



## RAIDIX 5.0.1 HARDWARE COMPATIBILITY LIST

Версия документа 1.0

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## COMMON HARDWARE COMPONENTS

Type of Hardware Component	Model
Processor	Intel Nehalem and newer; AMD EPYC.
HDD	RAIDIX 5.0.x supports all SATA/SAS/NL-SAS HDDs without encryption, except SMR HDDs.
SSD/SSD NVMe	RAIDIX 5.0.x supports all SATA/SAS SSD/SSD NVMe drives without encryption.
NVDIMM	Micron NVDIMM-N Jedec (motherboard must support NVDIMM-N Jedec and ACPI 6.0). Actual models are numbered in Hardware Compatibility List.
Motherboard	RAIDIX 5.0.x is compatible with most Intel Nehalem and other motherboard models with similar or better CPUs. If you meet compatibility issues, please, contact RAIDIX Support department.
RAM	To select RAM, see motherboard-RAM compatibility lists.
SAS JBOD	RAIDIX 5.0.x is compatible with most SAS JBODs. If you meet compatibility issues, please, contact RAIDIX Support department.
UPS	RAIDIX 5.0.x supports Uninterruptible Power Supplies compatible with <a href="#">Network UPS Tools (NUT)</a>

# 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	<b>Microsemi</b>			
	Microsemi Adaptec HBA 1100 (firmware 2.62)	Yes	-	-
	SmartHBA 2100 (firmware 2.62)	Yes	-	-
	<b>Dell</b>			
	Dell PERC H330	Yes	-	-
	Dell PERC H730	Yes	-	-
	<b>Intel</b>			
	Intel AXX4SAMOD	Yes	-	-
	<b>LSI</b>			
	LSI SAS 9300-8e Host Bus Adapter	Yes	Yes	Yes
	LSI SAS 9300-8i Host Bus Adapter	Yes	Yes	Yes
	LSI SAS 9305-16i Host Bus Adapter <sup>1</sup>	Yes	Yes	Yes
	LSI SAS 9305-16e Host Bus Adapter	Yes	Yes	Yes
	LSI SAS 9400-16e Host Bus Adapter	Yes	Yes	Yes
	LSI SAS 9400-16i Host Bus Adapter	Yes	Yes	Yes
LSI SAS 9400-8i Host Bus Adapter	Yes	Yes	Yes	
FC HBA	<b>ATTO</b>			
	ATTO CTFC-161EN/162EN/164EN 16 Gbit	-	Yes	-
	ATTO CTFC-81EN/82EN/84EN-000 8 Gbit	-	Yes	-
	<b>Qlogic</b>			
	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	-	
InfiniBand HBA	<b>Mellanox</b>			
	ConnectX-3 PRO VPI 10/40/56GbE	-	SRP, iSCSI	SRP, iSCSI
	ConnectX-3 PRO VPI QDR/FDR10/FDR	-	SRP, iSCSI	SRP, iSCSI
	ConnectX-3 VPI QDR/FDR10/FDR	-	SRP, iSCSI	SRP, iSCSI

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

Hardware Component	Model	Supported Functions		
		Connection to Drives (Initiator)	Target	Cache synchronization in DC
	ConnectX-3 VPI 10/40/56GbE	-	SRP, iSCSI	SRP, iSCSI
	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	<b>Intel</b>			
	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
	<b>SolarFlare</b>			
	SFN5152F Single Port 10G	-	iSCSI	iSCSI
	<b>Mellanox</b>			
ConnectX-3 EN	-	iSCSI	iSCSI	
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
NVDIMM	<b>Micron</b>
	Micron NVDIMM-N Module 16 GB: MTA18ASF2G72PF1Z-2G6; MTA18ASF2G72PF1Z-2G6; MTA18ASF2G72PF1Z-2G9. The power source AGIGA9811-001JCA
PCIe SSD for SSD cache	<b>Intel</b>
	Intel P3700 series
	<b>SanDisk</b>
	SanDisk Fusion ioMemory SX-350
	<b>HGST</b>
	Ultrastar SN150 PCIe SSD
Platform	<b>AIC</b>
	AIC HA201-TP
	AIC HA401-CP2
	AIC HA401-LB2
	AIC RSC-5BH
	AIC SB302-CP2 (PSG-SB-3URCP2DP0101)
	AIC SB401-CP2 (PSG-SB-4URCP2DP0101)
	AIC SB402-CP2 (PSG-SB-4URCP2DP0201)
	<b>AQUARIUS</b>
	AQUARIUS T40 S212DF-V
	<b>Chenbro</b>
	Chenbro RM41736
	<b>Cisco</b>
	Cisco USC C 200 M2
	Cisco USC C 210 M2
	<b>Dell</b>
	Dell PowerEdge R730xd
	<b>Echostreams</b>
	Echostreams DSS316S-D4
	Echostreams DSS316J-S3
	Echostreams DuraStreams DSS212
	Echostreams DuraStreams DSS320
Echostreams eDrawer4048S-D4	
Echostreams eDrawer4048J-S3	

Hardware Component	Model
	Echostreams eDrawer4060J-S3
	Echostreams eDrawer4096J-S2
	Echostreams FlacheSAN1L-D4
	Echostreams FlacheSAN2-D4
	Echostreams FlacheStreams FlacheSAN1L
	Echostreams FlacheStreams FlacheSAN2
	Echostreams ScaleStreams eDrawer4048S
	<b>HP</b>
	HP DL180 G6 487508
	<b>Huawei</b>
	Huawei RH2288v3
	<b>Intel</b>
	Intel SR2612UR
	<b>Lenovo</b>
	Lenovo System x3550 M5
	Lenovo System x3650 M5
	<b>Supermicro</b>
	Supermicro 2027B-DE2R24L
	Supermicro 2028R-TXR
	Supermicro 6037B-DE2R16L
	Supermicro 6037R-E1R16L
	Supermicro 6038R-TXR
	Supermicro 6048R-TXR
	Supermicro CSE-216E1
	Supermicro CSE-216E16
	Supermicro CSE-745TQ-R800B
	Supermicro CSE-826TQ-R800LPB
	Supermicro CSE-836E1
	Supermicro CSE-836E16
	Supermicro CSE-836E2
	Supermicro CSE-846E16-R1200B
	Supermicro SC826TQ-R800LPB
	Supermicro SC846TQ-R900B
	Supermicro SC847A-R1400LPB
<b>Enclosure</b>	<b>AIC</b>
	AIC 4076-01
	AIC J5090-01
	AIC XJ3000-4603S
	<b>Bytescale</b>
	8U Velox
	<b>HGST</b>

Hardware Component	Model
	HGST 4U60 Storage Enclosure [2x2x4 SAS 12Gb/s]
	HP
	HP StorageWorks D2700 Disk Enclosure
	Supermicro
	SuperMicro CSE-M35TQ
	Quanta Quanta JB4602
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.
	AIC
	AIC Libra
	Chenbro
	Chenbro RM41736 (server motherboard)
	Cisco
	Cisco USC C 200 M2 (server motherboard)
	Cisco USC C 210 M2 (server motherboard)
	HP
	HP DL180 G6
	Intel
	Intel S2600CP
	Intel S2600CP2
	Intel Server Board S5520UR
	Supermicro
	Supermicro X10DRX
	Supermicro X10SRH-CF
	Supermicro X11DPi-N BIOS version 2.0
	Supermicro X8DT6-O
	Supermicro X8DTH-6F
	Supermicro X8SIL
	Supermicro X8ST3-F
	Supermicro X8ST3-F-O
	Supermicro X9DRD-7LN4F-JBOD
Supermicro X9SCM-F	



## 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	<b>Adaptec</b>			
	Adaptec 6405H	Yes	-	-
	Adaptec 6805H	Yes	-	-
	Adaptec RAID controllers and HBA adapters 7,8 series <sup>2</sup>	Yes	-	-
	<b>LSI</b>			
	LSI 3008, 2008, 2308 chipsets	Yes	-	-
	LSI SAS 3041E-R	Yes	-	-
	LSI SAS 3041X-R	Yes	-	-
	LSI SAS 31601E	Yes	-	-
	LSI SAS 3442E-R	Yes	-	-
	LSI SAS 3442X	Yes	-	-
	LSI SAS 3442X-R	Yes	-	-
	LSI SAS 3800X	Yes	-	-
	LSI SAS 3801E	Yes	-	-
	LSI 1068, SAS embedded into the motherboard X8ST3-F	Yes	-	-
	LSI SAS 3080X-R	Yes	-	-
	LSI SAS 3081E-R	Yes	-	-
	LSI SAS 31601E	Yes	-	-
	LSI SAS 9201-16i Host Bus Adapter	Yes	-	-
	LSI SAS 9207-8e Host Bus Adapter	Yes	-	-
	LSI SAS 9207-8i Host Bus Adapter	Yes	-	-
	LSI SAS 9211-8i Host Bus Adapter	Yes	-	-
	LSI SAS 3801X	Yes	-	-
	LSI SAS 9200-16e	Yes	-	-
	LSI SAS 9201-16e	Yes	-	-
	LSI SAS 9202-16e	Yes	-	-
	LSI SAS 9205-8e	Yes	-	-
	LSI SAS 9206-16e	Yes	-	-
	LSI SAS 9207-4i4e	Yes	-	-
	LSI SAS 9210-8i	Yes	-	-

<sup>2</sup> No LED indicators support for Adaptec.

Hardware Component	Model	Supported Functions		
		Connection to Drives (Initiator)	Target	Cache synchronization in DC
	LSI SAS 9211-4i	Yes	-	-
	LSI SAS 9212-4i4e	Yes	-	-
	LSI SAS 9217-4i4e	Yes	-	-
	LSI SAS 9217-8i	Yes	-	-
	LSI SAS 9300-4i	Yes	Yes	Yes
	LSI SAS 9300-4i4e	Yes	Yes	Yes
	LSI SAS 9300-16e	Yes	Yes	Yes
	LSI SAS 9300-16i	Yes	Yes	Yes
	LSI SAS 9302-16e	Yes	Yes	Yes
	LSI SAS 9311-4i4e	Yes	Yes	Yes
	LSI SAS 9311-8i	Yes	Yes	Yes
FC HBA	<b>ATTO</b>			
	ATTO Celerity FC-321E 32 Gbit	-	Yes	-
	ATTO Celerity FC-322E 32 Gbit	-	Yes	-
	ATTO Celerity FC-324E 32 Gbit	-	Yes	-
Ethernet HBA	<b>Emulex</b>			
	Emulex OCe11101	-	iSCSI	iSCSI
	Emulex OCe11102	-	iSCSI	iSCSI
	Emulex OCe14000 series	-	iSCSI	iSCSI
	<b>Intel</b>			
	Intel X710 series	-	iSCSI	iSCSI
	Intel XL710 series	-	iSCSI	iSCSI
	<b>Mellanox</b>			
	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
	<b>Myricom</b>			
	Myricom 10G-PCIE-8A-R	-	iSCSI	iSCSI
	Myricom 10G-PCIE-8B-C	-	iSCSI	iSCSI
	Myricom 10G-PCIE-8B-S	-	iSCSI	iSCSI

Hardware Component	Model	Supported Functions			
		Connection to Drives (Initiator)	Target	Cache synchronization in DC	
	Myricom 10G-PCIE2-8B2-2C	-	iSCSI	iSCSI	
	Myricom 10G-PCIE2-8B2-2S	-	iSCSI	iSCSI	
	Myricom 10G-PCIE-8B2-4I	-	iSCSI	iSCSI	
	Myricom 10G-PCIE2-8C2-2S	-	iSCSI	iSCSI	
	Myricom 10G-PCIE2-8C2-2S-SYNC	-	iSCSI	iSCSI	
	Myricom 10G-PCIE2-8C-T	-	iSCSI	iSCSI	
	Myricom 10G-PCIE2-8C2-2T	-	iSCSI	iSCSI	
	<b>Solarflare</b>				
	Solarflare SFN5xxxx series	-	iSCSI	iSCSI	
	Solarflare SFN6xxx series	-	iSCSI	iSCSI	
Solarflare SFN7xxx series	-	iSCSI	iSCSI		
InfiniBand HBA	<b>Mellanox</b>				
	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
<b>PCIe SSD for SSD cache</b>	<b>Intel</b>
	Intel P3500 series
	Intel P3600 series
	<b>SanDisk</b>
	SanDisk Fusion ioMemory PX600 SanDisk Fusion ioMemory SX300
<b>Enclosure</b>	RAIDIX 5.0.1 is compatible with most of the known enclosures. If you have compatibility problems, please, contact the RAIDIX support team.
<b>Internal Cache Memory</b>	Choose the memory according to the compatibility lists of servers, CPU, motherboards.
<b>Motherboard</b>	RAIDIX 5.0.1 is compatible with most of the known motherboards for Intel Nehalem or similar or enhanced CPUs. If you have compatibility problems, please, contact RAIDIX support team.