

Promise[®] SuperTrak

EX4650/EX8650/EX8654/EX8658/EX16650

SR4 Compatibility List V1.6

Date: 01/28/2011

Document History:

- V1.0: 1. First release (Based on SR3 FW, BIOS , Drivers had a little bit minor changes)
2. Based on SR3 Compatibility List , added some new devices as below
 - ◆ SATA Hard Drives: 6Q'ty
 - ◆ SAS Hard Drives: 1Q'ty
 - ◆ SSD Hard Drives 1Q'ty
 - ◆ JBOD Enclosures: Promise VessJBOD 1000 series
- V1.1: Added one SATA Hard Drive.
- V1.2: Added one SATA Hard Drive and 3 Server boards.
- V1.3: Added 5 Server boards.
- V1.4: Added one SATA Hard Drive.
- V1.5: Added three SATA Hard Drives.
- V1.6: Added VMware OS List (Highlighted it with blue-color.)

Compatibility list included versions in this build are:

Firmware: 1.09.0000.00

BIOS: 3.00.0000.84

Windows driver(mini port): 5.00.0000.04

Windows driver(stor port): 5.01.0000.04

Linux Common Driver(Kernel 2.6): 4.06.1000.07

Linux Driver(Red Hat 5.3-Inbox): 3.06.0102.02

Linux Driver(Red Hat 5.3-DriveDisk): 4.06.1000.07

Linux Driver(SuSE ES11-Inbox): 3.06.0000.01

FreeBSD 6.4: 1.00.0000.01

FreeBSD 7.1: 1.00.0000.01

VMware ESX 3.5 U4/U5 : 3.06.0000.04

VMware ESX 4.1: 4.07.0000.72

WebPAM Pro: 3.15.0000.00

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.

1. Mother Boards

Vendor	Model	North Bridges	South Bridges	MB BIOS	Note
SUPERMICRO [®]	X7DWA-N	Intel [®] 5400	ESB2	Phoenix 1.1b	
TYAN [®]	S2925 (Tomcat n3400B)	Nvidia nForce Pro 3400	SMSC DME5017	AMI 08.00.14	Note [1]
ASUS	Striker II Extreme	NVIDIA nForce 790i Ultra SLI	NVIDIA nForce 790i SLI	Phoenix-Award 1104	
msi [™]	P7N SLI Platinum	NVIDIA nForce 750i SLI	NVIDIA nForce 430i SLI	AMI V1.0	
TYAN [®]	S5211	Intel [®] 3210	Intel [®] ICH9R	Phoenix V1.05	
GIGABYTE [™]	GA-EX38-DQ6	Intel [®] X38	Intel [®] ICH9R	Award F3a	
SUPERMICRO [®]	PDSME+	Intel [®] 3010	FW 82801GR(ICH 7R)	Phoenix Rev1.0	
GIGABYTE [™]	GA-X48-DQ6	Intel [®] X48	Intel [®] ICH9R	Award 07/17/2008	Note [2]
SUPERMICRO [®]	X8SAX	Intel [®] X58 Express chipset	Intel [®] ICH10R + PXH/V	AMI 1.0a	
ASUS	M2N68-AM	MCP68S	MCP68PVNT	AMI0313	Note [1]
SUPERMICRO [®]	SUPER C2SEE	Intel [®] G43 GMCH	Intel [®] ICH10	AMI 08.00.15	
msi [™]	K9N2G Neo	NVIDIA Geforce 8100	Geforce 8200	AMI V1.0	Note [3]
TYAN [®]	S5393	Intel [®] 5400MCH	6321ESB	Phoenix V1.02	
SUPERMICRO [®]	PDSBA	Intel [®] G965	FW 82801HB(ICH 8)	Phoenix V1.1	
SUPERMICRO [®]	X7D83	Intel [®] 5000P (Blackford)	MCH + PXH + ESB2	Phoenix V2.0	
Intel [®]	S5000VSA	Intel [®] 5000V	6321 ESB	AMI S5000.86B.00.00.0084	
GIGABYTE [™]	GA-M52L-S3P	NVIDIA nForce 520LE	NVIDIA nForce 520LE	Award F1	Note [2]
msi [™]	K9A2 Platinum	AMD 790FX	AMD SB600	AMI V1.1	Note [1]
Intel [®]	S3420GPLC	Intel [®] 3420		AMI 86B.01.00.0022	
SUPERMICRO [®]	X8SIL	Intel [®] 3400		AMI V1.0A	
SUPERMICRO [®]	X8SI6-F	Intel [®] 3420		AMI V1.0	
GIGABYTE [™]	GA-7TTSHE-RH	Intel [®] 5520	Intel [®] ICH10R	Phoenix 7TTSHE-F1	
TYAN [®]	S7010 (S7010AGM2NRF)	Intel [®] 5520	Intel [®] ICH10R	AMI 08.00.15	
TYAN [®]	S7002	Intel [®] 5500	Intel [®] ICH10R	AMI V1.05A	
Intel [®]	S5500BC	Intel [®] 5500	Intel [®] ICH10R	AMI S5500.86B.01.00.0038	
ASUS	Z8NA-D6	Intel [®] 5500 IOH	Intel [®] ICH10R	AMI 0205	

Note [1] : install FreeBSD 7.1 32/64 bit on board/card. System hang.

Answer : It's also failed to install FreeBSD on onboard SATA/IDE. It was M/B's limitation.

Note [2] : Install FreeBSD 7.1 32bit on board. Load driver then system hangs.

Answer : The root cause of this issue is sharing IRQ between EX8654 and onboard LAN.

You can do a workaround on this motherboard:

1. disable onboard LAN from system BIOS.
2. Install EX8654 driver
3. After driver installed, enable onboard LAN.

Note [3] : It failed to install FreeBSD 7.1 32bit .

Answer : Disable "on-board IEEE1394 controller", can install successfully.

2. SATA Hard Drives

Drive Vendor	Drive Family	Model	FW Version	Capacity	Spindle Speed	Buffer	NCQ / TCQ	Serial Speed	Form Factor	Note
Hitachi	Ultrastar A7K1000	HUA721050KLA330	GK6OAB0A	500.0GB	7200 RPM	32MB	NCQ	3.0Gb	3.5"	
Hitachi	Ultrastar A7K1000	HUA721010KLA330	GKAOAB0A	1.0TB	7200 RPM	32MB	NCQ	3.0Gb	3.5"	
Hitachi	Deskstar 7K2000	HDS722020ALA330	JKAOA20N	2.0TB	7200 RPM	32MB	NCQ	3.0Gb	3.5"	
Hitachi	Ultrastar A7K2000	HUA722010CLA330	JP4OA39C	1.0TB	7200 RPM	32MB	NCQ	3.0Gb	3.5"	
Hitachi	Ultrastar A7K2000	HUA722020ALA330	JKAOA20N	2.0TB	7200 RPM	32MB	NCQ	3.0Gb	3.5"	
Western Digital	RE2	WD7500AYYS	30.04G30	750.0GB	7200 RPM	16MB	NCQ ROHS	3.0Gb	3.5"	
Western Digital	WD RE2	WD5000ABPS	02.01B01	500.0GB	7200 RPM	16MB	NCQ ROHS	3.0Gb	3.5"	
Western Digital	WD RE2-GP	WD1000FYPS	02.01B01	1.0TB	7200 RPM	16MB	NCQ ROHS	3.0Gb	3.5"	
Western Digital	WD RE2	WD1601ABYS	06.06H05	160.0GB	7200 RPM	16MB	NCQ ROHS	3.0Gb	3.5"	
Western Digital	WD RE2-GP	WD7500AYPS	02.01B01	750.0GB	7200 RPM	16MB	NCQ ROHS	3.0Gb	3.5"	
Western Digital	WD RE3	WD3202ABYS	02.03B02	320.0GB	7200 RPM	16MB	NCQ ROHS	3.0Gb	3.5"	
Western Digital	WD RE3	WD5002ABYS	02.03B02	500.0GB	7200 RPM	16MB	NCQ ROHS	3.0Gb	3.5"	
Western Digital	WD RE3	WD2502ABYS	02.03B02	250.0GB	7200 RPM	16MB	NCQ ROHS	3.0Gb	3.5"	
Western Digital	WD VelociRaptor	WD1500HLFS	04.04V01	150.0GB	10000 RPM	16MB	NCQ ROHS	3.0Gb	3.5"	
Western Digital	WD RE3	WD1002FBYS	03.00C05	1.0TB	7200 RPM	32MB	NCQ	3.0Gb	3.5"	
Western Digital	WD RE3	WD7502ABYS	03.00C05	750.0GB	7200 RPM	32MB	NCQ	3.0Gb	3.5"	
Western Digital	WD RE4-GP	WD2002FYPS	04.05G04	2.0TB	7200 RPM	64MB	NCQ	1.5Gb	3.5"	Note[4]
Western Digital	WD RE4	WD2003FYYS	01.01D01	2.0TB	7200 PRM	64MB	NCQ	3.0Gb	3.5"	
Seagate	Barracuda ES	ST3500630NS	3.AEG	500.0GB	7200 RPM	16MB	NCQ	3.0Gb	3.5"	
Seagate	Barracuda ES.2	ST3500320NS	SN06	500.0GB	7200 RPM	32MB	NCQ	3.0Gb	3.5"	
Seagate	Barracuda ES.2	ST3750330NS	SN06	750.0GB	7200 RPM	16MB	NCQ	3.0Gb	3.5"	
Seagate	Barracuda ES.2	ST31000340NS	SN06	1.0TB	7200 RPM	32MB	NCQ	3.0Gb	3.5"	
Seagate	Barracuda ES.2	ST3250310NS	SN06	250.0GB	7200 RPM	32MB	NCQ	3.0Gb	3.5"	
Seagate	Constellation ES	ST32000644NS	SN11	2.0TB	7200 RPM	64MB	NCQ	3.0Gb	3.5"	
Samsung	SpinPoint F	HE103UJ	1AA01111	1.0TB	7200 RPM	32MB	NCQ ROHS	3.0Gb	3.5"	
Samsung	SpinPoint F1	HE502IJ	1AA01113	500.0GB	7200 RPM	16MB	NCQ	3.0Gb	3.5"	

⚠ In RAID storage system, we recommend user to use enterprise level hard drive, which has much better command timeout control and more reliable to vibration for critical application.

Note[4] : Must change 3.0Gb to 1.5Gb by jumper onto WD2002FYPS hard drive.

3. SAS Hard Drives

Drive Vendor	Drive Family	Model	FW Version	Capacity	Spindle Speed	Buffer	Serial Speed	Form Factor
Seagate	Cheetah 15K.5	ST373455SS	0002	73.0GB	15000RPM	16MB	3.0Gb	3.5"
Seagate	Savvio 15K.1	ST973451SS	0002	73.0GB	15000RPM	16MB	3.0Gb	2.5"
Seagate	Barracuda ES.2	ST31000640SS	0001	1.0TB	7200RPM	16MB	3.0GB	3.5"
Seagate	Cheetah 15K.6	ST3146356SS	0005	146.0GB	15000RPM	16MB	3.0Gb	3.5"
Seagate	Cheetah 15K.6	ST3300656SS	0004	300.0GB	15000RPM	16MB	3.0Gb	3.5"
Hitachi	Ultrastar15K147	HUS151436VLS300	A540	36.0GB	15000RPM	16MB	3.0Gb	3.5"
Hitachi	Ultrastar15K300	HUS153073VLS300	A410	73.0GB	15000RPM	16MB	3.0Gb	3.5"
Hitachi	Ultrastar15K300	HUS153014VLS300	A410, A320	147.0GB	15000RPM	16MB	3.0Gb	3.5"
Hitachi	Ultrastar C10K147	HUC101414CSS300	A210, A320, A410	147.0GB	10000RPM	16MB	3.0Gb	2.5"
Hitachi	Ultrastar 15K300	HUS153030VLS300	A410	300.0GB	15000RPM	16MB	3.0Gb	3.5"
Hitachi	Ultrastar 15K450	HUS154545VLS300	A570	450.0GB	15000RPM	16MB	3.0Gb	3.5"
Fujitsu	MAX3 RC	MAX3036RC	0104	36.0GB	15000RPM	16MB	3.0Gb	3.5"
Fujitsu	MBB2 RC	MBB2073RC	0105	73.0GB	10000RPM	16MB	3.0Gb	2.5"
Fujitsu	MBA3 RC	MBA3147RC	0103	147.0GB	15000RPM	16MB	3.0Gb	3.5"

4. SSD Hard Drives

Drive Vendor	Drive Family	Model	FW Version	Capacity	Serial Speed	Form Factor
Intel	X25-E	SSDSA2SH032G1GN	045C8620	32.0GB	3.0GB	2.5"
STEC	MACH8 IOPS	M8ISB2-50UC	1792	50.0GB	1.5GB	2.5"
SanDisk	SATA 5000 2.5"	SDS5C-032G-000000	1.13	32.0GB	1.5GB	2.5"

5. Enclosure / Expander / Backplane List

Vendor	Model	SEP	Bays
Promise	VessJBOD 1000 Series	02.03.0000.00 PMC SES2	16
Promise	J310s	1.07.0000.00 PMC SES2	12
Promise	J610s	1.07.0000.03 PMC SES2	16
Promise	SS4600	SGPIO	4
T-Win	XJ-SA23-316REL	Expander	16
Rackable	SE3016	Promise Tracy Expander	16
Rackable	15-00-00188-R	AMI 9071 SGPIO	4

Vendor	Model	SEP	Bays
AIC	TW-000-52292-AR A0	LC4064 SGPIO	4
Chenbro	80H103215-013-A0	XC9536 SGPIO	4
Chenbro	80H103124	Direct LED	4
Intel	AXX6DRV3G3GEXP	Vitesse 7161 Expander	6
TST		LSI SASX12 Expander	16
Xtore	XJ-SA24-316R	Vitesse VSC7153 SES2	16
Xtore	XJ-SA26-224R	Vitesse VSC7153 SES2	24
AIC	92294-AR	LC4064 SGPIO	4
SUPERMICRO	SC836TQ	AMI 9072 SGPIO	16
SUPERMICRO	SC836EL1	LSI SASX28 Expander	16
SUPERMICRO	SC933EL1	LSI Expander	15
AMI	Backplane 918	AMI 9070 SGPIO	4

6. Operating Systems

● Windows Operating Systems

Windows OS List
Microsoft [®] Windows XP + Service Pack 3 32bit
Microsoft [®] Windows XP + Service Pack 2 64bit
Microsoft [®] Windows 2003 + Service Pack 2 32bit
Microsoft [®] Windows 2003 + Service Pack 2 64bit
Microsoft [®] Windows Vista Ultimate 32bit +SP1
Microsoft [®] Windows Vista Ultimate 64bit +SP1
Microsoft [®] Windows Server 2008 Datacenter 32bit +SP1
Microsoft [®] Windows Server 2008 Datacenter 64bit +SP1
Microsoft [®] Windows Server 2008 Datacenter 64bit +SP1 with Hyper-V

● Linux Operating Systems

Linux OS List
RedHat Linux RHEL 5.2 64 bit(kernel) –Common DRV(kernel 2.6)
RedHat Enterprise Linux5.3 32bit (kernel) -In-box
RedHat Enterprise Linux5.3 64bit (kernel) -In-box
RedHat Enterprise Linux5.3 32bit (kernel) -Drive disk
RedHat Enterprise Linux5.3 64bit (kernel) -Drive disk
SuSE Linux Enterprise Server 11 32bit (UP kernel) -In-box
SuSE Linux Enterprise Server 11 64bit (SMP kernel)-In-box
SuSE Linux Enterprise Server 11 32bit (UP kernel) -Common DRV(kernel 2.6)
SuSE Linux Open 11 64 bit -Common DRV(kernel 2.6)

- **FreeBSD Operating Systems**

FreeBSD OS List
FreeBSD 6.4 32bit -
FreeBSD 6.4 64bit
FreeBSD 7.1 32bit
FreeBSD 7.1 64bit

- **VMware Operating Systems**

VMware OS List
VMware ESX Server v3.5 Update 4
VMware ESX Server v3.5 Update 5
VMware ESX Server v4.1

Note: VMware has been certified by VMware.