

WD Compatibility Summary

WD has been working with industry partners to make certain that the infrastructure is available to take advantage of the benefits of Serial ATA. We are performing extensive compatibility testing with chipsets, server motherboards, host bus adapters and RAID cards to ensure our drives are compatible with these components.

SATA Host Bus Adapters

The host bus adapters listed below were tested with Windows® XP Professional and/or Windows Server 2003 and Linux distributions when drivers were available. RAID configuration testing was limited to RAID 0 and 1 for workstation solutions and RAID 0, 1, and 5 for server solutions. Each of the host bus adapters underwent a battery of tests designed to validate functional compatibility between the host bus adapter and the drive family.

Host Adapters

Mfr.	Model Series	SATA 300 MB/s Compatible	RAID Support	SATA Ports
LSI Logic	MegaRAID 300-8x	X	0/1/10/5	8
Highpoint	RocketRAID 1820A RocketRAID 2220	X	0/1/10	8
Promise	FastTrak TX2300 FastTrak TX4300 FastTrak TX2200 FastTrak TX4200	X	0/1/10	4
Silicon Image	Sil 3124-2 Sil 3132	X	0/1/10	4

SATA Motherboard Chipsets

The motherboards listed below were tested with Windows XP Professional and/or Windows Server 2003. Each of the systems was tested using a battery of tests designed to verify functional interoperability. RAID configuration testing was limited to 0, 1, and 5 where supported.

Workstation / High Performance PC

Chipset Mfr.	Chipset	300 MB/s Compatible	MB Mfr.	MB Model	MB Processor	RAID Support	SATA Ports
Intel	Intel 915	X	Asus	P5AD2-E	Intel	0/1/10	4
	Intel 925	X	Intel	D925CV	Intel	0/1/10	4
	Intel 945	X	Asus	P5WD2-E	Intel	0/1/10	4
	Intel 955	X	Intel	D955XBK	Intel	0/1/10	4
nVidia	nForce4 SLI	X	Asus	A8N-E	AMD Athlon 64	0/1/10	4
	nForce 4 Ultra	X	MSI	K8N-Neo4	AMD Athlon 64	0/1/10	4
	nForce 4	X	Abit	Fatal1ty A8N	AMD Athlon 64	0/1/10	4
	nForce 4	X	Tyan	Thunder K8WE	AMD Opeteron 64	0/1/10	4
	nForce Pro	X	Gigabyte		AMD Athlon 64	0/1/10	4

SATA Host Bus Adapters

The host bus adapters listed below were tested with Windows XP Professional and/or Windows® Server 2003 and Linux distributions when drivers were available. RAID configuration testing was limited to RAID 0 and 1 for workstation solutions and RAID 0, 1, and 5 for server solutions. Each of the host bus adapters underwent a battery of tests designed to validate functional compatibility between the host bus adapter and the drive family.

Host Bus Adapters

Mfr.	Model Series	SATA NCQ Compatible	RAID Support	SATA Ports
LSI Logic	MegaRAID 300-8x	X	0/1/10/5	8
HighPoint	RocketRAID 1820A RocketRAID 2220	X	0/1/10	8
Promise	FastTrak TX2300 FastTrak TX4300 FastTrak TX2200 FastTrak TX4200	X	0/1/10	4
Silicon Image	Sil 3124-2 Sil 3132	X	0/1/10	4

SATA Motherboard Chipsets

The motherboards listed below were tested with Windows XP Professional and/or Windows Server 2003. Each of the systems was tested using a battery of tests designed to verify functional interoperability. RAID configuration testing was limited to 0, 1, and 5 where supported.

Workstation / High Performance PC

Chipset Mfr.	Chipset	SATA NCQ Compatible	MB Mfr.	MB Model	MB Processor	RAID Support	SATA Ports
Intel	Intel 915	X	Asus	P5AD2-E	Intel	0/1/10	4
	Intel 925	X	Intel	D925CV	Intel	0/1/10	4
	Intel 945	X	Asus	P5WD2-E	Intel	0/1/10	4
	Intel 955	X	Intel	D955XBK	Intel	0/1/10	4
nVidia	nForce4 SLI	X	Asus	A8N-E	AMD Athlon 64	0/1/10	4
	nForce 4 Ultra	X	MSI	K8N-Neo4	AMD Athlon 64	0/1/10	4
	nForce 4	X	Abit	Fatal1ty A8N	AMD Athlon 64	0/1/10	4
	nForce 4	X	Tyan	Thunder K8WE	AMD Opeteron 64	0/1/10	4
	nForce Pro	X	Gigabyte		AMD Athlon 64	0/1/10	4

Motherboards

Workstation Solutions

Mfr.	Model Series	Description	TCQ Support
Adaptec	1210SA	Workstation HBA featuring two internal ports and RAID functionality.	
Firmitex	SeriTek/1S2	Apple workstation support with 2 ports internal SATA.	
HighPoint	RocketRAID 1520 RocketRAID 1540 RocketRAID 1542 RocketRAID 1640	Workstation and server HBAs with 2 ports internal featuring RAID functionality.	
LSI Logic	MegaRAID 150-2	Workstation HBA featuring two internal ports and RAID functionality.	
Promise	SATA 150TX2Plus SATA 150TX4 FastTrak S150 TX2+ FastTrak S150 TX4	Server and workstation HBA featuring RAID functionality providing 2 to 4 ports.	
Pacific Digital	Talon ZL-2 Talon ZL-4	Workstation host controller both 2 and 4 port models with the support of Tagged Command Queuing (TCQ)	Yes
SIIG	SC-SAT212 SC-SAT214	Host bus adapter with 2 internal ports.	

Server Solutions

Mfr	Model Series	Description	TCQ Support
3ware	Escalade 8500 Escalade 8506	Server and workstation HBA featuring RAID functionality providing 4, 8, and 12 ports.	
Adaptec	2410SA 2810SA	Server and workstation HBA featuring RAID functionality providing 4 ports.	
HighPoint	RocketRAID 1820a	8 port RAID controller featuring support of Tagged Command Queuing (TCQ).	
Intel	SRCS14L	Host bus adapter solution for entry and mid-level servers, providing 4 ports, and featuring RAID functionality.	
LSI Logic	MegaRAID 150-4 MegaRAID 150-6	Server and workstation HBA featuring RAID functionality providing 4 and 6 ports.	
Pacific Digital	RAIDStaQ SATA150	4 port RAID controller featuring support of Tagged Command Queueing (TCQ)	Yes
Promise	FastTrak S150 TX4	Server and workstation HBA featuring RAID functionality providing 4 ports.	

Motherboards

The motherboards listed below were tested with Windows 2000 Professional and/or Advanced Server. Each of the systems underwent a battery of tests designed to verify functional interoperability. RAID configuration testing was limited to 0, 1, and 5 where supported.

Workstation / High Performance PC Solutions

Chipset	SATA Chip	Mfr.	Model	CPU	RAID Support	SATA Ports
Intel 845 PE (Northbridge) Intel ICH4 (Southbridge)	Silicon Image 3112a	Intel	845PEBT2	Intel P4	n/a	2
	Promise PDC 20375	AOPEN	AX4PE MAX	Intel P4	n/a	2
Intel 865 (Northbridge) Intel ICH5R (Southbridge)	ICH5R	Chaintech	Apogee 9PJL	Intel P4	0, 1	2
	ICH5R	MSI	PEM2-IL	Intel P4	0, 1	2
	ICH5R	ASUS	P4P800	Intel P4	n/a	2
Intel 875 (Northbridge) Intel ICH5R(Southbridge)	Intel ICH5/R Promise PDC20378	MSI	875P Neo- FIS2R	Intel P4	0, 1	4
	Intel ICH5/R Promise PDC20378	Asus	P4C800	Intel P4	0, 1	4
	Intel ICH5/R	Intel	D875PBZ	Intel P4	0 (XP driver)	2
nVidia nForce2	Promise PDC 20375	AOPEN	AK79G MAX	AMD Athlon	n/a	2
SiS 648 (Northbridge) SiS 963 (Southbridge)	Promise PDC 20376	Asus	P4S8X	Intel P4	0, 1	2
Via KT400 (Northbridge) Via VT8235 (Southbridge)	Silicon Image 3112a	TYAN	Trinity KT400	AMD Athlon	n/a	2

Server

Chipset	SATA Chip	Mfr.	Model	CPU	Raid Support	SATA Ports
Intel E7505	Sil 3112A	Intel	SE7505VB2	Dual Xeon	0, 1	2
	Sil 3112a	SuperMicro	X5DAL-TG2	Dual Xeon	0, 1 natively 5 with Intel Caldwell PCI card	4
Intel 875 (Northbridge) Intel ICH5R (Southbridge)	Intel ICH5/R	SuperMicro	P4SCE	Intel P4	0, 1	2