



RAIDIX 5.2 HARDWARE COMPATIBILITY LIST

Document version 1.0

CONTENTS

Common Hardware Components.....	3
1. Supported Hardware Components with compatibility confirmed by the RAIDIX QA team	4
1.1 Interfaces.....	4
1.2 Other Components.....	7
2. Hardware Components supported at the driver level.....	10
2.1 Interfaces.....	10
2.2 Other Components.....	12

COMMON HARDWARE COMPONENTS

Type of Hardware Component	Model
Processor	Intel Nehalem and newer; AMD EPYC.
HDD	RAIDIX 5.2 supports all SATA/SAS/NL-SAS HDDs without encryption, except SMR HDDs.
SSD/SSD NVMe	RAIDIX 5.2 supports all SATA/SAS SSD/SSD NVMe drives without encryption.
Motherboard	RAIDIX 5.2 supports most motherboard models compatible with Intel CPUs (Nehalem generation and higher) and AMD EPYC CPUs. If you meet compatibility issues, please, contact RAIDIX Support department.
RAM	To select RAM, see motherboard-RAM compatibility lists.
SAS JBOD	RAIDIX 5.2 is compatible with most SAS JBODs. If you meet compatibility issues, please, contact RAIDIX Support department.
UPS	RAIDIX 5.2 supports Uninterruptible Power Supplies compatible with Network UPS Tools (NUT)

1. SUPPORTED HARDWARE COMPONENTS WITH COMPATIBILITY CONFIRMED BY THE RAIDIX QA TEAM

1.1 Interfaces

Hardware Component	Model	Supported Functions		
		Connection to Drives (Initiator)	Target	Cache synchronization in DC
SAS	Microsemi			
	Microsemi Adaptec HBA 1100 (firmware 2.62)	Yes	-	-
	SmartHBA 2100 (firmware 2.62)	Yes	-	-
	Dell			
	Dell PERC H330	Yes	-	-
	Dell PERC H730	Yes	-	-
	Intel			
	Intel AXX4SAMOD	Yes	-	-
	Broadcom (LSI)			
	SAS 9300-8e	Yes	-	Yes
	SAS 9300-8i	Yes	-	-
	SAS 9305-16i ¹	Yes	-	-
	SAS 9305-16e	Yes	-	Yes
	SAS 9400-16e	Yes	-	Yes ²
	SAS 9400-16i	Yes	-	-
	SAS 9400-8e	Yes	-	Yes ²
	SAS 9400-8i	Yes	-	-
	SAS 9400-8i8e	Yes	-	-
	SAS 9405W-16e	Yes	-	-
	SAS 9405W-16i	Yes	-	-
	SAS 9500-8i	Yes	-	-
	SAS 9500-16i	Yes	-	-
	SAS 9500-8e	Yes	-	-
	SAS 9500-16e	Yes	-	-
	Hewlett Packard Enterprise (HPE)			
	HPE P408i-a SR Gen 10	Yes	-	-

¹ The LED indicators do not work correctly while drives connected directly to the adapter.

² Only with the 03.00.05.00 firmware dated 07/14/2017. To use a newer firmware, you should:

1. make sure the current adapter firmware is 03.00.05.00 or 02.00.05.00;
2. make sure Target mode is enabled for at least one adapter port;
3. update the firmware to a newer version.

Hardware Component	Model	Supported Functions		
		Connection to Drives (Initiator)	Target	Cache synchronization in DC
	HPE E208i-p SR Gen 10	Yes	-	-
FC HBA	ATTO			
	ATTO CTFC-161E/162E/164E 16 Gbit	-	Yes	-
	ATTO CTFC-81EN/82EN/84EN-000 8 Gbit	-	Yes	-
	ATTO CTFC-322E 32 Gbit	-	Yes	-
	HPE			
	HPE StoreFabric SN1100Q 16Gb Dual Port	-	Yes	-
	Qlogic			
	QLogic QLE256x 8 Gbit	-	Yes	-
	QLogic QLE266x 16 Gbit	-	Yes	-
	QLogic QLE2670 16 Gbit	-	Yes	-
	QLogic QLE2672 16 Gbit	-	Yes	-
	QLogic QLE2690 16 Gbit	-	Yes	-
	QLogic QLE2692 16 Gbit	-	Yes	-
	QLogic QLE2694 16 Gbit	-	Yes	-
	QLogic QLE2740 32 Gbit	-	Yes	-
QLogic QLE2742 32 Gbit	-	Yes	-	
InfiniBand HBA	NVIDIA (Mellanox)			
	ConnectX-4 VPI EDR	-	SRP, iSCSI	SRP, iSCSI
	ConnectX VPI SDR/QDR/FDR10/FDR	-	SRP, iSCSI	SRP, iSCSI
	ConnectX VPI 10GbE	-	SRP, iSCSI	SRP, iSCSI
	ConnectX-5 Ex VPI EDR/100GbE (MCX556A-EDAT)	-	SRP, iSCSI	SRP, iSCSI
	ConnectX-6 VPI HDR100/EDR/100GbE (MCX653106A-ECAT-SP)	-	SRP, iSCSI	SRP, iSCSI
ConnectX-6 VPI HDR/200GbE (MCX653106A-HDAT-SP)	-	SRP, iSCSI	SRP, iSCSI	
Ethernet HBA	Intel			
	Intel 82574 series	-	iSCSI	iSCSI
	Intel 82576 series	-	iSCSI	iSCSI
	Intel 82577 series	-	iSCSI	iSCSI
	Intel 82578 series	-	iSCSI	iSCSI
	Intel 82579 series	-	iSCSI	iSCSI
	Intel 82580 series	-	iSCSI	iSCSI
	Intel 82598 series	-	iSCSI	iSCSI
	Intel 82599 series	-	iSCSI	iSCSI
	Intel Ethernet Connection I217 series	-	iSCSI	iSCSI
	Intel Ethernet Connection I218 series	-	iSCSI	iSCSI
	Intel Ethernet Controller I210	-	iSCSI	iSCSI
Intel Ethernet Server Adapter I350	-	iSCSI	iSCSI	

Hardware Component	Model	Supported Functions		
		Connection to Drives (Initiator)	Target	Cache synchronization in DC
	Intel PRO/1000 PF	-	iSCSI	iSCSI
	Intel PRO/1000 PT	-	iSCSI	iSCSI
	Intel X520 series	-	iSCSI	iSCSI
	Intel X540 series	-	iSCSI	iSCSI
	Intel X550 series	-	iSCSI	iSCSI
	Intel X710 series	-	iSCSI	iSCSI
	QLogic			
	QLE3442-SR	-	iSCSI	iSCSI
	QLE8442-SR	-	iSCSI	iSCSI
	NVIDIA (Mellanox)			
	ConnectX-4 EN	-	iSCSI	iSCSI

1.2 Other Components

Hardware Component	Model
Processor	Intel Nehalem and later versions
HDD	Most of SATA, SAS, or NL-SAS HDDs, except HDD with SMR technology and some HDDs with 4KN block size.
SSD	Most of SATA, SAS SSD
PCIe SSD for SSD cache	Intel
	Intel P3700 series
	SanDisk
	SanDisk Fusion ioMemory SX-350
Platform	AIC
	AIC HA202-PV
	AIC HA201-TP
	AIC HA201-TP
	AIC HA401-LB2
	AIC SB203-UR
	AQUARIUS
	AQUARIUS T40 S212DF-V
	AQUARIUS T50 D212BJ
	ASUS
	ASUS RS500A-E10-RS12U
	ASUS RS500A-E10-RS12U
	Chenbro
	Chenbro RM41736
	Dell
	Dell PowerEdge R730xd
	Echostreams
	Echostreams DSS316S-D4
	Echostreams DSS316J-S3
	Echostreams DuraStreams DSS212
	Echostreams DuraStreams DSS320
	Echostreams eDrawer4048S-D4
	Echostreams eDrawer4048J-S3
	Echostreams eDrawer4060J-S3
	Echostreams eDrawer4096J-S2
	Echostreams FlacheSAN1L-D4
	Echostreams FlacheSAN2-D4
	Echostreams FlacheStreams FlacheSAN1L
	Echostreams FlacheStreams FlacheSAN2
	Echostreams ScaleStreams eDrawer4048S
	GIGABYTE

Hardware Component	Model
	GIGABYTE R272-Z31
	GIGABYTE R272-Z32
	HPE
	HPE PROLIANT DL380 GEN10
	HPE PROLIANT DL385 GEN10 PLUS
	HPE PROLIANT APOLLO 4510 GEN10
	HPE Apollo 4200 Gen10 Plus
	Huawei
	Huawei RH2288v3
	ICL Tehno
	SDS ICL teamRay
	Lenovo
	Lenovo ThinkSystem SR650 Server
	Rikor
	Rikor RP5208-PB35-800HS
	RIKOR RP 6212
	RIKOR RP 6104
	Seagate
	SEAGATE EXOS AP 5U84
	Sitronics
	SITRONICS SRH2221 V5
	Supermicro
	Supermicro 2028R-TXR
	Supermicro 6048R-TXR
	SNR
	SNR-SR2216
	Western Digital
	Western Digital Ultrastar Serv60+8
	Гравитон
	Гравитон C2122ИР
Гравитон C2244ИР	
Enclosure	AIC
	J4078-01
	Bytescale
	8U Velox
	HP
	HP StorageWorks D2700 Disk Enclosure
	Lenovo
	Lenovo Storage D3284 External High Density Drive Expansion Enclosure
Seagate	
Seagate SP-3584	

Hardware Component	Model
	Seagate Exos E 4U106
	Supermicro
	SuperMicro CSE-M35TQ
	Quanta
	Quanta JB4602
	Western Digital
	Western Digital Ultrastar Data 60 Hybrid Storage Platform
	Western Digital Ultrastar Data 102 Hybrid Storage Platform
Western Digital Ultrastar 2u24	
Internal Cache Memory	Choose the memory according to the compatibility lists of servers and motherboards.
Motherboard	The motherboard must be compatible with the model of the processor and must support PCI Express x8/x16.
	3Logic Group
	3Logic Group Tundra SMB-C621-EEB
	AIC
	AIC Libra
	Rikor
	Rikor R-BD-E5R-V4-16-EA_ver5
	Supermicro
	Supermicro X10DRX
	Supermicro X10SRH-CF
	Supermicro X11DPI-N
Supermicro X11DPL-i	

2. HARDWARE COMPONENTS SUPPORTED AT THE DRIVER LEVEL

2.1 Interfaces

Hardware Component	Model	Supported Functions		
		Connection to Drives (Initiator)	Target	Cache synchronization in DC
SAS	Adaptec			
	Adaptec 6405H	Yes	-	-
	Adaptec 6805H	Yes	-	-
	Adaptec RAID controllers and HBA adapters 7,8 series ³	Yes	-	-
	Broadcom (LSI)			
	SAS 3008 chipset	Yes	-	-
	SAS 9300-4i	Yes	-	-
	SAS 9300-4i4e	Yes	-	Yes
	SAS 9300-16e	Yes	-	Yes
	SAS 9300-16i	Yes	-	-
	SAS 9302-16e	Yes	-	Yes
	SAS 9311-4i4e	Yes	-	Yes
	SAS 9311-8i	Yes	-	-
FC HBA	ATTO			
	ATTO CTFC-161P/162P/164P 16 Gbit	-	Yes	-
	ATTO CTFC-321P/322P/324P 32 Gbit	-	Yes	-
	ATTO CTFC-321E/324E 32 Gbit	-	Yes	-
Ethernet HBA	Emulex			
	Emulex OCe11101	-	iSCSI	iSCSI
	Emulex OCe11102	-	iSCSI	iSCSI
	Emulex OCe14000 series	-	iSCSI	iSCSI
	Intel			
	Intel XL710 series	-	iSCSI	iSCSI
	Intel XXV710 series	-	iSCSI	iSCSI
	Intel X722 series	-	iSCSI	iSCSI
	Intel 800 series	-	iSCSI	iSCSI
	NVIDIA (Mellanox)			
	ConnectX EN (MT25448) 10GigE Ethernet Adapter	-	iSCSI	iSCSI
	ConnectX EN (MT25458) 10GigE 10GBaseT Ethernet Adapter	-	iSCSI	iSCSI
	ConnectX EN (MT26448) 10GigE Ethernet Adapter	-	iSCSI	iSCSI

³ No LED indicators support for Adaptec.

Hardware Component	Model	Supported Functions		
		Connection to Drives (Initiator)	Target	Cache synchronization in DC
	ConnectX EN (MT26458) 10GigE 10GBaseT Ethernet Adapter	-	iSCSI	iSCSI
	ConnectX EN (MT26468) 10GigE Ethernet Adapter	-	iSCSI	iSCSI
	ConnectX EN (MT26478) 40GigE Ethernet Adapter	-	iSCSI	iSCSI
	ConnectX-5 EN 100GigE Ethernet Adapter	-	iSCSI	iSCSI
InfiniBand HBA	NVIDIA (Mellanox)			
	ConnectX VPI (MT25408) IB SDR/10GigE	-	SRP, iSCSI	SRP, iSCSI
	ConnectX VPI (MT25418) IB DDR/10GigE	-	SRP, iSCSI	SRP, iSCSI
	ConnectX VPI (MT26418) IB DDR/10GigE	-	SRP, iSCSI	SRP, iSCSI
	ConnectX VPI (MT26428) IB QDR/10GigE	-	SRP, iSCSI	SRP, iSCSI
	ConnectX VPI (MT26438) IB QDR/10GigE	-	SRP, iSCSI	SRP, iSCSI
	ConnectX VPI (MT26488) IB DDR/10GigE	-	SRP, iSCSI	SRP, iSCSI
	ConnectX-5 VPI EDR/100GBE	-	SRP, iSCSI	SRP, iSCSI
	InfiniHost (MT23108)	-	SRP, iSCSI	SRP, iSCSI
	InfiniHost (MT25208)	-	SRP, iSCSI	SRP, iSCSI
	InfiniHost III Ex (MT25218)	-	SRP, iSCSI	SRP, iSCSI
	InfiniHost III Lx (MT24204)	-	SRP, iSCSI	SRP, iSCSI
	InfiniHost III Lx (MT25204)	-	SRP, iSCSI	SRP, iSCSI

2.2 Other Components

Hardware Component	Model
PCIe SSD for SSD cache	Intel
	Intel P3500 series
	Intel P3600 series
	SanDisk
	SanDisk Fusion ioMemory PX600
	SanDisk Fusion ioMemory SX300
Enclosure	RAIDIX 5.2 is compatible with most of the known enclosures. If you have compatibility problems, please, contact the RAIDIX support team.
Internal Cache Memory	Choose the memory according to the compatibility lists of servers, CPU, motherboards.
Motherboard	RAIDIX 5.2 supports most motherboard models compatible with Intel CPUs (Nehalem generation and higher) and AMD EPYC CPUs. If you have compatibility problems, please, contact RAIDIX support team.