



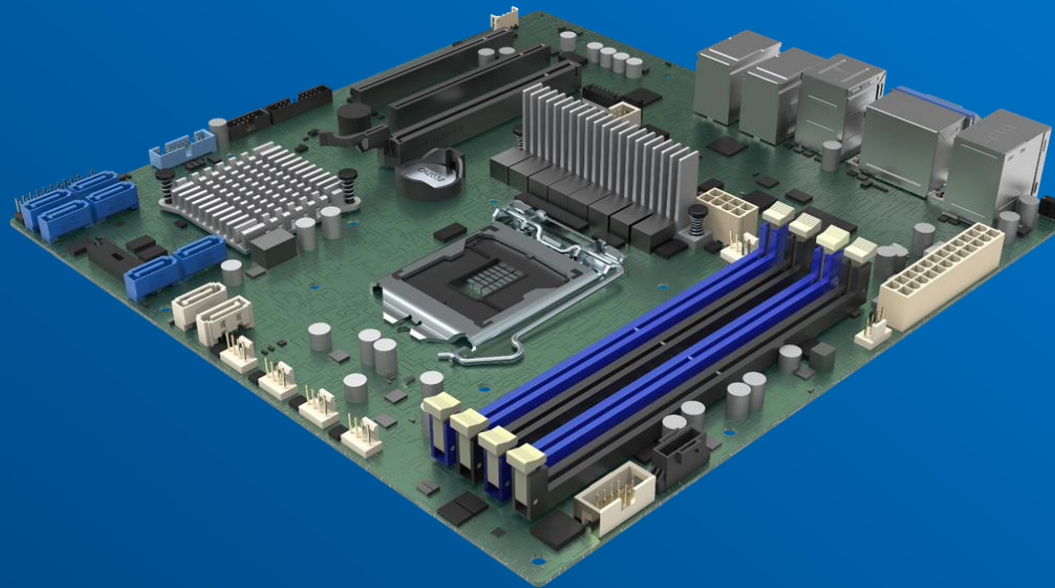
Intel® Server Board M10JNP2SB

Configuration Guide

A reference document to identify available accessories and spare parts associated with the Intel® Server Board M10JNP2SB.

Rev. 2.2

July 2022



M10JNP2SB

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Document Revision History

Date	Revision	Changes
October 2019	1.0	Preliminary release.
November 2019	1.1	Added Appendix A: Tested memory, Drives, Operating System and Adapters
November 2019	1.2	Updated Section 1.1.1 Processor Support - Added Supported processors Updated Table 1. Intel® Server Board M10JNP2SB features/specifications – Processor and Embedded SATA software RAID Updated Section 1.1.3 Memory Support – Corrected typo Updated Table 9. Tested processor
December 2019	1.3	Added Supported HBA/RAID cards table 12. on Appendix A.
January 2020	1.4	Added Reference Chassis Compatibility List table 14. on Appendix A.
March 2020	1.5	Added CPU Heat Sink information to Table 13. On Appendix A.
July 2020	1.6	Added CPU information to table 1.1.1 Processor Support and table 9. Tested processor, on Appendix A.
July 2020	1.7	Added CPU information to table 1.1.1 Processor Support and table 9. Tested processor, on Appendix A. Updated Table 3. Intel® Xeon® E-2200 processor family Updated Table 12. Tested HBA/RAID Cards
September 2020	1.8	Updated information on section 1.1.3 Memory Support Updated Table 8. Tested memory Updated Trusted Platform Module 2.0 JNPTPMCH MM# number information
June 2021	1.9	Updated Table 6 comments about Intel® Server Board BBM10JNP2SB product Adding THOL disclaimer on pages of the appendix A Minor updates throughout for clarity
October 2021	2.0	Updated Section 1.1.1 Processor Support - Added Supported processors Updated Table 3. Intel® Xeon® E-2200 processor family Update Table 8. Tested memory Update Table 9. Tested processor Update Table 13. Tested operating systems Minor updates throughout for clarity
January 2022	2.1	Adding a note in Table 7. Miscellaneous Accessory Options
July 2022	2.2	Update Table 8. Tested memory

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1. Intel® Server Board Overview

This document provides a catalog of available Intel® server boards, accessories, and spares associated with the Intel® Server Board M10JNP2SB.



Figure 1. Intel® Server Board M10JNP2SB

The Intel® Server Board M10JNP2SB is a monolithic printed circuit board assembly with features for data center and office environments running multiple applications under a continuous workload. This server board is designed to support the Intel® Xeon® E 2200 processor family.

1.1 Intel® Server Board M10JNP2SB Feature Overview

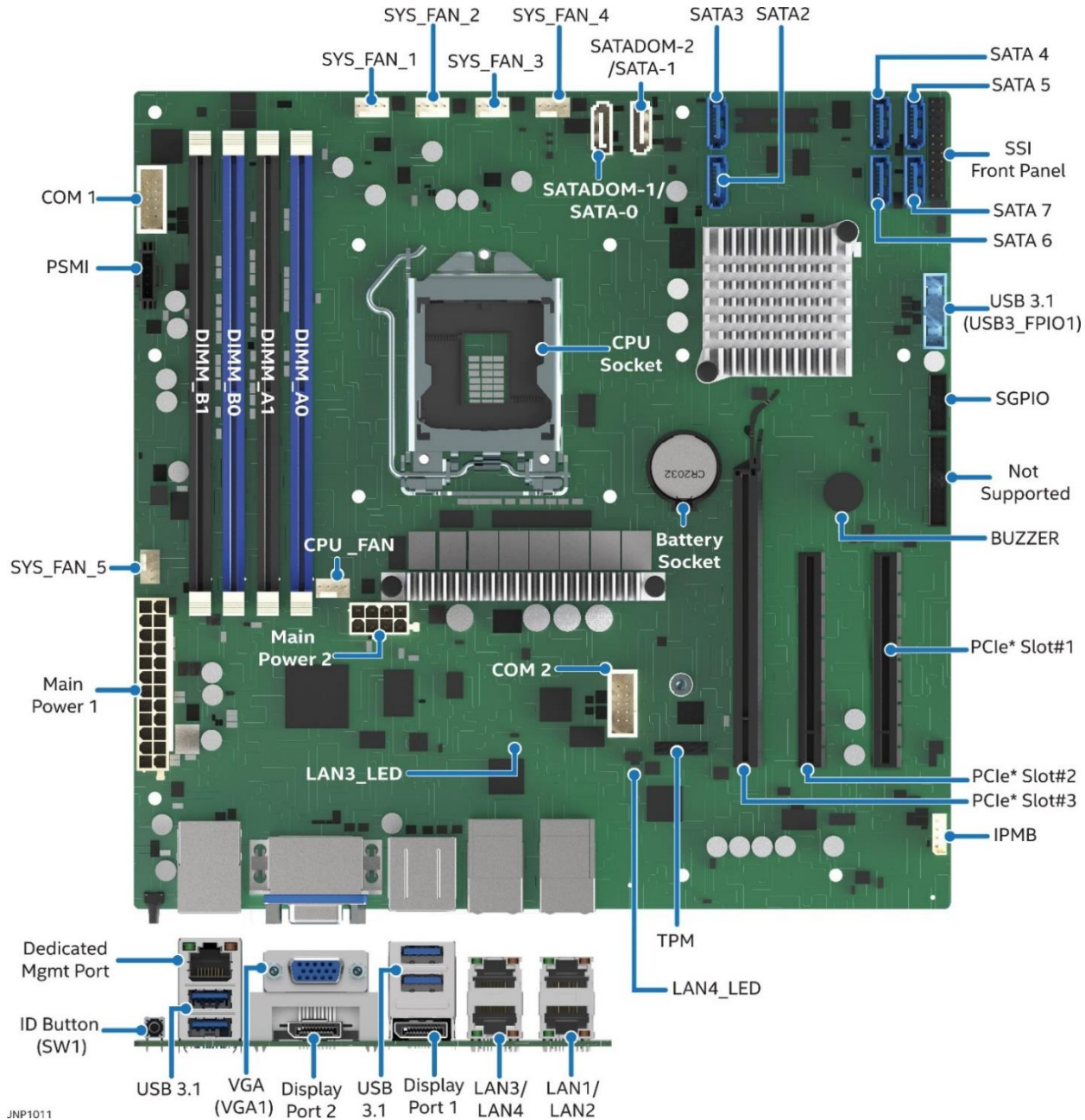


Figure 2. Server board component / feature identification

Table 1. Intel® Server Board M10JNP2SB features/specifications

Feature	Description
Processor support	<ul style="list-style-type: none"> • One FLGA1151 processor socket • Compatible with select models from the Intel® Xeon® E-2100 and Intel® Xeon® E-2200 processor families. • Maximum supported Thermal Design Power (TDP) of up to 95 W <p>Note: Server Systems based on this server board may support a lower maximum Thermal Design Power (TDP).</p>
Memory	<ul style="list-style-type: none"> • Four DIMM Slots • Two memory channels • DDR4 UDIMM ECC, 2666 MT/s, 1.2V • Up to 128GB total installed memory
Chipset	Intel® C246 Chipset
Network Ports	<ul style="list-style-type: none"> • Four 1GbE Base-T, RJ45 • One dedicated management port, RJ45
Onboard Storage Support	<ul style="list-style-type: none"> • Six SATA 6 Gbps ports (6 Gb/s, 3 Gb/s and 1.5 Gb/s transfer rates are supported) • Two 7-pin SATA-DOM connectors
Embedded SATA software RAID	<ul style="list-style-type: none"> • Intel® RSTe
PCIe* Add-in Card Slots	<ul style="list-style-type: none"> • Slot 1: PCIe* 3.0 x8 slot (x4 electrical) • Slot 2: PCIe* 3.0 x8 slot (x8 electrical) • Slot 3: PCIe* 3.0 x16 slot (x8 electrical)
Riser Card Support	<p>Support for one PCIe* 3.0 riser card on PCIe* slot 3. (Sold separately. Optional Intel Accessory):</p> <ul style="list-style-type: none"> • Riser card with one PCIe* 3.0 slot (x16 mechanical, x8 electrical) – iPC JNP1URISER
Video	<ul style="list-style-type: none"> • Integrated 2D video controller • 16 MB of DDR4 video memory • One DB-15 external connector • Two External DisplayPort* connectors
USB	<ul style="list-style-type: none"> • Four external USB 3.1 Gen2 ports • One 2x10 pin connector providing front panel support for (2) USB 3.1 Gen1 ports
Serial Port	<ul style="list-style-type: none"> • Two internal DH-10 serial port connectors
Server Management	<ul style="list-style-type: none"> • Integrated baseboard management controller, IPMI 2.0 compliant • Dedicated RJ45 management port
Security	<ul style="list-style-type: none"> • Trusted platform module 2.0 support (China Version) – iPC JNPTPMCH (accessory option) • Trusted platform module 2.0 support (Rest of World) – iPC JNPTPM (accessory option)
System Fan Support	<ul style="list-style-type: none"> • Two 4-pin processor fan headers • Six 6-pin front system fan headers • One 4-pin rear system fan header
Front Panel Support	<ul style="list-style-type: none"> • One 2x12 pin SSI front panel header

1.1.1 Processor Support

The server board includes one LGA1151 processor socket compatible with select models from the Intel® Xeon® E-2100 processor and Intel® Xeon® E-2200 processor families with a maximum Thermal Design Power (TDP) of 95 W.

The Intel® Server Board M10JNP2SB has been validated to support the following Intel® processors:

- Intel® Xeon E-2104G processor
- Intel® Xeon E-2124 processor
- Intel® Xeon E-2124G processor
- Intel® Xeon E-2126G processor
- Intel® Xeon E-2134 processor
- Intel® Xeon E-2136 processor
- Intel® Xeon E-2146G processor
- Intel® Xeon E-2174G processor
- Intel® Xeon E-2176G processor
- Intel® Xeon E-2186G processor
- Intel® Xeon E-2224 processor
- Intel® Xeon E-2224G processor
- Intel® Xeon E-2236 processor
- Intel® Xeon E-2278G processor
- Intel® Xeon E-2274G processor
- Intel® Xeon E-2288G processor
- Intel® Xeon E2234 processor
- Intel® Xeon E2286G processor
- Intel® Xeon E2244G processor
- Intel® Core i7 9700TE processor

Table 2 and Table 3 provide a comparison of specifications between the supported processors.

Table 2. Intel® Xeon® E-2100 Processor family features list

SKU	Cores/threads	Base Speed (GHz)	Max Intel® Turbo Boost Technology 2.0 Speed (GHz)	Intel® UHD Graphics P630	Intel® Smart Cache (MB)
E-2186G	6/12	3.8	4.7	Yes	12
E-2176G	6/12	3.7	4.7	Yes	12
E-2174G	4/8	3.8	4.7	Yes	8
E-2146G	6/12	3.5	4.5	Yes	12
E-2144G	4/8	3.6	4.5	Yes	8
E-2136	6/12	3.3	4.5	No	12
E-2134	4/8	3.5	4.5	No	8
E-2126G	6/12	3.3	4.5	Yes	12
E-2124G	4/8	3.4	4.5	Yes	8
E-2124	4/8	3.3	4.3	No	8
E-2104G	4	3.2	N/A	Yes	8

Table 3. Intel® Xeon® E-2200 Processor family features list

SKU	Cores/threads	Base Speed (GHz)	Max Intel® Turbo Boost Technology 2.0 Speed (GHz)	Intel® UHD Graphics P630	Intel® Smart Cache (MB)	DDR4 ECC UDIMM (GB)
E-2224	4/4	3.4 GHz	4.6 GHz	N/A	8 MB	128 GB
E-2224G	4/4	3.5 GHz	4.7 GHz	P630	8 MB	128 GB
E-2236	6/12	3.4 GHz	4.8 GHz	N/A	12 MB	128 GB
E-2278G	8/16	3.8 GHz	5.0 GHz	P630	12 MB	128 GB
E-2274G	4/8	4.0 GHz	4.90 GHz	P630	8 MB	128 GB
E 2288G	8/16	3.70 GHz	5.0 GHz	P630	16 MB	128 GB
E2234	4/8	3.60 GHz	4.80 GHz	N/A	8 MB	128 GB
E2286G	6/12	4.0GHz	4.90 GHz	P630	12 MB	128 GB
E2244G	4/8	3.80 GHz	4.80 GHz	P630	8 MB	128 GB

1.1.2 Processor Features

The Intel® Xeon® E-2200 processor family combines several key system components into a single processor package, and includes the following features:

- Intel® Virtualization Technology (Intel® VT-x)
- Intel® Active Management Technology 11.0 (Intel® AMT)
- Intel® Trusted Execution Technology (Intel® TXT)
- Intel® Streaming SIMD Extensions 4.2 (Intel® SSE4.2)
- Intel® Hyper-Threading Technology (Intel® HT Technology)
- Intel® 64 Architecture
- Execute Disable Bit
- Intel® Turbo Boost Technology 2.0
- Intel® Advanced Vector Extensions 2 (Intel® AVX2)
- Intel® Advanced Encryption Standards New Instructions (Intel® AES-NI)
- PCLMULQDQ (Perform Carry Less Multiplication Quad word) instruction
- Intel® Secure Key
- Intel® Transactional Synchronization Extensions (Intel® TSX-NI)
- PAIR – Power-Aware Interrupt Routing
- SMEP – Supervisor Mode Execution Protection
- Intel® Boot Guard
- Intel® Software Guard Extensions (Intel® SGX)
- Intel® Memory Protection Extensions (Intel® MPX)
- GMM Scoring Accelerator
- Intel® Processor Trace (Intel® PT)
- High Definition Content Protection (HDCP) 2.2

1.1.3 Memory Support

The Intel® Server Board M10JNP2SB supports memory with the following features:

- Only DDR4 DIMMs are supported
- Error Correction Code (ECC) enabled and non-ECC UDIMMs are supported
- Total installed system memory of up to 128GB
- DIMM speeds of 2666/2400 MT/s
- DIMMs organized as Single Rank (SR) or Dual Rank (DR)

1.2 Additional Information and Software

For additional information about this family of products or any of their supported accessories, refer to the following resources available at <http://www.intel.com/support>.

Table 4. Product family reference collaterals

For this information or software	Use this document or software
For in-depth technical information about this product family	<i>Intel® Server Board M10JNP2SB User Guide</i> <i>Intel® Server Board M10JNP2SB BIOS Setup Utility Guide</i> <i>Intel® Server Board M10JNP2SB BMC and EWS User Guide</i>
For system firmware updates, onboard device drivers, and software	Download Center (https://downloadcenter.intel.com/search?keyword=M10JNP2SB)
For a complete list of supported processors, memory, add-in cards, and peripherals	Intel® Server Board M10JNP2SB Product Family support site
Product warranty Information	Warranty Terms and Conditions (https://www.intel.com/content/www/us/en/support/services/000005886.html)
Safety and Regulatory Compliance Information	<i>Intel® Server Board M10JNP2SB User Guide – APPENDIX F</i>

2. Intel® Server Board M10JNP2SB Options

Table 5. Intel® Server Board DBM10JNP2SB product specifications


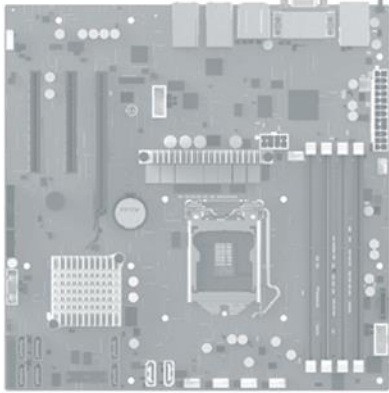
Intel® Server Board M10JNP2SB, 5-Pack				
	iPC	DBM10JNP2SB	Product type	Server Board
	MM#	999PL9	Form factor	Micro ATX
UPC	00735858433853	Packaged gross wt.	19.2 lbs. (8.7 kg)	
EAN	5032037175791	Un-packaged net wt.	14.1 lbs. (6.4 kg)	
MOQ	1	Dimensions	9.6"W x 9.6"L	
<ul style="list-style-type: none"> One FLGA1151 processor socket Intel® C246 Chipset Four 1GbE Base-T, RJ45 network ports Eight SATA 6Gbps ports 				
See Table 1 for full feature set.				
Pack includes:				
<ul style="list-style-type: none"> (5) - Intel® Server Board M10JNP2SB (5) - I/O shield 				

Table 6. Intel® Server Board BBM10JNP2SB product specifications

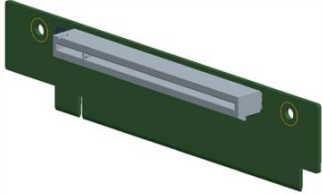


Intel® Server Board M10JNP2SB, 10-Pack				
	Intel® Server Board BBM10JNP2SB is not available to order.		Product type	Server Board
	See PCN 117784-00 for more details.		Form factor	Micro ATX
		Packaged gross wt.	19.2 lbs. (8.7 kg)	
		Un-packaged net wt.	14.1 lbs. (6.4 kg)	
		Dimensions	9.6"W x 9.6"L	
<ul style="list-style-type: none"> One FLGA1151 processor socket Intel® C246 Chipset Four 1GbE Base-T, RJ45 network ports Eight SATA 6Gbps ports 				
See Table 1 for full feature set				
Pack includes:				
<ul style="list-style-type: none"> (10) - Intel® Server Board M10JNP2SB (10) - I/O shield 				

3. Accessory Options

This chapter identifies available accessory kits supported by the Intel® Server Board M10JNP2SB.

3.1 Miscellaneous Accessory Options

Table 7. Miscellaneous accessory options

Image	Details	Description
	<p>1U One-Slot PCIe* Riser Card, Pack of 40</p> <p>iPC JNP1URISER MM# 999PLF UPC 00735858432214 EAN 5032037174206 MOQ 1</p> <p>Product type Accessory kit</p>	<p>1U One-Slot PCIe* Riser Card kit.</p> <p>Support for one PCIe* slot (x8 elec., x16 mechanical).</p> <p>Pack includes 40 pieces.</p>
	<p>Trusted Platform Module (TPM) 2.0, Pack of 40</p> <p>iPC JNPTPM MM# 999PLH UPC 00735858433884 EAN 5032037175821 MOQ 1</p> <p>Product type Accessory kit</p>	<p>A TPM is a hardware-based security device that addresses the growing concern on boot process integrity and offers better data protection. TPM protects the system start-up process by ensuring that it is tamper-free before releasing system control to the operating system. A TPM device provides secured storage to store data, such as security keys and passwords. In addition, a TPM device has encryption and hash functions.</p> <p>JNPTPM implements TPM as per TPM PC Client specifications Revision 2.0 by the Trusted Computing Group (TCG).</p> <p>Pack Contains 40 pieces.</p>
 <p data-bbox="109 1302 361 1464">Note: Does not meet Microsoft* Win2k19/Win2K22 certification requirements.</p>	<p>Trusted Platform Module (TPM) 2.0, Pack of 40</p> <p>iPC JNPTPMCH MM# 999PM2 UPC 00735858433884 EAN 5032037175821 MOQ 1</p> <p>Product type Accessory kit</p>	<hr/> <p>Note: JNPTPMCH compatible for use in China</p> <hr/> <p>A TPM is a hardware-based security device that addresses the growing concern on boot process integrity and offers better data protection. TPM protects the system start-up process by ensuring that it is tamper-free before releasing system control to the operating system. A TPM device provides secured storage to store data, such as security keys and passwords. In addition, a TPM device has encryption and hash functions.</p> <p>JNPTPMCH implements TPM as per TPM PC Client specifications Revision 2.0 by the Trusted Computing Group (TCG).</p> <p>Pack Contains 40 pieces.</p>

Appendix A. Tested Hardware and Operating System

The following tables list the Operating systems, Memories, Drives, Processors, and Add-in cards that have completed and passed validation testing.

Disclaimer: The parts listed [above/below] have been validated by Intel for interoperability with server system(s) xyz(list).

Note: No regulatory compliance testing has been performed by Intel on the system resulting from the integration of the listed parts with the identified Intel® server systems. Regulatory compliance of the system is the responsibility of the integrator.

Table 8. Tested memory

Type	Speed	Vendor	Size (GB)	Model Number	DIMM Type
DDR4	2666 MT/s	Apacer*	4	76.B114G.D640B	UDIMM
DDR4	2666 MT/s	Apacer*	8	76.C114G.D650B	UDIMM
DDR4	2666 MT/s	Micron*	16	MTA18ADF2G72AZ-2G6E1	UDIMM
DDR4	3200 MT/s	Micron*	16	MTA18ADF2G72AZ-3G2R1	UDIMM
DDR4	2666 MT/s	Kingston*	16	KSM26ED8/16ME	UDIMM
DDR4	2666 MT/s	Kingston*	8	KSM26ES8/8ME	UDIMM
DDR4	2666 MT/s	Samsung*	16	M378A2K43CB1-CTD	UDIMM
DDR4	2666 MT/s	Samsung*	32	M378A4G43MB1-CTD	UDIMM
DDR4	2666 MT/s	Samsung*	16	M391A2K43BB1-CTD	UDIMM
DDR4	2666 MT/s	Samsung*	32	M391A4G43MB1-CTD	UDIMM
DDR4	3200 MT/s	Samsung*	16	M391A2K43DB1-CWEQ	UDIMM
DDR4	3200 MT/s	Samsung*	16	M391A2G43BB2-CWE	UDIMM

Disclaimer: The parts listed [above/below] have been validated by Intel for interoperability with server system(s) xyz(list).

Note: No regulatory compliance testing has been performed by Intel on the system resulting from the integration of the listed parts with the identified Intel® server systems. Regulatory compliance of the system is the responsibility of the integrator.

Table 9. Tested processor

Manufacturer	Model	Description
Intel	Intel® Xeon E-2224 processor	(8M cache, 3.4GHZ) Skt H4, FCLGA 1151, 71W TDP
Intel	Intel® Xeon E-2224G processor	(8M cache, 3.5GHZ) Skt H4, FCLGA 1151, 71W TDP
Intel	Intel® Xeon E-2236 processor	(12M Cache, 3.4GHZ) Skt H4, FCLGA 1151, 80W TDP
Intel	Intel® Xeon E 2278G processor	(16M Cache, 3.4GHZ) Skt H4, FCLGA 1151, 80W TDP
Intel	Intel® Xeon E-2104G processor	(8M cache 3.2GHZ), 4 core, 65W TDP
Intel	Intel® Xeon E-2124G processor	(8M cache 3.4GHZ), 4 core, 71W TDP
Intel	Intel® Xeon E-2126G processor	(12M cache 3.3GHZ), 6 core, 80W TDP
Intel	Intel® Xeon E-2146G processor	(12M cache 3.5GHZ), 6 core, 80W TDP
Intel	Intel® Xeon E-2176G processor	(12M cache 3.7GHZ), 6 core, 80W TDP
Intel	Intel® Xeon E-2186G processor	(12M cache 3.8GHZ), 6 core, 95W TDP
Intel	Intel® Xeon E-2174G processor	(8M cache 3.8GHZ), 4 core, 71W TDP
Intel	Intel® Xeon E-2136 processor	(12M cache 3.3GHZ), 6 core, 80W TDP
Intel	Intel® Xeon E-2124 processor	(8M cache 3.3GHZ), 4 core, 71W TDP
Intel	Intel® Xeon E-2134 processor	(8M cache 3.5GHZ), 4 core, 71W TDP
Intel	Intel® Xeon® E-2274G processor	(8M cache 1.20GHZ), 4 core, 83W TDP
Intel	Intel® Xeon E 2288G processor	(16M cache 3.70GHZ), 8 core, 95W TDP
Intel	Intel® Xeon E2234 processor	(8M cache 3.60GHZ), 4 core, 71W TDP
Intel	Intel® Xeon E2286G processor	(12M cache 4.90GHZ), 6 core, 95W TDP
Intel	Intel® Xeon E2244G processor	(8M cache 3.80GHZ), 4 core, 71W TDP
Intel	Intel® Core™ i7 9700TE processor	(12M cache 3.80GHZ), 8 core, 35W TDP

Disclaimer: The parts listed [above/below] have been validated by Intel for interoperability with server system(s) xyz(list).

Note: No regulatory compliance testing has been performed by Intel on the system resulting from the integration of the listed parts with the identified Intel® server systems. Regulatory compliance of the system is the responsibility of the integrator.

Table 10. Tested adapters and peripherals

Manufacturer	Order code	Category	Model Name	Description
Intel	I210-T1	Ethernet	Intel® Ethernet Server Adapter I210-T1	Intel® Ethernet Server Adapter I210-T1
Intel	I350T4	Ethernet	Intel® Ethernet Network Adapter OCP3.0 I350-T4	Intel® Ethernet Server Adapter I350-T4
Intel	I350T2	Ethernet	Intel® Ethernet Server Adapter I350-T2	Intel® Ethernet Server Adapter I350-T2
Intel	X710DA2	Ethernet	Intel® Ethernet Converged Network Adapter X710-DA2	Intel® Ethernet Converged Network Adapter X710-DA2
Intel	I350T2V2	Ethernet	Intel® Ethernet Server Adapter I350-T2V2	Intel® Ethernet Server Adapter I350-T2V2
Intel	I350T4V2	Ethernet	Intel® Ethernet Server Adapter I350-T4V2	Intel® Ethernet Server Adapter I350-T4V2
Intel	X550T2	Ethernet	Intel® Ethernet Converged Network Adapter X550-T2	Intel® Ethernet Converged Network Adapter X550-T2
Intel	X540-T1	Ethernet	Intel® Ethernet Converged Network Adapter X540-T1	Intel® Ethernet Converged Network Adapter X540-T1
Tyan*	P1115	Ethernet	TYAN® NIC P1115	GbE, 1000Base-T, Ports 4
Tyan*	P1117	Ethernet	TYAN® NIC P1117	10GbE, 10GBase-T, Ports 2
Tyan*	P1118	Ethernet	TYAN® NIC P1118	10GbE, SFP+, Ports 2

Disclaimer: The parts listed [above/below] have been validated by Intel for interoperability with server system(s) xyz(list).

Note: No regulatory compliance testing has been performed by Intel on the system resulting from the integration of the listed parts with the identified Intel® server systems. Regulatory compliance of the system is the responsibility of the integrator.

Table 11. Tested drives

Manufacturer	Order code	Model Name	Type	Description
Intel	SSDSC2KG480G801	Intel® SSD D3-S4610 Series	SSD-SATA	480GBTB, 2.5in SATA 6Gb/s, 3D2, TLC
Intel	SSDSC2KG960G801	Intel® SSD D3-S4610 Series	SSD-SATA	960GB, 2.5in SATA 6Gb/s, 3D2, TLC
Intel	SSDSC2KG038T801	Intel® SSD D3-S4610 Series	SSD-SATA	3.84TB, 2.5in, SATA 6Gb/s, 3D2, TLC
Intel	SSDSC2KG240G801	Intel® SSD D3-S4610 Series	SSD-SATA	240GB, 2.5in SATA 6Gb/s, 3D2, TLC
Intel	SSDSC2KG019T801	Intel® SSD D3-S4610 Series	SSD-SATA	1.92TB, 2.5in SATA 6Gb/s, 3D2, TLC
Intel	SSDSC2BA400G3	Intel® SSD DC S3700 Series	SSD-SATA	2.5", SATA 6Gb/s, 400GB
Intel	SSDSC2BB480G4	Intel® SSD DC S3500 Series	SSD-SATA	2.5", SATA 6Gb/s, 480GB
Intel	D3-S4510	Intel® SSD D3-S4510 Series	SSD-SATA	2.5", SATA 6Gb/s, 480GB
Micron*	MTFDDAK960MAV	Micron* M500 960GB 2.5-inch SATA III MLC	SSD-SATA	2.5", SATA 6Gb/s, 960GB
SanDisk*	SD6SB2M-256G	SanDisk* X210 2.5" 256GB SATA 6Gb/s MLC	SSD-SATA	2.5", SATA 6Gb/s, 256GB
SanDisk*	SD7SB7S-960G	SanDisk* X300dc 960GB TLC SATA 6gbps 2.5" SSD	SSD-SATA	2.5", SATA 6Gb/s, 960GB

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Manufacturer	Order code	Model Name	Type	Description
SanDisk*	SD6SB2M-512G	SanDisk* 512GB MLC SATA III 2.5 SSD	SSD-SATA	2.5", SATA 6Gb/s, 512GB
Seagate*	ST1000NX0423	Seagate* ST1000NX0423* 1 TB Hard Drive - SATA	HDD-SATA	2.5 HDD, 1TB, 512N
Seagate*	ST3000NC002	Seagate Constellation* CS ST3000NC002 3 TB 3.5" Internal Hard Drive	HDD-SATA	3.5", SATA 6Gb/s, 3TB
Seagate*	ST33000650NS	Seagate Constellation* ES.2 ST33000650NS 3 TB Internal Hard Drive	HDD-SATA	3.5", SATA 6Gb/s, 3TB
Seagate*	ST32000641AS	Seagate BarraCuda* XT ST32000641AS 2TB 7200 RPM 64MB SATA 6.0Gb/s 3.5" Internal Hard Drive Bare Drive	HDD-SATA	3.5", SATA 3Gb/s, 2TB
Seagate*	ST9500530NS	Seagate Constellation* ST9500530NS 500GB 7200 RPM 32MB Cache SATA 3.0Gb/s 2.5"	HDD-SATA	3.5", SATA 3Gb/s, 2TB
Seagate*	ST9500620NS	Seagate Constellation* 2 ST9500620NS 500GB 7200 RPM 64MB Cache SATA 6.0Gb/s 2.5"	HDD-SATA	2.5", SATA 6Gb/s, 500GB
Seagate*	ST8000NC0002	Seagate Enterprise* NAS HDD ST8000NC0002 - hard drive - 8 TB - SATA 6Gb/s	HDD-SATA	3.5", SATA 6Gb/s, 8TB
Seagate*	ST91000640NS	Seagate Constellation* 2 ST91000640NS 1TB 7200 RPM 64MB Cache SATA 6.0Gb/s 2.5"	HDD-SATA	2.5", SATA 6Gb/s, 1TB
Seagate*	ST33000651AS/P	Seagate® ST33000651AS	HDD-SATA	3.5", SATA 6Gb/s, 3TB
Seagate*	ST4000NM0033	Seagate Constellation* ES.3 ST4000NM0033 4TB 7200 RPM 128MB Cache SATA 6.0Gb/s 3.5"	HDD-SATA	3.5", SATA 6Gb/s, 4TB
Toshiba*	MG03AC400	TOSHIBA* MG04ACAxxxx Series	HDD-SATA	3.5", SATA 6Gb/s, 4TB
Western Digital*	WD3000BLHX	Western Digital* wd3000blhx Velociraptor 300 Gb 10000RPM 32 MB SATA 6.0 Gb/s 2.5	HDD-SATA	2.5", SATA 6Gb/s, 300GB
Western Digital*	WD1002FBYS	Western Digital* RE3 WD1002FBYS 1TB 7200 RPM 32MB Cache SATA 3.0Gb/s 3.5" Internal Hard Drive	HDD-SATA	3.5", SATA 3Gb/s, 1TB
Western Digital*	WD1003FBYX	Western Digital* WD RE4 WD1003FBYX 1TB 7200 RPM 64MB Cache SATA 3.0Gb/s 3.5" Internal Enterprise Hard Drive	HDD-SATA	3.5", SATA 3Gb/s, 1TB

Disclaimer: The parts listed [above/below] have been validated by Intel for interoperability with server system(s) xyz(list).

Note: No regulatory compliance testing has been performed by Intel on the system resulting from the integration of the listed parts with the identified Intel® server systems. Regulatory compliance of the system is the responsibility of the integrator.

Table 12. Tested HBA/RAID Cards

Manufacturer	Model	Description
Broadcom*	SAS 9240-8i	SAS 6Gb/s MegaRAID, Mini-SAS HD (SFF-8087) Ports 2
Broadcom*	SAS 9217-4I4E	SAS 6Gb/s Integrated RAID, Mini-SAS HD (SFF-8087) Ports 4
Broadcom*	SAS 9217-8i	SAS 6Gb/s MegaRAID, Mini-SAS HD (SFF-8087) Ports 8
Broadcom*	SAS 9361-4i	SAS 12Gb/s MegaRAID, Mini-SAS HD (SFF-8643) Ports 4
Intel	RS3DC080	SAS/SATA 12 Gb/s, Low Profile MD2 Card (PCIe* x8 Gen3) Ports 8
Intel	RS3UC080J	SAS/SATA 12Gb/s, Low Profile MD2 Card (PCIe* x8 Gen3) Ports 8
Intel	RS3UC080	SAS/SATA 12Gb/s, Low Profile MD2 Card (PCIe* x8 Gen3) Ports 8

Disclaimer: The parts listed [above/below] have been validated by Intel for interoperability with server system(s) xyz(list).

Note: No regulatory compliance testing has been performed by Intel on the system resulting from the integration of the listed parts with the identified Intel® server systems. Regulatory compliance of the system is the responsibility of the integrator.

Table 13. Tested operating systems

Operating System	Type of Testing
Microsoft Windows* 2022 Standard/Data Center	Compatibility and Stress
Microsoft Windows* 2019 Standard/Data Center	Compatibility and Stress
Red Hat Enterprise Linux* 8.4	Compatibility and Stress
Red Hat Enterprise Linux* 7.6	Compatibility and Stress
SUSE Linux* Enterprise Server 15	Basic installation and compatibility
CentOS* 8.4	Compatibility and Stress
CentOS* 7.5	Basic installation and compatibility
CentOS* 7.6	Basic installation and compatibility
Ubuntu* 20.04 LTS Server/Desktop	Basic installation
Microsoft Windows* 2010	Basic installation
Microsoft Windows* Server 2016	Basic installation
Red Hat Enterprise Linux* 7.5	Basic installation
Red Hat Enterprise Linux* 7.4	Basic installation
CentOS* 7.4	Basic installation
VMware ESXi* 7.0	Basic installation

Disclaimer: The parts listed [above/below] have been validated by Intel for interoperability with server system(s) xyz(list).

Note: No regulatory compliance testing has been performed by Intel on the system resulting from the integration of the listed parts with the identified Intel® server systems. Regulatory compliance of the system is the responsibility of the integrator.

Table 14. Reference Chassis Compatibility List

Vendor	Model	Chassis type	Power supply	CPU Heat Sink	System Fan	Details	Thermal Report
In-Win	PE689 Series	Pedestal	Single In-Win* IP-S450DQ3-2H	CooljagUSA.com Cooljag* JYC1B45ATPG	1x AD1212UB-A7BGL	PE689.U3, WD1005FBYZ (5) 3.5" Drives E2186G (95W) @ 35C	MiTAC: available on request
Chenbro	SR209 Series	Pedestal	Sea Sonic FOCUS PLUS* 1000 Gold SSR-1000FX 1000W	Invnitech.com Invni* ME15057 (TPAAP706575-000)	2x Sunon* PF80251B2-0000-S99 4500RPM	1x AVC DA12025B12LP502K 2600RPM SR209, WD SATA WD10JPLX 1TB (2), E2278G 95W @ 35C	Chenbro: available on request
Chenbro	RM146 Series	Rack (1U)	3Y YH-5401R 350W (redundance1+1)	Microloops.com Microloops-TSM-MT0483-VN	4x NMB-04028DA-12P-EU	RM14610, ST1200MM0088 2.5" drives (10) E2286G 80W @ 35C	Chenbro: available on request
Chenbro	RM146 Series	Rack (1U)	Single AcBel* FSE001 400W	Invnitech.com INVNI-MA16115-1	3x NMB-04028DA-12P-EU	RM14604, ST8000NM0055 3.5" drives (4) E2278G 80W @ 35C	Chenbro: available on request

Appendix B. Glossary

Term	Definition
Intel® AVX-512	Intel® Advanced Vector Extensions 512
BOM	Bill of Materials
DDR4	Double-Data Rate 4
DIMM	Dual Inline Memory Module
DR	Double Rank
SR	Single Rank
EAN	International Article Number (Barcode)
ECC	Error Correcting Code
FRU	Field Replaceable Unit
iPC	Intel Product Code
iPN	Intel Product Number
MM#	Main Material order number
MOQ	Minimum Order Quantity
PCIe*	PCI Express*
UPC	Universal Product Code (Barcode)
Intel® VROC	Intel® Virtual RAID on CPU
TCG	Trusted Computing Group