



RAIDIX 5.1 HARDWARE COMPATIBILITY LIST

Document version 1.0

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COMMON HARDWARE COMPONENTS

Type of Hardware Component	Model
Processor	Intel Nehalem and newer; AMD EPYC.
HDD	RAIDIX 5.1 supports all SATA/SAS/NL-SAS HDDs without encryption, except SMR HDDs.
SSD/SSD NVMe	RAIDIX 5.1 supports all SATA/SAS SSD/SSD NVMe drives without encryption.
Motherboard	RAIDIX 5.1 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 5.1 is compatible with most SAS JBODs. If you meet compatibility issues, please, contact RAIDIX Support department.
UPS	RAIDIX 5.1 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			
	SAS 9300-8e Host Bus Adapter	Yes	Yes ¹	Yes
	SAS 9300-8i Host Bus Adapter	Yes	-	-
	SAS 9305-16i Host Bus Adapter ²	Yes	-	-
	SAS 9305-16e Host Bus Adapter	Yes	Yes ¹	Yes
	SAS 9400-16e Host Bus Adapter	Yes	Yes ^{1 3}	Yes ³
	SAS 9400-16i Host Bus Adapter	Yes	-	-
	SAS 9400-8e Host Bus Adapter	Yes	Yes ^{1 3}	Yes ³
	SAS 9400-8i Host Bus Adapter	Yes	-	-
	SAS 9400-8i8e Host Bus Adapter	Yes	-	-
	SAS 9405W-16e Host Bus Adapter	Yes	-	-
	SAS 9405W-16i Host Bus Adapter	Yes	-	-
Hewlett Packard Enterprise (HPE)				
HPE P408i-a SR Gen 10	Yes	-	-	
HPE E208i-p SR Gen 10	Yes	-	-	
FC HBA	ATTO			
	ATTO CTFC-161EN/162EN/164EN 16 Gbit	-	Yes	-

¹ Only for Linux hosts.

² The LED indicators do not work correctly while drives connected directly to the adapter.

³ 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
	ATTO CTFC-81EN/82EN/84EN-000 8 Gbit	-	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	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
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
	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	
Mellanox				

Hardware Component	Model	Supported Functions		
		Connection to Drives (Initiator)	Target	Cache synchronization in DC
	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
	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
	GIGABYTE R272-Z31
	GIGABYTE R272-Z32
	Huawei

Hardware Component	Model
	<p>Huawei RH2288v3</p> <p>ICL Tehno</p> <p>SDS ICL teamRay</p> <p>Lenovo</p> <p>Lenovo ThinkSystem SR650 Server</p> <p>Rikor</p> <p>Rikor RP5208-PB35-800HS</p> <p>Supermicro</p> <p>Supermicro 2028R-TXR</p> <p>Supermicro 6048R-TXR</p> <p>SNR</p> <p>SNR-SR2216</p> <p>Western Digital</p> <p>Western Digital Ultrastar Serv60+8</p>
Enclosure	<p>AIC</p> <p>J4078-01</p> <p>Bytescale</p> <p>8U Velox</p> <p>HP</p> <p>HP StorageWorks D2700 Disk Enclosure</p> <p>Lenovo</p> <p>Lenovo Storage D3284 External High Density Drive Expansion Enclosure</p> <p>Seagate</p> <p>Seagate SP-3584</p> <p>Seagate Exos E 4U106</p> <p>Supermicro</p> <p>SuperMicro CSE-M35TQ</p> <p>Quanta</p> <p>Quanta JB4602</p> <p>Western Digital</p> <p>Western Digital Ultrastar Data 60 Hybrid Storage Platform</p> <p>Western Digital Ultrastar Data 102 Hybrid Storage Platform</p> <p>Western Digital Ultrastar 2u24</p>
Internal Cache Memory	<p>Choose the memory according to the compatibility lists of servers and motherboards.</p>
Motherboard	<p>The motherboard must be compatible with the model of the processor and must support PCI Express x8/x16.</p> <p>AIC</p> <p>AIC Libra</p> <p>Rikor</p> <p>Rikor R-BD-E5R-V4-16-EA_ver5</p>

Hardware Component	Model
	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 ⁴	Yes	-	-
	LSI			
	LSI 3008 chipset	Yes	-	-
	LSI SAS 9300-4i	Yes	-	-
	LSI SAS 9300-4i4e	Yes	Yes ⁵	Yes
	LSI SAS 9300-16e	Yes	Yes ⁵	Yes
	LSI SAS 9300-16i	Yes	-	-
	LSI SAS 9302-16e	Yes	Yes ⁵	Yes
	LSI SAS 9311-4i4e	Yes	Yes ⁵	Yes
	LSI SAS 9311-8i	Yes	-	-
	LSI SAS 9500-8i	Yes	-	-
	LSI SAS 9500-16	Yes	-	-
	LSI SAS 9500-8e	Yes	-	-
LSI SAS 9500-16ei	Yes	-	-	
FC HBA	ATTO			
	ATTO Celerity FC-321E 32 Gbit	-	Yes	-
	ATTO Celerity FC-322E 32 Gbit	-	Yes	-
	ATTO Celerity FC-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

⁴ No LED indicators support for Adaptec.

⁵ Only for Linux hosts.

Hardware Component	Model	Supported Functions		
		Connection to Drives (Initiator)	Target	Cache synchronization in DC
	Intel 800 series	-	iSCSI	iSCSI
	Mellanox			
	Mellanox ConnectX EN (MT25448) 10GigE Ethernet Adapter	-	iSCSI	iSCSI
	Mellanox ConnectX EN (MT25458) 10GigE 10GBaseT Ethernet Adapter	-	iSCSI	iSCSI
	Mellanox ConnectX EN (MT26448) 10GigE Ethernet Adapter	-	iSCSI	iSCSI
	Mellanox ConnectX EN (MT26458) 10GigE 10GBaseT Ethernet Adapter	-	iSCSI	iSCSI
	Mellanox ConnectX EN (MT26468) 10GigE Ethernet Adapter	-	iSCSI	iSCSI
	Mellanox ConnectX EN (MT26478) 40GigE Ethernet Adapter	-	iSCSI	iSCSI
	Mellanox ConnectX-5 EN 100GigE Ethernet Adapter	-	iSCSI	iSCSI
InfiniBand HBA	Mellanox			
	Mellanox ConnectX VPI (MT25408) IB SDR/10GigE	-	SRP, iSCSI	SRP, iSCSI
	Mellanox ConnectX VPI (MT25418) IB DDR/10GigE	-	SRP, iSCSI	SRP, iSCSI
	Mellanox ConnectX VPI (MT26418) IB DDR/10GigE	-	SRP, iSCSI	SRP, iSCSI
	Mellanox ConnectX VPI (MT26428) IB QDR/10GigE	-	SRP, iSCSI	SRP, iSCSI
	Mellanox ConnectX VPI (MT26438) IB QDR/10GigE	-	SRP, iSCSI	SRP, iSCSI
	Mellanox ConnectX VPI (MT26488) IB DDR/10GigE	-	SRP, iSCSI	SRP, iSCSI
	Mellanox ConnectX-5 VPI 100GigE	-	SRP, iSCSI	SRP, iSCSI
	Mellanox InfiniHost (MT23108)	-	SRP, iSCSI	SRP, iSCSI
	Mellanox InfiniHost (MT25208)	-	SRP, iSCSI	SRP, iSCSI
	Mellanox InfiniHost III Ex (MT25218)	-	SRP, iSCSI	SRP, iSCSI
	Mellanox InfiniHost III Lx (MT24204)	-	SRP, iSCSI	SRP, iSCSI
	Mellanox 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 5.1 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 5.1 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.