



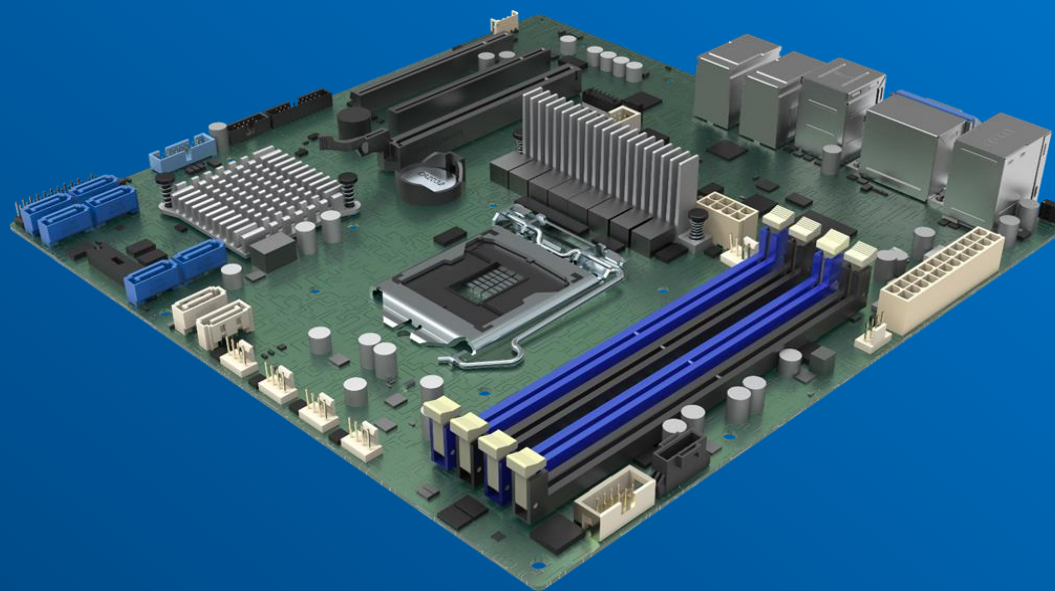
Intel® Server Board M10JNP2SB

Configuration Guide

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

Rev 1.4

January 2020



M10JNP2SB

<Blank page>

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.

Disclaimer

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software, or service activation. Performance varies depending on system configuration. No computer system can be absolutely secure. Check with your system manufacturer or retailer or learn more at intel.com.

You may not use or facilitate the use of this document in connection with any infringement or other legal analysis concerning Intel products described herein. You agree to grant Intel a non-exclusive, royalty-free license to any patent claim thereafter drafted which includes subject matter disclosed herein.

No license (express or implied, by estoppel or otherwise) to any intellectual property rights is granted by this document.

The products described may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.

Intel disclaims all express and implied warranties, including without limitation, the implied warranties of merchantability, fitness for a particular purpose, and non-infringement, as well as any warranty arising from course of performance, course of dealing, or usage in trade.

Copies of documents which have an order number and are referenced in this document may be obtained by calling 1-800-548-4725 or by visiting www.intel.com/design/literature.htm.

Intel, the Intel logo, and Xeon are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries.

*Other names and brands may be claimed as the property of others.

© Intel Corporation

Table of Contents

1. Intel Server Board Overview	7
1.1 Intel® Server Board M10JNP2SB Feature Overview	8
1.1.1 Processor Support.....	10
1.1.2 Processor Features.....	11
1.1.3 Memory Support	12
1.2 Additional Information and Software	13
2. Intel® Server Board M10JNP2SB Options	14
3. Accessory Options.....	15
3.1 Miscellaneous Accessory Options.....	15
Appendix A. Tested Hardware and Operating System	16
Appendix B. Glossary	23

List of Figures

Figure 1. Intel® Server Board M10JNP2SB	7
Figure 2. Server board component / feature identification.....	8

List of Tables

Table 1. Intel® Server Board M10JNP2SB features/specifications	9
Table 2. Intel® Xeon® E-2100 processor family features list.....	11
Table 3. Intel® Xeon® E-2200 processor family features list.....	11
Table 4. Product family reference collaterals	13
Table 5. Intel® Server Board DBM10JNP2SB product specifications.....	14
Table 6. Intel® Server Board BBM10JNP2SB product specifications.....	14
Table 7. Miscellaneous accessory options	15
Table 8. Tested memory	16
Table 9. Tested processor	17
Table 10. Tested adapters and peripherals	18
Table 11. Tested drives	19
Table 12. Tested HBA/RAID Cards.....	21
Table 13. Tested operating systems.....	21
Table 14. Reference Chassis Compatibility List	22

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 work load. This server board is designed to support the Intel® Xeon® E 2200 processor family.

1.1 Intel® Server Board M10JNP2SB Feature Overview

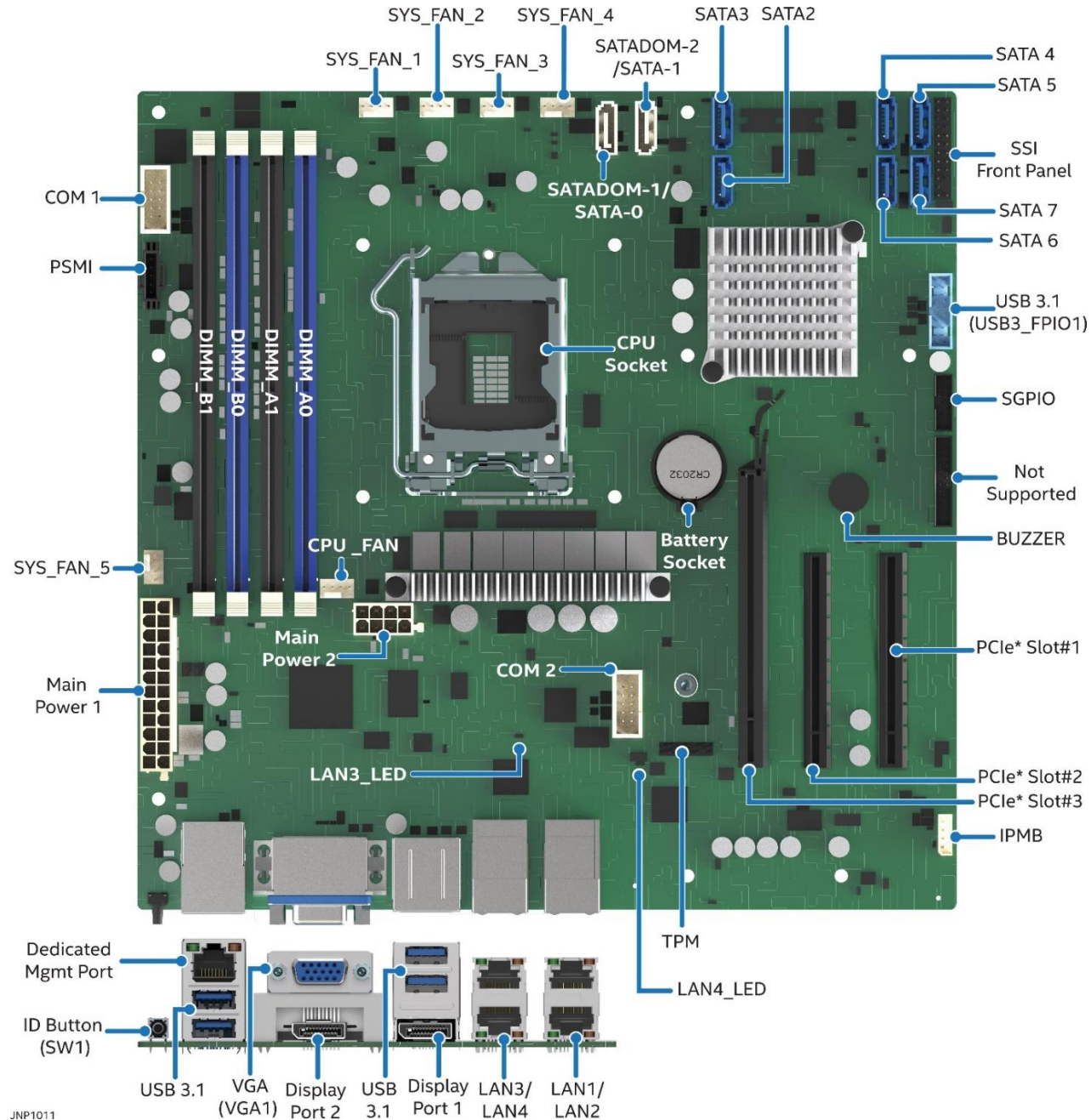


Table 1. Intel® Server Board M10JNP2SB features/specifications

Feature	Description
Processor support	- 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 Note: Server Systems based on this server board may support a lower maximum Thermal Design Power (TDP).
Memory	- 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	- Four 1GbE Base-T, RJ45 - One dedicated management port, RJ45
Onboard Storage Support	- 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	Intel® RSTe
PCIe* Add-in Card Slots	- 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	Support for one PCIe 3.0 riser card on PCIe slot 3. (Sold separately. Optional Intel Accessory): Riser card with one PCIe* 3.0 slot (x16 mechanical, x8 electrical) – iPC JNP1URISER
Video	- Integrated 2D video controller 16 MB of DDR4 video memory - One DB-15 external connector - Two External Display Port connectors
USB	- Four external USB 3.1 Gen2 ports - One 2x10 pin connector providing front panel support for (2) USB 3.1 Gen1 ports
Serial Port	Two internal DH-10 serial port connectors
Server Management	- Integrated baseboard management controller, IPMI 2.0 compliant - Dedicated RJ45 management port
Security	- 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	- Two 4-pin processor fan headers - Six 6-pin front system fan headers

Feature	Description
	One 4-pin rear system fan header
Front Panel Support	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 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-2236 Processor
- Intel® Xeon E-2278G Processor

Table 3 and Table 2 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

Features	Intel® Xeon® E-2224 Processor	Intel® Xeon® E-2236 Processor	Intel® Xeon® E-2278G Processor
Cores/Threads	4/4	6/12	8/16
Max Turbo Frequency	4.7 Ghz	4.8 Ghz	5.0 Ghz
Base Frequency	3.5 Ghz	3.4 Ghz	3.8 Ghz
Intel® Smart Cache	8 Mb	12 Mb	12 Mb
Intel® UHD Graphics	P360	N/A	P360
DDR4 ECC UDIMM	128 Gb	128 Gb	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® Hyperthreading 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
- Only Error Correction Code (ECC) enabled 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

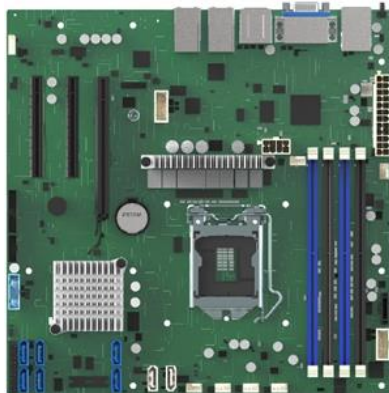
Intel® Server Board M10JNP2SB, 5-Pack				
	iPC	DBM10JNP2SB	Product type	Server Board
	MM#	999PL9	Form factor	Micro ATX
	UPC	00735858433853	Packaged gross wt.	19.2 lbs. (8.7 kg)
	EAN	5032037175791	Un-packaged net wt.	14.1 lbs. (6.4 kg)
	MOQ	1	Dimensions	9.6"W x 9.6"L
	• One FLGA1151 processor socket • Intel® C246 Chipset • Four 1GbE Base-T, RJ45 network ports • Eight SATA 6Gbps ports			
	See Table 1 for full feature set			
Pack includes:				
• (5) - Intel® Server Board M10JNP2SB • (5) – I/O shield				

Table 6. Intel® Server Board BBM10JNP2SB product specifications

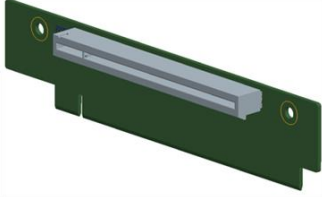
Intel® Server Board M10JNP2SB, 10-Pack				
	iPC	BBM10JNP2SB	Product type	Server Board
	MM#	999PLA	Form factor	Micro ATX
	UPC	00735858433877	Packaged gross wt.	19.2 lbs. (8.7 kg)
	EAN	5032037175814	Un-packaged net wt.	14.1 lbs. (6.4 kg)
	MOQ	1	Dimensions	9.6"W x 9.6"L
	- One FLGA1151 processor socket - Intel® C246 Chipset - Four 1GbE Base-T, RJ45 network ports - Eight SATA 6Gbps ports			
	See Table 1 for full feature set			
Pack includes:				
(5) - Intel® Server Board M10JNP2SB (5) – 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
	1U One-Slot PCIe Riser Card, Pack of 40 iPC JNP1URISER MM# 999PLF UPC 00735858432214 EAN 5032037174206 MOQ 1 Product type Accessory kit	1U One-Slot PCIe Riser Card kit Support for one PCIe* slot (x8 elec., x16 mechanical) Pack includes 40 pieces
	Trusted Platform Module (TPM) 2.0, Pack of 40 iPC JNPTPM MM# 999PLH UPC 00735858433884 EAN 5032037175821 MOQ 1 Product type Accessory kit	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 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. JNPTPM implements TPM as per TPM PC Client specifications revision 2.0 by the Trusted Computing Group (TCG) Pack Contains 40 pieces.
	Trusted Platform Module (TPM) 2.0, Pack of 40 iPC JNPTPMCH MM# 999PLH UPC 00735858433884 EAN 5032037175821 MOQ 1 Product type Accessory kit	Note: JNPTPMCH compatible for use in China 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 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. JNPTPMCH implements TPM as per TPM PC Client specifications revision 2.0 by the Trusted Computing Group (TCG) Pack Contains 40 pieces.

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.

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	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

Table 9. Tested processor

Manufacturer	Model	Description
Intel	Intel® Xeon E-2224	(8M cache, 3.4GHZ) Skt H4, FCLGA 1151, 80W TDP
Intel	Intel® Xeon E-2236	(12M Cache, 3.4GHZ) Skt H4, FCLGA 1151, 80W TDP
Intel	Intel® Xeon E 2278G	1(6M Cache, 3.4GHZ) Skt H4, FCLGA 1151, 80W TDP
Intel	Intel® Xeon E-2104G	(8M cache 3.2GHZ), 4 core, 65W TDP
Intel	Intel® Xeon E-2124G	(8M cache 3.4GHZ), 4 core, 71W TDP
Intel	Intel® Xeon E-2126G	(12M cache 3.3GHZ), 6 core, 80W TDP
Intel	Intel® Xeon E-2146G	(12M cache 3.5GHZ), 6 core, 80W TDP
Intel	Intel® Xeon E-2176G	(12M cache 3.7GHZ), 6 core, 80W TDP
Intel	Intel® Xeon E-2186G	(12M cache 3.8GHZ), 6 core, 95W TDP
Intel	Intel® Xeon E-2174G	(8M cache 3.8GHZ), 4 core, 71W TDP
Intel	Intel® Xeon E-2136	(12M cache 3.3GHZ), 6 core, 80W TDP
Intel	Intel® Xeon E-2124	(8M cache 3.3GHZ), 4 core, 71W TDP
Intel	Intel® Xeon E-2134	(8M cache 3.5GHZ), 4 core, 71W TDP

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

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

Intel® Server Board M10JNP2SB Configuration Guide

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	2.5", SATA 3Gb/s, 500GB
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* MG04ACxxxx 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

Intel® Server Board M10JNP2SB Configuration Guide

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
-----------------	------------	---	----------	-----------------------

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

Table 13. Tested operating systems

Operating System	Type of Testing
Microsoft Windows* 2019 Standard/Data Center	Compatibility and Stress
Red Hat Enterprise Linux* 7.6	Compatibility and Stress
SUSE Linux Enterprise Server 15	Basic installation and compatibility
CentOS* 7.5	Basic installation and compatibility
CentOS* 7.6	Basic installation and compatibility
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

Table 14. Reference Chassis Compatibility List

Vendor	Model	Chassis type	Power supply	CPU Heatsink	System Fan	Details	Thermal Report
In-Win	PE689 Series	Pedestal	Single In-Win* IP-S450DQ3-2H	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	Invni* ME15057	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-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	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
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
iPC	Intel Product Code
iPN	Intel Product Number
MM#	Master 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