Vess A6120
SR1 Compatibility List

Date: Dec. 7th, 2017 **Version: 1.1**

Vess A6120 System Covered:

- **Vess A6120** – 1U/4-bays NVR Storage Appliance

System Versions Covered:

- **BootLoader** – Version P1.00
- **InstallPkg** – Version 0.01.0000.22
- **Firmware** – Version 0.00.0025.92
- **Software** – Version 0.00.0302.23

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.

PROMISE Technology, Inc. ©2017 PROMISE Technology, Inc. All rights reserved.

Document History

Date	Release Label	Release Version	Notes
Dec 27, 2016	FCS	First release Qualified some devices: ● SATA Hard Drive: 36 models ● OS: 4 sets ● USB Flash Drive: 10 models. ● VMS: 3 models ● Add-On Card: 6 models ● CPU: 2 models ● Memory: 3 models	
Feb 21, 2017	FCS	Modify the OS version and the VMS version.	
May 25, 2017	FCS	Based on last released compatibility list with new added software and devices: (blue and orange-color highlights) ● Update hard drive firmware: 2 models ● New SATA Hard Drive: 2 models	Update firmware: MG05ACA800E MG05ACA600E New Hard Drive: WD8002FRYZ WD6002FRYZ
Sep. 12, 2017	SR1	Based on last released compatibility list with new added software and devices: (blue and orange-color highlights) ● New SATA Hard Drive: 4 models ● Network Interface Card: 3 models	HUH721010ALE600 HUH721008ALE600 ST10000NM0016 ST8000NM0016
Dec. 7, 2017	SR1	Based on last released compatibility list with new added software and devices: (blue and orange-color highlights) ● VMS: 3 models ● Network Interface Card: 1 model	

PROMISE Technology, Inc. ©2017 PROMISE Technology, Inc. All rights reserved.

1. SATA Hard Drives

Vendor	Family	Model	Capacity	Part Number	Firmware	Buffer	Drive Transfer Rate	Form Factor	RPM
HGST	Ultrastar He10	HUH721010ALE600	10TB	0F27452	LHGNT21D	256MB	6Gb/s	3.5”	7200
		HUH721008ALE600	8TB		LHGNT21D	256MB	6Gb/s	3.5”	7200
	Ultrastar He8	HUH728080ALE600	8TB	0F23267	A4GNT907	128MB	6Gb/s	3.5”	7200
		HUH728060ALE600	6TB		A4GNT907	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
Seagate	Enterprise Capacity 3.5 HDD v4	ST6000NM0024	6TB	1HT17Z-001	SN05	128MB	6Gb/s	3.5”	7200
		ST5000NM0024	5TB		SN05	128MB	6Gb/s	3.5”	7200
		ST4000NM0024	4TB		SN05	128MB	6Gb/s	3.5”	7200
		ST2000NM0024	2TB		SN05	128MB	6Gb/s	3.5”	7200
	Enterprise Capacity 3.5 HDD	ST6000NM0115	6TB	1YZ110-002	SN02	256MB	6Gb/s	3.5”	7200
	Enterprise Capacity 3.5 HDD v6	ST10000NM0016	10TB	1TT101-002	SND0	256MB	6Gb/s	3.5”	7200
		ST8000NM0016	8TB		SND0	256MB	6Gb/s	3.5”	7200
	SkyHawk	ST10000VX0004	10TB	1ZE101-500	AV01	256MB	6Gb/s	3.5”	7200
		ST8000VX0002	8TB		AV01	256MB	6Gb/s	3.5”	7200
	Surveillance HDD	ST6000VX0001	6TB	1SH17Z-500	VN01	128MB	6Gb/s	3.5”	7200
		ST5000VX0001	5TB		VN01	128MB	6Gb/s	3.5”	7200
		ST4000VX000	4TB	1F4168-900	CV12	64MB	6Gb/s	3.5”	5900
		ST3000VX002	3TB		CV12	64MB	6Gb/s	3.5”	5900
		ST2000VX003	2TB		CV12	64MB	6Gb/s	3.5”	5900
TOSHIBA	MG05ACAxxxE	MG05ACA800E	8TB	HDEPT10GEA51	GX0A	128MB	6Gb/s	3.5”	7200
				HDEPT10GEA51	GX1A				
		MG05ACA600E	6TB		GX0A	128MB	6Gb/s	3.5”	7200
				HDEPT11GEA51	GX1A				
	MG04ACAxxxE	MG04ACA600E	6TB	HDEPS10GEA51	FS3B	128MB	6Gb/s	3.5”	7200
		MG04ACA500E	5TB		FP3B	128MB	6Gb/s	3.5”	7200
		MG04ACA400E	4TB		FP3B	128MB	6Gb/s	3.5”	7200
		MG04ACA300E	3TB		FP3B	128MB	6Gb/s	3.5”	7200
		MG04ACA200E	2TB		FP3B	128MB	6Gb/s	3.5”	7200
	MC04ACAxxxE	MC04ACA400E	4TB	HDERR11GEA51	FP2A	128MB	6Gb/s	3.5”	7200
		MC04ACA300E	3TB		FP2A	128MB	6Gb/s	3.5”	7200
		MC04ACA200E	2TB		FP2A	128MB	6Gb/s	3.5”	7200
	MD04ABAxxxV	MD04ABA500V	5TB	HDEUR10GZA51	FP1T	128MB	6Gb/s	3.5”	5400
		MD04ABA400V	4TB		FP1T	128MB	6Gb/s	3.5”	5400

PROMISE Technology, Inc. ©2017 PROMISE Technology, Inc. All rights reserved.

Western Digital	WD Gold Datacenter	WD8002FRYZ	8TB	2W10104	01.01H01	128MB	6Gb/s	3.5”	7200
		WD6002FRYZ	6TB	2W10001	01.01M02	128MB	6Gb/s	3.5”	7200
	WD Purple	WD60PURX	6TB	64GVNY0	80.00A80	64MB	6Gb/s	3.5”	5400
		WD50PURX	5TB		80.00A80	64MB	6Gb/s	3.5”	5400
		WD40PURX	4TB		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
		WD05PURX	500GB		80.00A80	64MB	6Gb/s	3.5”	5400
	WD Purple NV	WD4NPURX	4TB	64TPFY0	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.**

PROMISE Technology, Inc. ©2017 PROMISE Technology, Inc. All rights reserved.

2. Compatible USB Flash Drives

Vendor	Model	Capacity	Interface
Kingston	Data Traveler 100 G3	32GB	USB3.0
Sony	USM-X	32GB	USB3.0
Kingston	Data Traveler R3.0 G2	32GB	USB3.0
ADATA	S102 pro	32GB	USB3.0
ADATA	S107	32GB	USB3.0
SanDisk	Extreme CZ80	32GB	USB3.0
Transcend	JetFlash 810	32GB	USB3.0
SanDisk	CZ58 Cruzer Orbit	16GB	USB2.0
TOSHIBA	Mini Metal	32GB	USB2.0
Sony	USM32W3	32GB	USB3.1

3. Operating Systems

Vendor	Core Platform	Type	Available Models
Microsoft	Windows 10 IoT Enterprise	x64	A6120
	Windows 10 Enterprise	x64	A6120
	Windows Embedded Server 2012 R2 Standard	x64	A6120
	Windows Embedded Storage Server 2012 R2 Standard	x64	A6120

4. Vess A6120 VMS Compatibility List

Vendor	VMS Version
Milestone	Xprotect Corporate 2016 R3 (10.2a)
	Xprotect Corporate 2017 R2 (11.2a)
	Xprotect Enterprise 2016 R3 (10.2a)
	Xprotect Professional 2016 R3 (10.2a)
	Xprotect Professional 2017 R2 (11.2a)
Axxonsoft	AxxonNext 4.0.0.4316

5. Add-On Card Compatibility List

Vendor	Models	Description
Promise	M.2 Expansion RAID Card	Extension RAID Board.64G M2*2
AsRock	M3008	SAS Expansion Card
AsRock	M540R	Dual 10G Base T
AsRock	M599R	Dual 10G SFP+
AsRock	M350R	Dual 1G NIC Card
AsRock	AU350X4	1Gb x 4 NIC Card

PROMISE Technology, Inc. ©2017 PROMISE Technology, Inc. All rights reserved.

6. CPU Compatibility List

Vendor	Models	Cores	L3 Cache Size	TDP
Intel	Intel® Xeon® CPU E5-2620 v4 @ 2.10GHz	8	20MB	85W
Intel	Intel® Xeon® CPU E5-2603 v4 @ 1.70GHz	6	15MB	85W

7. Memory Compatibility List

Vendor			
Transcend	Transcend DDR4-2133 TS1GHR72V1HL 8GB	DDR4	8GB
Innodisk	Innodisk DDR4-2133 REG VLP DIMM M4R0-8GSSDCRG 8GB	DDR4	8GB
ADATA	ADATA DDR4-2133 AD4V2133W8G15-BSSE VLP-R*2 8GB	DDR4	8GB

8. Network Interface Card Compatibility List

Vendor	Models	Description
Mellanox	MCX353A-FCBT Network Interface Card	Single FDR 40GbE
Mellanox	MCX312C-XCCT Network Interface Card	10GbE Dual-port SFP+
Mellanox	MCX312A-XCBT Network Interface Card	10GbE Dual-port SFP+
Caswell	NIC-51043 Network Interface Card / Intel i350-AM4	1GbE 4Ports

PROMISE Technology, Inc. ©2017 PROMISE Technology, Inc. All rights reserved.