



# Ampere® Altra® Family 64-Bit Multi-Core Processor Approved Vendor List (AVL)

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# 1. Introduction

Ampere's Approved Vendor List (AVL) represents components known to function on Ampere Customer Reference Boards (CRBs) with the latest firmware releases. Test reports and configuration guidelines may be available upon request. OxMs and customers are responsible for validating the components on their platform and sourcing the components.

## 1.1 Ampere Test Methodology

Ampere employs the AVL test suite for evaluating a range of vendor-supplied components for AVL validation. This toolset is also supplied as part of the Ampere Platform Tools Suite for customers and vendors to test components directly.

The Ampere AVL Test Suite includes test packages specifically designed for testing various components. The Ampere AVL validation plan includes requirements to perform testing on multiple platforms and configurations, running multiple iterations and cycles for each targeted test. An example of a test in the Ampere AVL Test Suite is listed in [Section 1.2, PCIe Storage AVL Test Suite](#), and [Section 1.3, DDR AVL Test Suite](#).

## 1.2 PCIe Storage AVL Test Suite

- Plug PCIe storage card into slot and plug in all storage devices.
- Execution duration: 7-10 days per device.

**Table 1: PCIe Storage AVL Test Suite**

TEST NUMBER	TEST	DESCRIPTION	CONDITIONS <sup>1</sup>	ITERATIONS
1	Short Test	Linux boot + 5 min FIO test	Vnom	2
2	Performance Test	Linux boot + Scan FIO (max perf); Reboot and Run Stress – 62.5 min seq. Read and 62.5 min seq. Write	Vnom VDDC_SOC = Vmin VDDC_SOC = Vmax	1
3	Power Cycle Test	Power on + Linux boot + 5 min FIO test + Power off	Vnom VDDC_SOC = Vmin VDDC_SOC = Vmax	50
4	Soft Cycle Test	Linux boot + 5 min FIO test + Reboot	Vnom VDDC_SOC = Vmin VDDC_SOC = Vmax	50
5	Data Transfer Test	Linux boot + FIO Stress test	Vnom VDDC_SOC = Vmin VDDC_SOC = Vmax	1
6	RAID Test	Linux boot + RAID 0/1/5/6/10 + 30 min FIO test	Vnom VDDC_SOC = Vmin VDDC_SOC = Vmax	1

1. All test cycles at ambient room temperature.



### 1.3 DDR AVL Test Suite

- Two systems
- Test 1DPC (8 DIMMs/Socket)
- Test 2DPC (16 DIMMs/Socket)

Table 2: DDR AVL Test Suite

#	TEST	DESCRIPTION	CONDITIONS	ITERATIONS
1	Memory Margin Test	Run Margin Eye of Data + ECC slices <sup>2</sup> on RDRISE/RDFALL/WRDQ (merged MCU) Pass/Fail criteria: RDRISE(8x6), RDFALL(8x6), and WRDQ(8x4). Test size 256 MB	Vnom→Vmin/Vmax <sup>1</sup>	5
		Run Margin Eye of ADCMD (16-bit) (merged MCU) Pass/Fail criteria: ADCMD (40). Test size 256 MB	Vnom→Vmin/Vmax <sup>1</sup>	5
2	Linux Boot Test	Linux boot	Vnom	2
3	Short Memory Test	Linux boot and run memtester for 30 minutes	Vnom	2
4	Power Cycle Test	Linux boot and run memtester (90% memory allocation) for 20 minutes. <sup>3</sup>	Vnom→Vmin/Vmax <sup>1</sup>	80
5	Long Memory Test	Linux boot + run memtester (90% memory allocation) for 12 hours, then run stressapptest (90% memory allocation) for 12 hours. <sup>3</sup>	Vnom→Vmin/Vmax <sup>1</sup>	1

1. DDR voltage for Vnom/Vmin/Vmax (refer to SoC Datasheet for margin percentage for each power rail):
  - a. VRD\_DDR\_SOC\_MARGIN
  - b. SWAB\_VOLT\_MARGIN (PMIC)
  - c. SWC\_VOLT\_MARGIN (PMIC)
  - d. VRD\_VDDQ\_MARGIN

**Expectations:** By using Ampere Platform Tools for DDR Margin Test Suite and DDR AVL Test Suite, if the report passes, the system is declared error-free.

2. Refer to section 2.4.3 of the [PV Milestone Supplement](#) document for DDR tuning guidance.
3. Count CE (Correctable Error) later and compare it with CE threshold: 24CEs/24hours. If CountCE <= CETHreshold, test case passes.



## 2. Ampere® Altra® Family AVL Qualified Device List: Memory

Table 3: Ampere Altra Family AVL Qualified Device List: Memory

VENDOR	PART NUMBER/MODEL	CAPACITY	TESTED CONFIGURATION	TESTED SPEED	SPEED GRADE	ORGANIZATION	SRP VERSION
Kingston	KSM32RS4-16MRR	16GB	1DPC		3200	1Rx4	–
Kingston	KSM32RS4-32HAR	32GB	1DPC		3200	1Rx4	–
Micron	MTA18ASF2G72PDZ-2G6E1	16GB	1DPC	3200	3200	2Rx8	v1.06
Micron	MTA18ASF2G72PDZ-2G6E1	16GB	2DPC	2666	3200	2Rx8	v1.06
Micron	MTA18ASF2G72PDZ-3G2E1	16GB	1DPC	3200	3200	2Rx8	v1.06
Micron	MTA18ASF2G72PDZ-3G2E1	16GB	2DPC	3200	3200	2Rx8	v1.06
Micron	MTA18ASF2G72PZ-2G9E1	16GB	1DPC	2933	3200	1Rx4	–
Micron	MTA36ASF4G72PZ-2G6E1	32GB	1DPC	3200	3200	2Rx4	v1.06
Micron	MTA36ASF4G72PZ-2G6E1	32GB	2DPC	2666	3200	2Rx4	v1.06
Micron	MTA36ASF4G72PZ-2G6D1	32GB	1DPC	2666	3200	2Rx4	v1.06
Micron	MTA36ASF4G72PZ-2G6D1	32GB	2DPC	2666	3200	2Rx4	v1.06
Micron	MTA36ASF4G72PZ-3G2E2	32GB	1DPC	3200	3200	2Rx4	v1.06
Micron	MTA36ASF4G72PZ-3G2E2	32GB	2DPC	3200	3200	2Rx4	v1.06
Micron	MTA36ASF8G72PZ-3G2E1	64GB	1DPC	3200	3200	2Rx4	–
Samsung	M393A2K40CB2-CTD6Q	16GB	1DPC	3200	3200	1Rx4	v1.06
Samsung	M393A2K40CB2-CTD6Q	16GB	2DPC	2666	3200	1Rx4	v1.06
Samsung	M393A2K43CB2-CTD	16GB	1DPC	3200	3200	2Rx8	v1.06
Samsung	M393A2K43CB2-CTD	16GB	2DPC	2666	3200	2Rx8	v1.06
Samsung	M393A2K43DB2-CVF	16GB	1DPC	3200	3200	2Rx8	v1.06
Samsung	M393A2K43DB2-CVF	16GB	2DPC	2933	3200	2Rx8	v1.06
Samsung	M393A2K43CB2-CVF	16GB	1DPC	2933	3200	2Rx8	v1.06
Samsung	M393A2K43CB2-CVF	16GB	2DPC	2933	3200	2Rx8	v1.06
Samsung	M393A2K40DB2-CVFBQ	16GB	1DPC	2933	3200	1Rx4	–
Samsung	M393A2K40DB3-CWE	16GB	1DPC, 2DPC	3200	3200	1Rx4	v1.06



VENDOR	PART NUMBER/MODEL	CAPACITY	TESTED CONFIGURATION	TESTED SPEED	SPEED GRADE	ORGANIZATION	SRP VERSION
Samsung	M393A2K40DB3-CWE	16GB	2DPC	3200	3200	1Rx4	v1.06
Samsung	M393A2K43DB3-CWE	16GB	1DPC	3200	3200	2Rx8	–
Samsung	M393A2K43DB3-CWE	16GB	2DPC	3200	3200	2Rx8	–
Samsung	M393A2K43EB3-CWEBQ	16GB	1DPC	3200	3200	2Rx8	v1.08
Samsung	M393A2K43EB3-CWEBQ	16GB	2DPC	3200	3200	2Rx8	v1.08
Samsung	M393A2K43EB3-CWECQ	16GB	1DPC	3200	3200	2Rx8	v1.08
Samsung	M393A2K43EB3-CWECQ	16GB	2DPC	3200	3200	2Rx8	v1.08
Samsung	M393A2K40EB3-CWEBQ	16GB	1DPC	3200	3200	1Rx4	v1.08
Samsung	M393A2K40EB3-CWEBQ	16GB	2DPC	3200	3200	1Rx4	v1.08
Samsung	M393A2K40EB3-CWECQ	16GB	2DPC	3200?	3200	1Rx4	–
Samsung	M393A2K40EB3-CWEGQ	16GB	1DPC	3200	3200	1Rx4	v1.08
Samsung	M393A2K40EB3-CWEGQ	16GB	2DPC	3200	3200	1Rx4	v1.08
Samsung	M393A4K40CB2-CTD	32GB	1DPC	2666	3200	2Rx4	v1.06
Samsung	M393A4K40CB2-CTD	32GB	2DPC	2666	3200	2Rx4	v1.06
Samsung	M393A4K40BB2-CTD	32GB	1DPC	3200	3200	2Rx4	–
Samsung	M393A4K40BB2-CTD	32GB	2DPC	2666	3200	2Rx4	–
Samsung	M393A4K40CB2-CVF	32GB	1DPC	3200	3200	2Rx4	v1.06
Samsung	M393A4K40CB2-CVF	32GB	2DPC	2933	3200	2Rx4	v1.06
Samsung	M393A4K40DB2-CVF	32GB	1DPC	3200	3200	2Rx4	v1.06
Samsung	M393A4K40DB2-CVF	32GB	2DPC	2933	3200	2Rx4	v1.06
Samsung	M393A4K40DB2-CWE	32GB	1DPC	3200	3200	2Rx4	v1.06
Samsung	M393A4K40DB2-CWE	32GB	2DPC	3200	3200	2Rx4	v1.06
Samsung	M393A4G40AB3-CWE	32GB	1DPC	3200	3200	1Rx4	v1.06
Samsung	M393A4G40AB3-CWE	32GB	2DPC	3200	3200	1Rx4	v1.06
Samsung	M393A4K40DB3-CWE	32GB	1DPC	3200	3200	2Rx4	v1.06
Samsung	M393A4K40DB3-CWE	32GB	2DPC	3200	3200	2Rx4	v1.06
Samsung	M393A4G43AB3-CWE	32GB	1DPC	3200	3200	2Rx8	v1.06
Samsung	M393A4G43AB3-CWE	32GB	2DPC	3200	3200	2Rx8	v1.06



VENDOR	PART NUMBER/MODEL	CAPACITY	TESTED CONFIGURATION	TESTED SPEED	SPEED GRADE	ORGANIZATION	SRP VERSION
Samsung	M393A4G40BB3-CWEBQ	32GB	1DPC	3200	3200	1Rx4	v1.06
Samsung	M393A4G40BB3-CWEBQ	32GB	2DPC	3200	3200	1Rx4	v1.06
Samsung	M393A4G40BB3-CWEGQ	32GB	1DPC	3200	3200	1Rx4	v1.06
Samsung	M393A4G40BB3-CWEGQ	32GB	2DPC	3200	3200	1Rx4	v1.06
Samsung	M393A4G40BB3-CWECQ	32GB	1DPC	3200	3200	1Rx4	v1.06
Samsung	M393A4G40BB3-CWECQ	32GB	2DPC	3200	3200	1Rx4	v1.06
Samsung	M393A4G43BB4-CWEBQ	32GB	1DPC	3200	3200	2Rx8	v1.06
Samsung	M393A4G43BB4-CWEBQ	32GB	2DPC	3200	3200	2Rx8	v1.06
Samsung	M393A4G43BB4-CWECQ	32GB	1DPC		3200	2Rx8	–
Samsung	M393A4K40EB3-CWECQ	32GB	1DPC	3200	3200	2Rx4,	v1.08
Samsung	M393A4K40EB3-CWECQ	32GB	2DPC	3200	3200	2Rx4	v1.08
Samsung	M393A8G40MB2-CTD	64GB	1DPC	3200	3200	2Rx4	v2.05
Samsung	M393A8G40MB2-CTD	64GB	2DPC	2666	3200	2Rx4	v2.05
Samsung	M393A8G40MB2-CVF	64GB	1DPC	3200	3200	2Rx4	v1.06
Samsung	M393A8G40MB2-CVF	64GB	2DPC	2933	3200	2Rx4	v1.06
Samsung	M393A8G40AB2-CVF	64GB	1DPC	3200	3200	2Rx4	v1.06
Samsung	M393A8G40AB2-CVF	64GB	2DPC	2933	2933	2Rx4	v1.06
Samsung	M393A8G40AB2-CWE	64GB	1DPC	3200	3200	2Rx4	v1.06
Samsung	M393A8G40AB2-CWE	64GB	2DPC	3200	3200	2Rx4	v1.06
Samsung	M393AAG40M3B-CYF	128GB	1DPC	3200	3200	4Rx4	v2.05
Samsung	M393AAG40M3B-CYF	128GB	2DPC	2933	3200	4Rx4	v2.05
SK Hynix	HMABAGR7A2R4N-XS	128GB	1DPC	3200	3200	4Rx4	v2.1
SK Hynix	HMABAGR7A2R4N-XS	128GB	2DPC	3200	3200	4Rx4	v2.1
SK Hynix	HMABAGL7A2R4N-XST5	128GB	1DPC	3200	3200	4Rx4	v1.06
SK Hynix	HMABAGL7A2R4N-XST5	128GB	2DPC	3200	3200	4Rx4	v.106
SK Hynix	HMA82GR7CJR4N-VK	16GB	1DPC	3200	3200	1Rx4	v1.02
SK Hynix	HMA82GR7CJR4N-VK	16GB	2DPC	2666	3200	1Rx4	v1.02
SK Hynix	HMA82GR7CJR4N-XN	16GB	1DPC	3200	3200	1Rx4	v1.02



VENDOR	PART NUMBER/MODEL	CAPACITY	TESTED CONFIGURATION	TESTED SPEED	SPEED GRADE	ORGANIZATION	SRP VERSION
SK Hynix	HMA82GR7CJR4N-XN	16GB	2DPC	3200	3200	1Rx4	v1.02
SK Hynix	HMA82GR7DJR4N-XNTG	16GB	1DPC	3200	3200	1Rx4	v2.04
SK Hynix	HMA82GR7DJR4N-XNTG	16GB	2DPC	3200	3200	1Rx4	v2.04
SK Hynix	HMA82GR7DJR4N-XNT4	16GB	1DPC	3200	3200	1Rx4	v2.04
SK Hynix	HMA82GR7DJR4N-XNT4	16GB	2DPC	3200	3200	1Rx4	v2.04
SK Hynix	HMAT14JXSLB189N	256GB	1DPC	3200	3200	8Rx4	v1.06
SK Hynix	HMAT14JXSLB189N	256GB	2DPC	3200	3200	8Rx4	v1.06
SK Hynix	HMA84GR7CJR4N-VK	32GB	1DPC	3200	3200	2Rx4	v1.02
SK Hynix	HMA84GR7CJR4N-VK	32GB	2DPC	2666	3200	2Rx4	v1.02
SK Hynix	HMA84GR7CJR4N-XN	32GB	1DPC	3200	3200	2Rx4	v1.01
SK Hynix	HMA84GR7CJR4N-XN	32GB	2DPC	3200	3200	2Rx4	v1.01
SK Hynix	HMA84GR7DJR4N-XNTG	32GB	1DPC	3200	3200	2Rx4	v2.04
SK Hynix	HMA84GR7DJR4N-XNTG	32GB	2DPC	3200	3200	2Rx4	v2.04
SK Hynix	HMA84GR7DJR4N-XNT4	32GB	1DPC	3200	3200	2Rx4	v2.04
SK Hynix	HMA84GR7DJR4N-XNT4	32GB	2DPC	3200	3200	2Rx4	v2.04
SK Hynix	HMAA8GR7AJR4N-XNTG	64GB	1DPC	3200	3200	2Rx4	v1.06
SK Hynix	HMAA8GR7AJR4N-XNTG	64GB	2DPC	3200	3200	2Rx4	v1.06
SK Hynix	HMAA8GR7AJR4N-XNT4	64GB	1DPC	3200	3200	2Rx4	v1.04
SK Hynix	HMAA8GR7AJR4N-XNT4	64GB	2DPC	3200	3200	2Rx4	v1.04
SK Hynix	HMAA8GR7AJR4N-XNT8	64GB	1DPC	3200	3200	2Rx4	v1.04
SK Hynix	HMAA8GR7AJR4N-XNT8	64GB	2DPC	3200	3200	2Rx4	v1.04
ADATA	TR4R16GS32A98HC-100	16GB	1DPC	3200	3200	1Rx8	v2.10
ADATA	TR4R16GS32A98HC-100	16GB	2DPC	3200	3200	1Rx8	v2.10
ADATA	TR4R32GS32A188HC-140	32GB	1DPC	3200	3200	2Rx8	v2.10
ADATA	TR4R32GS32A188HC-140	32GB	2DPC	3200	3200	2Rx8	v2.10
Zeronestor	DRA72H32032322-BMC4	32GB	1DPC	3200	3200	2Rx4	v2.10
Zeronestor	DRA72H32032322-BMC4	32GB	2DPC	3200	3200	2Rx4	v2.10

**Note:** Customers must check with vendors/suppliers for the EOL for parts used on their platforms.



### 3. Ampere® Altra® Family AVL Qualified Device List: PCIe Network

Table 4: Ampere Altra Family AVL Qualified Device List: PCIe NICs

VENDOR	PART NUMBER / MODEL	FORM FACTOR	PCIe GEN	PORT CONFIGURATION	DESCRIPTION
Broadcom	BCM957416A4160LC / 57416	PCIe	PCIe 3.0	2x 10GbE	x8
Broadcom	BCM957414A4141LC / 57414	PCIe	PCIe 3.0	2x 25GbE	x8, SFP28
Broadcom	BCM957414N4140C	OCP 3.0	PCIe 3.0	2x 25GbE	x8
Broadcom	BCM957504-N1100G	OCP 3.0	PCIe 4.0	1x 100GbE	x16, QSFP56
Broadcom	BCM957508-P2100G	PCIe	PCIe 4.0	2x 100GbE	x16, QSFP56/QSFP28
Broadcom	BCM957504-N425G	OCP 3.0	PCIe 4.0	4x 25GbE	x16, OCP 3.0 SFF, SFP28
Broadcom	BCM957412N4120C	OCP 3.0	PCIe 3.0	2x 10GbE	x8
Broadcom	BCM957416N4160C	OCP 3.0	PCIe 3.0	2x 10GbE	x8
Broadcom	BCM957504-P425G	PCIe	PCIe 4.0	4x25GE	PCIe 4.0 x16, SFP28
Broadcom	BCM957502-N150G	OCP3.0	PCIe 4.0	1x 50GbE	x16, QSFP28
Intel	I210T1	PCIe	PCIe 1.0	1x 1GbE	x1, RJ45
Intel	I350-T2	PCIe	PCIe 2.1	2x 1GbE	x4, RJ45
Intel	X550-T2	PCIe	PCIe 3.0	2x 10GbE	x4, RJ45
Mellanox	MCX515A-CCAT	PCIe	PCIe 3.0	1x 100Gb	x16, QSFP28
Mellanox	MCX4131A-GCAT	PCIe	PCIe 3.0	1x 50GbE	x8, QSFP28/QSFP+/QSFP
Mellanox	MCX516A-CCAT	PCIe	PCIe 3.0	2x 100GbE	x16, QSFP28/QSFP+/QSFP
Mellanox	MCX4421A-XCQN	OCP 2.0	PCIe 3.0	2x 10GbE	x8, OCP 2.0 SFF, SFP28
Mellanox	MCX4121A-XCAT	PCIe	PCIe 3.0	2x 10GbE	x8, SFP28/SFP+/SFP
Mellanox	MCX4421A-ACQN	OCP 2.0	PCIe 3.0	2x 25GbE	x8, OCP 2.0 SFF, SFP28/SFP+/SFP
Mellanox	MCX4121A-ACAT	PCIe	PCIe 3.0	2x 25GbE	x8, SFP28/SFP+/SFP
Mellanox	MCX512A-ACAT	PCIe	PCIe 3.0	2x 25GbE	x8, SFP28
Mellanox	MCX542A-ACAN	OCP 2.0	PCIe 3.0	2x 25GbE	x8, SFP28/SFP+/SFP
Mellanox	MCX4621A-ACAB	OCP 3.0	PCIe 3.0	2x 25GbE	x8, SFP28/SFP+
Mellanox	MCX512A-ACUT	PCIe	PCIe 3.0	2x 25GbE	x8, SFP28



VENDOR	PART NUMBER / MODEL	FORM FACTOR	PCIE GEN	PORT CONFIGURATION	DESCRIPTION
Mellanox	MCX516A-CDAT	PCle	PCle 4.0	2x 100GbE	x16, QSFP28
Nvidia	MCX631102AS-ADAT	PCle	PCle 4.0	2x 25GbE	x8, SFP28
Nvidia	MCX623106AC-CDAT	PCle	PCle 4.0	2x 100GbE	x16, QSFP56
Nvidia	MCX623106AE-CDAT	PCle	PCle 4.0	2x 100GbE	x16, QSFP56
Nvidia	MCX623106AN-CDAT	PCle	PCle 4.0	2x 100GbE	x16, QSFP56
Nvidia	MCX623432AN-ADAB	OCP 3.0	PCle 4.0	2x 25GbE	x16, SFF, SFP28
Nvidia	MCX623102AN-ADAT	PCle	PCle 4.0	2x 25GbE	x16, HHHL, SFP28
Nvidia	MCX631102AN-ADAT	PCle	PCle 4.0	2x 25GbE	x8, SFP28, No Crypto, Tall Bracket
Nvidia	MCX653105A-HDAT	PCle	PCle 4.0	1x 200GbE	x16, QSFP56
Nvidia	MBF2H516C-EESOT	PCle	PCle 4.0	2x 100GbE	x16, 2x QSFP56, Crypto Disabled, Secure Boot, DPU
Nvidia	MCX653106A-HDAT	PCle	PCle 4.0	2x 200GbE	x16, QSFP56
Realtek	RTL8111H	PCle	PCle 1.1	1x 1GbE	x1, RJ-45
Realtek	RTL8125BG	PCle	PCle 2.1	1x 2.5GbE	x1, RJ-45



## 4. Ampere® Altra® Family AVL Qualified Device List: PCIe Storage

Table 5: Ampere Altra Family AVL Qualified Device List: PCIe Storage (NVMe)

VENDOR	PART NUMBER	FORM FACTOR	CAPACITY	PCIe GEN	DESCRIPTION
ASUS	HYPHER M.2 X16 CARD V2	PCIe	-	PCIe 4.0	4 x NVMe M.2
Gigabyte	CMT4032	PCIe-M2	-	PCIe 3.0	PCIe 3.0 x8, 2 x PCIe 3.0 x4 M.2 SSD drives
Supermicro	AOC-SLG3-2M2	PCIe-M2	-	PCIe 3.0	PCIe 3.0 x8, 2x M.2 NVMe
GigaByte	GP-AG70S2TB	M.2	2.0TB	PCIe 4.0	PCIe 4.0 x4, NVMe 1.4
Intel	SSDPE21K015TA	U.2	1.5TB	PCIe 3.0	PCIe 3.0 x4, 2.5", 15mm DC P4800X
Intel	SSDPE2KE016T8	U.2	1.6TB	PCIe 3.1	PCIe 3.1 x4, 2.5", DC P4610
Intel	SSDPE2KX010T801	U.2	1.0TB	PCIe 3.1	PCIe 3.1 x4, 2.5", DC P4510
Intel	SSDPE2KX020T801	U.2	2.0TB	PCIe 3.1	PCIe 3.1 x4, DC P4510
Intel	SSDPE2KE032T8	U.2	3.2TB	PCIe 3.1	PCIe 3.1 x4, 2.5", DC P4610
Intel	SSDPE2KX040T8	U.2	4.0TB	PCIe 3.1	PCIe 3.1 x4, DC P4510
Intel	SSDPE2KE064T8	U.2	6.4TB	PCIe 3.1	PCIe 3.1 x4, 2.5", P4610
Intel	SSDPE2NV076T8	U.2	7.68TB	PCIe 3.1	PCIe 3.1 x4, 2.5", D5-P4320
Kioxia	KXD6CRJ1T92	E1.S 9.5mm	1.92TB	PCIe 4.0	PCIe 4.0 x4, XD6
Kioxia	KCD61LUL3T84	U.2	3.84TB	PCIe 4.0	PCIe 4.0, CD6
Kioxia	KCD61LUL960G	U.2	960GB	PCIe 4.0	PCIe 4.0, CD6
Kioxia	KCM61RUL960G	U.2	960GB	PCIe 4.0	PCIe 4.0, CM6
Micron	MTFDHBA960TDF-1AW1ZAB	M.2	960GB	PCIe 3.0	PCIe 3.0 x4, 7300 PRO
Micron	MTFDHBE960TDF-1AW1ZAB	U.2	960GB	PCIe 3.0	PCIe 3.0 x4, 7300 PRO
Samsung	MZ1LB1T9HALS-00007	M.2	1.92TB	PCIe 3.0	PCIe 3.0 x4
Samsung	MZWLR1T9HBJR-00007	U.2	1.92TB	PCIe 4.0	PCIe 4.0 x4, PM1733
Samsung	MZQL21T9HCJR-00A07	U.2	1.92TB	PCIe 4.0	PCIe 4.0 x4, PM9A3
Samsung	MZ1L21T9HCLS-00A07	M.2	1.92TB	PCIe 4.0	PCIe 4.0 x4, PM9A3
Samsung	MZWLR3T8HBLS-00AU3	U.2	3.84TB	PCIe 4.0	PCIe 4.0 x4, PM1733
Samsung	MZPLJ6T4HALA-00007	U.2	6.4TB	PCIe 4.0	PCIe 4.0 x8, PM1735



VENDOR	PART NUMBER	FORM FACTOR	CAPACITY	PCIE GEN	DESCRIPTION
Samsung	MZ1LB960HAJQ-00007	M.2	960GB	PCIe 3.0	PCIe 3.0 x4, 983
Samsung	MZQLB960HAJR	U.2	960GB	PCIe 3.0	PCIe 3.0 x4, 983
SK Hynix	HFS1T9GD0FEI-A430A	M.2	1.92TB	PCIe 3.0	PCIe 3.0, PE6110
SK Hynix	HFS960GD0FEI-A430A	M.2	960GB	PCIe 3.0	PCIe 3.0, PE6110
Solidigm	SSDPF2KX038TZ	U.2	3.8TB	PCIe 4.0	PCIe 4.0 x4, D7-P5510
Solidigm	SSDPF2KX038T9S1	U.2	3.8TB	PCIe 4.0	PCIe 4.0 x4, D7-P5500
Solidigm	SSDPF2KX076TZ	U.2	7.68TB	PCIe 4.0	PCIe 4.0 x4, D7-P5510
Western Digital	WUS4BA119DSP3X1	U.2	1.92TB	PCIe 3.1, x4	PCIe 3.1 x4, DC SN840



Table 6: Ampere Altra Family AVL Qualified Device List: PCIe Storage (HBA)

VENDOR	PART NUMBER / MODEL	FORM FACTOR	PCIe GEN	DESCRIPTION
ASMedia	ASM1061R	PCIe	PCIe 2.0	x2, 2x SATA 6Gbps
ASMedia	ASM1062R	PCIe	PCIe 2.0	x2, 2x SATA 6Gbps
Broadcom	9305-16i	PCIe	PCIe 3.0	x8, 4 Mini-SAS HD SFF-8643
Broadcom	9405W-16i	PCIe	PCIe 3.1	x16, SAS3616W Tri-Mode, Four (x4) SFF-8643
Broadcom	9460-16i	PCIe	PCIe 3.1	x8, Controller SAS3516, 4 Mini-SAS HD SFF-8643
Broadcom	9460-8i	PCIe	PCIe 3.1	x8, Controller SAS3508, 2 Mini-SAS HD SFF-8643
Broadcom	9400-16i	PCIe	PCIe 3.1	x8, 4 Mini-SAS HD SFF-8643
Broadcom	9400-8i	PCIe	PCIe 3.0	x8, 12, 6, and 3Gb/s SAS and 6, 3Gb/s SATA
Broadcom	9500-16i	PCIe	PCIe 3.0	x8, SAS3916, Tri-mode, dual x8 SFF-8654
Broadcom	9500-8i	PCIe	PCIe 4.0	x8, SAS3808, 1 x8 SFF-8654
Broadcom	9560-8i	PCIe	PCIe 4.0	x8, SAS3908 ROC, Tri-Mode, 1x SFF-8654
Broadcom	9560-16i	PCIe	PCIe 4.0	x8, SAS3916 ROC, Tri-Mode, dual x8 SFF-8654
Gigabyte	CRA3338	PCIe	PCIe 3.0	PCIe 3.0 x8, 2 Mini-SAS HD SFF8644, SW RAID (SAS3008)
Gigabyte	CRA4448	PCIe	PCIe 3.0	PCIe 3.0 x8, 2 Mini-SAS HD SFF8644, HW RAID (CRA4448-LSI SAS3108)
Micron	JMB582/585	PCIe	PCIe 3.0	PCIe 3.0 x1 to x2 SATA 6Gb/s Bridge
Marvell	88SE9230	PCIe	PCIe 2.0	PCIe 2.0 (5.0 Gb/s)



## 5. Ampere® Altra® Family AVL Qualified Device List: Miscellaneous Devices

Table 7: Ampere Altra Family AVL Qualified Device List: PCIe GPU/Accelerator

VENDOR	PART NUMBER/MODEL	FORM FACTOR	PCIE GEN	DESCRIPTION
Netint	T408-U2	PCIe	PCIe 3.0	PCIe 3.0 x4, U.2

Table 8: Ampere Altra Family AVL Qualified Device List: Trusted Platform Module (TPM)

VENDOR	PART NUMBER /MODEL	TYPE	TPM VERSION	DESCRIPTION
Gigabyte	CTM010-rev-10	OCP SPI	TPM 2.0	TPM 2.0, Infineon SLB9670VQ2
STMicroelectronics	ST33HTPH2E32AHCO	OCP SPI	TPM 2.0	TCG
STMicroelectronics	ST33HTPH2X32AHE0	OCP SPI	TPM 2.0	TCG
Wiwynn	B91.01410.0012	OCP SPI	N/A	Infineon SLB 9670VQ2

Table 9: Ampere Altra Family AVL Qualified Device List: SPI-NOR

VENDOR	PART NUMBER	TYPE	CAPACITY	DESCRIPTION
Macronix	MX66L1G45GMI-08G	Serial NOR	1Gb	SPI-NOR, Macronix, Serial Flash Memory
Winbond	W25Q01JVFIN	Serial NOR	1Gb	SPI-NOR, Winbond, Serial Flash Memory
Winbond	W25Q01JVSIQ	Serial NOR	1Gb	SPI-NOR, Winbond, Serial Flash Memory

Table 10: Ampere Altra Family AVL Qualified Device List: USB Controller

VENDOR	PART NUMBER	USB GEN	FORM FACTOR	PCIE GEN	DESCRIPTION
ASMedia	ASM3042	USB3.2	PCIe	PCIe 3.0	PCIe to USB 3.2 xHCI host controller



## 6. Revision History

ISSUE	DATE	DESCRIPTION
1.15	December 3, 2025	Updated: <ul style="list-style-type: none"> <li>• <a href="#">Table 3: Ampere Altra Family AVL Qualified Device List: Memory</a></li> </ul>
1.10	November 21, 2025	Added: <ul style="list-style-type: none"> <li>• <a href="#">Table 4: Ampere Altra Family AVL Qualified Device List: PCIe NICs</a></li> <li>• <a href="#">Table 5: Ampere Altra Family AVL Qualified Device List: PCIe Storage (NVMe)</a></li> <li>• <a href="#">Table 6: Ampere Altra Family AVL Qualified Device List: PCIe Storage (HBA)</a></li> <li>• <a href="#">Ampere® Altra® Family AVL Qualified Device List: Miscellaneous Devices</a></li> </ul> Updated: <ul style="list-style-type: none"> <li>• <a href="#">Introduction</a></li> <li>• <a href="#">Ampere® Altra® Family AVL Qualified Device List: Memory</a></li> </ul> Minor fixes and corrections.
1.00	March 20, 2024	Initial release



December 3, 2025

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