDEPV10GEA51	0104	256MB	6Gb/s	3.5"	7200
		MG06ACA800E	8TB		0104	256MB	6Gb/s	3.5"	7200
		MG06ACA600E	6TB		0104	256MB	6Gb/s	3.5"	7200
	Enterprise MG07ACAxxxE	MG07ACA14TE	14TB	HDEPW10GEA51	0101	256MB	6Gb/s	3.5"	7200
		MG07ACA12TE	12TB		0101	256MB	6Gb/s	3.5"	7200
	Surveillance MD06ACAxxxV	MD06ACA10TV	10TB	HDETV10GZA51	0603	256MB	6Gb/s	3.5"	7200
		MD06ACA800V	8TB	HDETV11G2A51	0603	256MB	6Gb/s	3.5"	7200
		MD06ACA600V	6TB	HDETV13GZA51	0603	256MB	6Gb/s	3.5"	7200
Western Digital	WD Gold Datacenter	WD6002FRYZ	6TB	2W10021	01.01M03	128M	6Gb/s	3.5"	7200
	WD Purple	WD101PURZ	10TB	2W10242	81.H0A80	256MB	6Gb/s	3.5"	7200

	WD40PURX	4TB	85TTDY0	80.00A80	64MB	6Gb/s	3.5"	5400
	WD30PURX	3TB		80.00A80	64MB	6Gb/s	3.5"	5400
	WD20PURX	2TB		80.00A80	64MB	6Gb/s	3.5"	5400
	WD10PURX	1TB		80.00A80	64MB	6Gb/s	3.5"	5400
Ultrastar DC HC530	WUH721414ALE6L4	14TB	0F31284	LDGNW07A	512MB	6Gb/s	3.5"	7200

⚠ In a RAID array setup, we recommend using the enterprise level hard drive as it has much better command timeout control and features stable reliability to vibration compared to desktop one for critical applications.

⚠ Some listed devices may go EOL. AVL listing does not imply market availability.

⚠ **BLUE** Models are new additions actual in test to this release.

⚠ **ORANGE** Capacities are assumed to work but were not tested.

2. SAS Hard Drives

Vendor	Family	Model	Capacity	Part Number	Firmware	Buffer	Drive Transfer Rate	Form Factor	RPM
Seagate	Exos X14	ST14000NM0048	14TB	2H4201-002	E002	256MB	12Gb/s	3.5"	7200
		ST12000NM0038	12TB		E002	256MB	12Gb/s	3.5"	7200
		ST10000NM0528	10TB		E002	256MB	12Gb/s	3.5"	7200
	Exos 7E8	ST8000NM001A	8TB	2KE201-001	E001	256MB	12Gb/s	3.5"	7200
		ST6000NM029A	6TB		E001	256MB	12Gb/s	3.5"	7200
	Exos 15E900	ST900MP0146	900GB	1UY203-002	C003	256MB	12Gb/s	2.5"	15K
		ST600MP0136	600GB		C003	256MB	12Gb/s	2.5"	15K
		ST300MP0106	300GB		C003	256MB	12Gb/s	2.5"	15K
TOSHIBA	Enterprise MG04SCAxxEx	MG04SCA60EE	6TB	HDEPF10GEA51	0104	128MB	12Gb/s	3.5"	7200
		MG04SCA50EE	5TB		0104	128MB	12Gb/s	3.5"	7200
		MG04SCA40EE	4TB		0104	128MB	12Gb/s	3.5"	7200
		MG04SCA20EE	2TB		0104	128MB	12Gb/s	3.5"	7200
	Enterprise MG06SCAxxxx	MG06SCA10TE	10TB	HDEPK10GEA51	0102	256MB	12Gb/s	3.5"	7200
		MG06SCA800E	8TB		0102	256MB	12Gb/s	3.5"	7200
		MG06SCA600E	6TB		0102	256MB	12Gb/s	3.5"	7200
	Enterprise MG07SCAxxxx	MG07SCA14TE	14TB	HDEPM10GEA51	0101	256MB	12Gb/s	3.5"	7200
		MG07SCA12TE	12TB		0101	256MB	12Gb/s	3.5"	7200

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3. Operating Systems

Vendor	Core Platform	Type	Available Models
Microsoft	Windows 10 Enterprise	x64	A7600/A7800
	Windows Server 2106	x64	A7600/A7800

4. Vess A7000 VMS Compatibility List

Vendor	VMS Version
Milestone	Xprotect Corporate 2017 R2 (11.2a)
	Xprotect Professional 2017 R2 (11.2a)
	Xprotect Corporate 2018 R2 (12.2a)

5. CPU Compatibility List

Vendor	Models	Cores	L3 Cache Size	TDP
Intel	Intel® Xeon® CPU E5-2603v4 @1.7GHz	6	15MB	85W
Intel	Intel® Xeon® CPU E5-2609v4 @1.7GHz	8	20MB	85W
Intel	Intel® Xeon® CPU E5-2620 v4@ 2.10GHz	8	20MB	85W
Intel	Intel® Xeon® CPU E5-2630 v4@ 2.20GHz	10	25MB	85W

6. Memory Compatibility List

Vendor	Type	Speed	DIMM	Size	Module
Transcend	DDR4	2133	Reg ECC	8GB	TS1GHR72V1HL
Innodisk	DDR4	2133	Reg ECC	8GB	M4RS-8GSSDCRG-EH04

7. External Graphics Card Compatibility List

Vendor	Model	Win. Driver	Video Memory	Available Models
Sparkle	NVIDIA GeForce GTX1080	23.21.13.9077	8GB GDDR5	A7800
MSI	R7-260X	22.19.677.257	2GB GDDR5	A7800
ASUS	HD7770	22.19.677.257	1GB GDDR5	A7600/A7800
PowerColor	TurboDuo RADEON R9 270	22.19.677.257	2GB GDDR5	A7600/A7800
Sparkle	GeForce GT 730	24.21.13.9882	1GB GDDR5	A7600/A7800
EVGA	NVIDIA GeForce GTX750ti	25.21.14.1735	2GB GDDR5	A7600/A7800
Sparkle	NVIDIA GeForce GTX1050	25.21.14.1735	2GB GDDR5	A7600/A7800

8. Network Interface Card Compatibility List

Vendor	Models	Description
Intel	Intel® Ethernet Controller X550-T2	10GbE Base-T Dual-port

Intel	Intel® Ethernet controller X540 AT2	10GbE Base-T Dual-port
Intel	Intel® Ethernet Server Adapter I350-T4	1GbE Base-T Quad-port