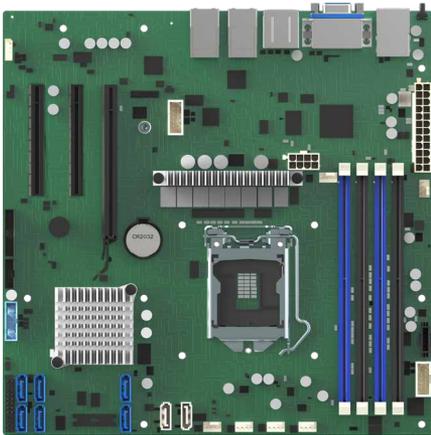intel®

**Intel® Server Board M10JNP2SB product family
featuring the Intel® Xeon® E family of processors**

Reliable, Cost-Effective, Easy-to-Manage Server Board for Entry-Level Server Solutions

Outstanding Performance with Reliability

Entry level cloud and enterprises need a performant yet cost-effective system that scales with their growth. Embedded applications and small business applications are also growing and are hungrier than ever for performance. The Intel® Server Board M10JNP2SB has been designed to address these market segments with the improved power, performance, and reliability of the Intel® Xeon® E processors. This server board fits into both 1U rack and pedestal chassis making it an ideal product for SMB, web hosting, content delivery, storage, entry-level cloud/enterprise, and embedded applications.

Key Features

- Intel Xeon E processors with up to eight cores and 16 threads; up to 5.0 GHz **Intel® Turbo Boost Technology** frequency; and up to 128 GB DDR4 ECC 2666 MHz memory support delivering rapid workload loading and processing.

- Enhanced **Intel® Software Guard Extensions** support increased security for application code and data protection.

- Twenty lanes of PCIe* 3.0 provide storage and network expandability for faster, smoother, and amazingly responsive I/O.

- Entry reliability, serviceability, and availability (RAS) with Intel® Server Platform Services deliver hardware-enhanced security and remote manageability.

- Server management features include a dedicated 1GBase-T management port, IPMI 2.0, and BMC.

System-Level Options for Flexibility and Choice

The M10JNP2SB server board is configurable with both rack and pedestal chassis. As part of the product Ship Release and General Availability, the chassis listed below in the Reference Chassis List are tested for airflow to keep critical server components to manufacturer's temperature specifications.

VENDOR	MODEL	TYPE	POWER SUPPLY UNIT
In-Win*	PE689 Series	Pedestal	Single
Chenbro*	SR209 Series	Pedestal	Single
Chenbro	RM146 Series	Rack (1U)	Redundant (1+1)
Chenbro	RM146 Series	Rack (1U)	Single

- The customer is responsible for ensuring their configuration meets all component power, thermal, and mechanical requirements.
- Consult the *Intel® Xeon® E Processor Thermal Mechanical Design Guide Rev 2.0*, Reference Number: 573012.
- Intel does not stock or sell chassis components.

Built with Intel® Quality, Reliability and Performance

Intel® Server products are backed by Intel's expertise to deliver a quality product. This product is paired with a three-year standard warranty and robust technical incident resolution for complete customer satisfaction.

INTEL® SERVER BOARD M10JNP2SB SPECIFICATIONS

SERVER BOARD SPECIFICATION	DETAILS
Processor	Intel® Xeon® E processor, up to 95 W TDP
Chipset	Intel® C246 chipset
Memory	Four DIMM slots supporting up to 128 GB DDR UDIMM ECC 2666/2400 MT/s
PCIe*	• One PCIe 3.0 x8 with x16 slot • One PCIe 3.0 x8 with x8 slot • One PCIe 3.0 x4 with x8 slot
SATA	• Six SATA ports via Intel C246 RAID 0/1/10/5 (Intel® VROC (SATA RAID)) • Two SATA-DOM ports via Intel C246 RAID 0/1/10/5 (Intel VROC (SATA RAID))
Networking	Four 1GBase-T RJ5 ports via Intel® i210 Ethernet Controller
I/O	• Four USB 3.1 Gen 2 ports at rear • Two USB 3.1 Gen 1 ports via cable • COM1 and COM2 header on motherboard • Two DDI display ports
Manageability	• ASPEED* IPMI 2.0 compliant BMC • Dedicated management RJ45 port • D-sub VGA port
Security	One connector for optional TPM 2.0 module

INTEL® SERVER BOARD AND ACCESSORIES ORDER CODES

ORDER CODE	DESCRIPTION
M10JNP2SB	Intel® Server Board M10JNP2SB
JNP1URISER	PCIe* riser module
JNPTPM	TPM 2.0 module (rest-of-world)
JNPTPMCH	TPM 2.0 module (China)

See *Intel® Server M10JNPSB Product Family Configuration Guide* for accessory kit and spare order codes.

For more information on Intel Server Products and Solutions visit: intel.com/serverproducts.

For product specifications visit: ark.intel.com.