Vess A3120
SR4 Compatibility List

Date: Jan 18, 2022 Version: 1.1

Vess A3120 System Covered:

- **Vess A3120** – 1U/4-bays NVR Storage Appliance

System Versions Covered:

- **InstallPkg** – Version 4.00.0000.02

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.

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Document History

Date	Release Label	Release Version	Notes
Oct. 12, 2018	FCS	First release Qualified some devices: ● SATA Hard Drive: 37 models ● OS: 1 set ● VMS: 2 models ● CPU: 1 model ● External Graphics Card: 4 models	
Feb. 18, 2019	FCS	Based on last released compatibility list with new added disk drive devices: (blue and orange-color highlights) ● SATA Hard Drive: 2 models ● VMS: 1 models	WUH721414ALE6L4 ST8000VE0004
Aug. 5, 2019	SR1	Based on last released compatibility list with new added disk drive devices: (blue and orange-color highlights) ● SATA Hard Drive: 17 models ● Update hard drive firmware: 5 models ● VMS: 2 models	SATA New HDD: ST14000NM0018 ST12000NM0008 ST10000NM0478 ST4000NM0035 ST3000NM0005 ST2000NM0055 ST1000NM0055 ST8000NM000A ST6000NM021A ST4000NM002A ST2000NM001A ST16000NM001G ST14000NM001G HUS728T8TALE6L4 HUS726T6TALE6L4 HUS726T4TALE6L4 DT01ABA200V Update firmware: MG04ACA600E MG04ACA400E MG04ACA300E MG04ACA200E MD04ABA400V
Dec. 6, 2019	SR2	Based on last released compatibility list with new added disk drive devices: (blue and orange-color highlights) ● SATA Hard Drive: 8 models ● VMS: 1 model	ST16000VE000 ST14000VE0008 ST12000VE0008 ST10000VE0008 ST6000VX001 ST3000VX009 ST4000NM0115 ST2000NM0125
June 18, 2020	SR2.1	Based on last released compatibility list with new added disk drive devices: (blue and orange-color highlights)	New Hard Drive: MG08ACA16TE ST8000VX004

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		● SATA Hard Drive: 7 models ● Update hard drive firmware: 6 models ● VMS: 1 model ● External Storage: 1 model ● Network Interface Card: 2 models	ST6000NM002A ST4000NM000A ST3000NM000A ST2000NM000A ST1000NM000A Update firmware: ST8000NM000A ST6000NM021A ST4000NM002A ST2000NM001A ST16000NM001G ST14000NM001G
Jan. 18, 2021	SR2.2	Based on last released compatibility list with new added disk drive devices: (blue and orange-color highlights) ● SATA Hard Drive: 6 models ● Update hard drive firmware: 5 models	New Hard Drive: ST12000NM001G ST10000NM001G WD40PURZ WD30PURZ WD20PURZ WD10PURZ Update firmware: MG06ACA10TE MG06ACA800E MG06ACA600E MG07ACA14TE MG07ACA12TE
July 12, 2021	SR4	Based on last released compatibility list with new added disk drive devices: (blue and orange-color highlights) ● SATA Hard Drive: 8 models ● Update hard drive firmware: 1 model ● Network Interface Card: 1 model	New Hard Drive: ST10000VE001 ST80000VE001 MG08ADA800E MG08ADA600E MG08ADA400E WUH721818ALE6L4 WUH721816ALE6L4 WUS721010ALE6L4 Update firmware: HUS728T8TALE6L4
Jan 18, 2022	SR4	Based on last released compatibility list with new added disk drive devices: (blue and orange-color highlights) ● SATA Hard Drive: 3 models ● Update hard drive firmware: 7 models ● OS: 1 model ● VMS: 2 models	New Hard Drive: MG09ACA18TE MG09ACA16TE MN08ADA400E Update firmware: MG06ACA10TE MG06ACA800E MG06ACA600E MG07ACA14TE MG07ACA12TE WUS721010ALE6L4 HUS728T8TALE6L4

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1. SATA Hard Drives

Vendor	Family	Model	Capacity	Part Number	Firmware	Buffer	Drive Transfer Rate	Form Factor	RPM
HGST	Ultrastar 7K6000	HUS726060ALE610	6TB	0F23001	APGNT907	128MB	6Gb/s	3.5”	7200
		HUS726050ALE610	5TB		APGNT907	128MB	6Gb/s	3.5”	7200
		HUS726040ALE610	4TB		APGNT907	128MB	6Gb/s	3.5”	7200
		HUS726020ALE610	2TB		APGNT907	128MB	6Gb/s	3.5”	7200
	Ultrastar He10	HUH721010ALE600	10TB	0F27452	LHGNT21D	256MB	6Gb/s	3.5”	7200
		HUH721008ALE600	8TB		LHGNT21D	256MB	6Gb/s	3.5”	7200
	Ultrastar He12	HUH721212ALE600	12TB	0F30144	LEGNT3D0	256MB	6Gb/s	3.5”	7200
Seagate	SkyHawk	ST10000VX0004	10TB	1ZE101-500	AV01	256MB	6Gb/s	3.5”	7200
		ST8000VX0022	8TB		AV01	256MB	6Gb/s	3.5”	7200
		ST6000VX0023	6TB	2EF110-300	SC60	256MB	6Gb/s	3.5”	7200
		ST4000VX007	4TB	2DT166-300	CV11	64MB	6Gb/s	3.5”	5900
		ST3000VX010	3TB		CV11	64MB	6Gb/s	3.5”	5900
		ST2000VX008	2TB		CV11	64MB	6Gb/s	3.5”	5900
		ST1000VX005	1TB		CV11	64MB	6Gb/s	3.5”	5900
		ST8000VX004	8TB	2M1101-500	AV01	256MB	6Gb/s	3.5”	7200
		ST6000VX001	6TB	28D186-500	CV11	256MB	6Gb/s	3.5”	5400
		ST3000VX009	3TB		CV11	256MB	6Gb/s	3.5”	5400
	SkyHawk AI	ST16000VE000	16TB	2L2103-500	EV02	256MB	6Gb/s	3.5”	7200
		ST14000VE0008	14TB		EV02	256MB	6Gb/s	3.5”	7200
		ST12000VE0008	12TB		EV02	256MB	6Gb/s	3.5”	7200
		ST10000VE0008	10TB	2KX101-500	EV01	256MB	6Gb/s	3.5”	7200
		ST8000VE0004	8TB	2K111G-500	EV01	256MB	6Gb/s	3.5”	7200
		ST10000VE001	10TB	WP000M16	EV01	256MB	6Gb/s	3.5”	7200
		ST80000VE001	8TB		EV01	256MB	6Gb/s	3.5”	7200
	Exos 7E8	ST8000NM000A	8TB	2KE101-001	SN01 SN02	256MB	6Gb/s	3.5”	7200
		ST6000NM021A	6TB		SN01 SN02	256MB	6Gb/s	3.5”	7200
		ST4000NM002A	4TB		SN01 SN02	256MB	6Gb/s	3.5”	7200
		ST2000NM001A	2TB		SN01 SN02	256MB	6Gb/s	3.5”	7200
		ST6000NM002A	6TB	2KF100-001	TN02	256MB	6Gb/s	3.5”	7200
		ST4000NM000A	4TB		TN02	256MB	6Gb/s	3.5”	7200
		ST3000NM000A	3TB		TN02	256MB	6Gb/s	3.5”	7200

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		ST2000NM000A	2TB		TN02	256MB	6Gb/s	3.5”	7200
		ST1000NM000A	1TB		TN02	256MB	6Gb/s	3.5”	7200
		ST8000NM0055	8TB	1RM112-101	SN05	256MB	6Gb/s	3.5”	7200
		ST6000NM0115	6TB		SN05	256MB	6Gb/s	3.5”	7200
		ST4000NM0115	4TB		SN05	128MB	6Gb/s	3.5”	7200
		ST2000NM0125	2TB		SN05	128MB	6Gb/s	3.5”	7200
		ST4000NM0035	4TB	1V4107-001	TN04	128MB	6Gb/s	3.5”	7200
		ST3000NM0005	3TB		TN04	128MB	6Gb/s	3.5”	7200
		ST2000NM0055	2TB		TN04	128MB	6Gb/s	3.5”	7200
		ST1000NM0055	1TB		TN04	128MB	6Gb/s	3.5”	7200
	Exos X10	ST10000NM0016	10TB	1TT101-002	SND0	256MB	6Gb/s	3.5”	7200
		ST8000NM0016	8TB		SND0	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
	Exos X16	ST16000NM001G	16TB	2KK103-001	SN01 SN03	256MB	6Gb/s	3.5”	7200
		ST14000NM001G	14TB		SN01 SN03	256MB	6Gb/s	3.5”	7200
		ST12000NM001G	12TB		SN03	256MB	6Gb/s	3.5”	7200
		ST10000NM001G	10TB		SN03	256MB	6Gb/s	3.5”	7200
TOSHIBA	Surveillance HDD MD04ABAxxxV	MD04ABA500V	5TB	HDEUR10GZA51	FP1T	128MB	6Gb/s	3.5”	5400
		MD04ABA400V	4TB		FP1T	128MB	6Gb/s	3.5”	5400
				HDEUR11GZA51	FP2T				
	Surveillance HDD 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
	Video Stream HDD DT01ABAxxxV	DT01ABA200V	2TB	HDKPJ25A1A01	MZ4OABB0	32MB	6Gb/s	3.5”	5700
	NAS HDD MN Series	MN08ADA400E	4TB	HDEMX12GEA51	0601	256MB	6Gb/s	3.5”	7200
	Enterprise HDD MG04ACAxxxE	MG04ACA600E	6TB	HDEPS10GEA51	FS3B FS4B	128MB	6Gb/s	3.5”	7200
		MG04ACA500E	5TB		FP3B	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	128MB	6Gb/s	3.5”	7200

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					FP4B				
	Enterprise HDD MG05ACAxxxE	MG05ACA800E	8TB	HDEPT10GEA51	GX2A	128MB	6Gb/s	3.5”	7200
		MG05ACA600E	6TB		GX2A	128MB	6Gb/s	3.5”	7200
	Enterprise HDD MG06ACAxxxE	MG06ACA10TE	10TB	HDEPV10GEA51	0104 0108 0109	256MB	6Gb/s	3.5”	7200
		MG06ACA800E	8TB		0104 0108 0109	256MB	6Gb/s	3.5”	7200
		MG06ACA600E	6TB		0104 0108 0109	256MB	6Gb/s	3.5”	7200
	Enterprise HDD MG07ACAxxx	MG07ACA14TE	14TB	HDEPW10GEA51	0101 0103 0104	256MB	6Gb/s	3.5”	7200
		MG07ACA12TE	12TB		0101 0103 0104	256MB	6Gb/s	3.5”	7200
	Enterprise HDD MG08 Series	MG08ACA16TE	16TB	HDEPX10GEA51	0101	512MB	6Gb/s	3.5”	7200
	Enterprise HDD MG08-D Series	MG08ADA800E	8TB	HDEJX14GEA51	0101	256MB	6Gb/s	3.5”	7200
		MG08ADA600E	6TB		0101	256MB	6Gb/s	3.5”	7200
		MG08ADA400E	4TB	HDEJX12GEA51	0101	256MB	6Gb/s	3.5”	7200
	Enterprise HDD MG09 Series	MG09ACA18TE	18TB	HDEP210GEA51	0103	512MB	6Gb/s	3.5”	7200
		MG09ACA16TE	16TB		0103	512MB	6Gb/s	3.5”	7200
Western Digital	WD Gold Datacenter	WD8002FRYZ	8TB	2W10104	01.01H01	128MB	6Gb/s	3.5”	7200
		WD6002FRYZ	6TB	2W10021	01.01M03	128MB	6Gb/s	3.5”	7200
	Ultrastar DC HC550	WUH721818ALE6L4	18TB	0F38459	PCGNW120	512MB	6Gb/s	3.5”	7200
		WUH721816ALE6L4	16TB		120	512MB	6Gb/s	3.5”	7200
	Ultrastar DC HC530	WUH721414ALE6L4	14TB	0F31284	LDGNW07A	512MB	6Gb/s	3.5”	7200
	Ultrastar DC HC330	WUS721010ALE6L4	10TB	0B42266	VXGNW920 VXGNW980 VXGNW9G0	256MB	6Gb/s	3.5”	7200
	Ultrastar DC HC320	HUS728T8TALE6L4	8TB	0B36404	V8GNW460 V8GNW980 V8GNW9G0	256MB	6Gb/s	3.5”	7200
	Ultrastar DC HC310	HUS726T6TALE6L4	6TB	0B36039	VKGNW460	256MB	6Gb/s	3.5”	7200
		HUS726T4TALE6L4	4TB		VKGNW460	256MB	6Gb/s	3.5”	7200
	WD Purple	WD40PURZ	4TB	85AKKY0	80.00A80	64MB	6Gb/s	3.5”	5400

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		WD30PURZ	3TB		80.00A80	64MB	6Gb/s	3.5”	5400
		WD20PURZ	2TB		80.00A80	64MB	6Gb/s	3.5”	5400
		WD10PURZ	1TB		80.00A80	64MB	6Gb/s	3.5”	5400

- 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.**

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2. Operating Systems

Vendor	Core Platform	Type	Available Models
Microsoft	Windows 10 Enterprise	x64	A3120
Linux	Ubuntu 18.04.03	x64	A3120

3. VMS Compatibility List

Vendor	VMS Version
Milestone	Xprotect Corporate 2017 R2 (11.2a)
	Xprotect Corporate 2018 R2 (12.2a)
	Xprotect Corporate 2019 R1 (13.1a)
	Xprotect Corporate 2020 R1b (20.1b)
	Xprotect Corporate 2021 R1 (21.1b)
Digifort	Enterprise 7.2.1.0
Samsung	S-1 SVMS 5.0.14.0
NetworkOptix	NX Witness_Windows 3.2.0.28738
	NX Witness_Linux 4.2.0.32840[*2]

[*2]NX Witness_Linux only support on Ubuntu OS.

4. External Storage Compatibility List

Vendor	Models	Interface
Promise	Vess R2600iD / R2600iS	1Gbps iSCSI
	Vess R2810i / R2812i	1Gbps iSCSI
	Vess R2610i / R2612i	1Gbps iSCSI
	Vess R3600iS / R3600iD	1Gbps iSCSI

↳ Vess J2000/J3000 Series is a robust storage expansion platform and it can be added to all Vess R2000/R3000 RAID subsystem. Please refer to Vess R2000/R3000 Series Compatibility List.

5. CPU Compatibility List

Vendor	Models	Cores	L3 Cache Size	TDP
Intel	Intel(R) Core(TM) i3-7101E CPU @ 3.90GHz	2	3MB	54W

6. External Graphics Card Compatibility List

Vendor	Model	Win. Driver
Sparkle	nVidia GeForce GT730 /1G DDR5	Nvidia GeForce 398.82
Sparkle	nVidia GeForce GT730 /2G DDR5	Nvidia GeForce 398.82
Sparkle	NVIDIA GeForce GTX1050 / 2G DDR5	Nvidia GeForce 398.82
Sparkle	NVIDIA GeForce GTX1030 / 2G DDR5	Nvidia GeForce 398.82

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7. Network Interface Card Compatibility List

Vendor	Models	Description
Intel	Intel® Ethernet Controller X550-T2	10GbE Base-T Dual-port
Intel	Intel® Ethernet Converged Network Adapter X710-DA2	10GbE Dual-port SFP+
Intel	Intel® Ethernet Network Adapter X710-T2L	10GbE Base-T Dual-port

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