

Accelerate Time-to-Market with High-Performance SMB Server Solutions

Intel® Server Products for Enterprise – SMB Server Blocks

SMB, Embedded, Storage and Security Appliance Applications



SMB Server Blocks from Intel

- **Fully Validated server block** saves time and money¹, freeing up resources to focus on value-add and competitive differentiation
- **Unbranded systems** allow resellers to customize and brand to meet end-user requirements
- **Intel Quality & Reliability** with world-class integration, validation, certification, and support
- **Standard Intel 3-year warranty** ensures customer satisfaction

Making it Easier to Deliver Competitive SMB Server Solutions

In a highly competitive market, small and medium businesses (SMB) need IT solutions that deliver business-class performance with high levels of reliability and security. They also need solutions that are cost efficient, easy to manage and can scale as they grow.

SMB businesses are turning to easy-to-manage, entry-level servers to address these needs. With an on-premises server, businesses can reduce costs and improve application performance and reliability. With security features built in, a server helps protect data and provides support for back-up/ recovery needs.² Employees also have secure, 24/7 access to the data and systems that will help drive innovation and growth.

To help address this demand for SMB server solutions, Intel is providing pre-configured, fully-validated SMB Server Blocks that will help accelerate time to market with server solutions optimized for the needs of small and medium businesses. The SMB Server Block from Intel is a semi-integrated product that includes Intel components and 3rd party memory, in an unbranded offering that will help reduce the complexity

and costs associated with designing, configuring and validating server solutions. With this pre-configured building block, Intel partners can remain competitive in a growing and cost-sensitive market.

Reduced Complexity, Improved ROI & Faster Time to Market

Designing, testing and validating server solutions is a costly and resource-intensive process. By taking advantage of Intel engineering and validation resources, resellers can reduce both capital and operational costs by starting with a higher level of integration. This approach gives partners more flexibility and choice about where to invest R&D funds to ensure they remain competitive and drive differentiation in the market.

By starting with an SMB Server Block, resellers can bring Intel® Xeon® based server solutions to market faster, meeting the demands of a dynamic and fast-paced market. There is also increased acquisition value as purchasing a validated, bundled solution simplifies the order process while offering cost savings. This value can be passed on to the customer with server solutions that deliver enterprise-class features at an affordable price.

SMB Server Blocks

Fully-validated systems based on Intel® Server Board S1200SPL, Intel® Xeon® Processor E3-1230 v5, Intel® Server Chassis P4304XXSFCN and other Intel components.

Features:

- 16GB DDR4 UDIMM, 2133MHZ
- One Intel® SSD (120GB, 2.5in)
- 3x PCIe Gen3 expansion slots and one Intel® Integrated RAID Module slot
- 2x GbE (i210)
- One dedicated management network port
- One 365w PSU

Upgrade Options:

- Maximum 4x DDR4 UDIMM 2133Mhz
- Maximum 4x 3.5"/2.5" drives

Help Your Customers

- Increase productivity
- Secure business data
- Enable backup/recovery
- Gain reliable access to business critical applications
- Reduce costs
- Grow and innovate

Intel Built for Quality, Reliability and Value

Designed for SMB Needs

SMB Server Blocks from Intel are powered by the latest Intel technology, and include Intel® Server Board S1200SP product family that can scale as customers grow via SATA and PCIe* expansion options for increased storage functionality or faster networking speed. The SMB Server Block is designed with small businesses in mind, featuring a pedestal configuration that is quiet and well-suited for a small business environment. To make server management easier, this product features Intel® Node Manager and Intel® Remote Management Modules to enable secure, anywhere-access from any device, and provide ongoing monitoring and troubleshooting.



Business-Class Performance with Intel® Xeon® processor E3 Family

These pre-configured server blocks feature the Intel® Xeon® processor E3 family that delivers high memory, I/O and storage capacity, fast application loading and performance, and the capacity to support multiple users. This latest processor from Intel delivers increased productivity with Intel® Turbo Boost Technology, Intel® Hyper-Threading Technology, and more performance than previous generations.³ It also delivers hardware-based security features like Intel® Data Protection Technology and Intel® Platform Protection technology for better protection of data.²

Smart Boards Ensure System Stability and Increased Uptime

Intel® Server Boards have more than 100 sensors built in that monitor all critical functions and use management capabilities to automatically flag problems before they impact business operations. Event logs and light-guided diagnostics also assist in rapid identification and remediation of issues.

Intel Warranty Delivers Value and Confidence

SMB Server Blocks from Intel come with a standard three-year warranty that includes the option to extend coverage to five years. Warranties come with Intel's 24/7 technical support and commitment to replace or refund any product that fails. Additionally, since all components are purchased in a single SKU, there is a single source for all support needs.

Engage with Intel Today

Intel continuously delivers leading-edge technologies to help you innovate and differentiate in the market. This is true with SMB Server Blocks from Intel, designed to help you realize an easier path to reliable SMB server solutions.

Contact your Intel sales representative or Intel authorized distributor for any inquiries.

More information can be found at <http://www.intelserveredge.com/smb-server-block/>



SMB Server Block		Components Included in the system	
Order Code: LSVRP4304ES6XX1 MM#: 951054	Component	Description	
	Board	Intel® Server Board S1200SPL	
	CPU	Intel® Xeon® Processor E3-1230 v5 (8M Cache, 3.40 GHz)	
	Chassis	Intel 4U chassis with 4x3.5 fixed drive trays, one 365W PSUs (P4304XXSFCN)	
	Remote Management	Intel® Remote Management Module 4 Lite 2 (AXXRMM4LITE2)	
	Memory	16GB, 2133MHZ, DDR4, UDIMM	
	Storage	Intel® SSD DC S3510 Series (120GB, 2.5in SATA 6Gb/s, 16nm, MLC)	

Server Board Specification	S1200SPL
On Board LAN	2x 1GbE (i210)
Board Dimensions	microATX 9.6" x 9.6"
CPU	Single Intel® Xeon® processor E3-1200 v5, up to 80W TDP
Socket	Socket-H4 LGA1151
Chipset	Intel® C236 chipset
Memory Type	DDR4 UDIMM ECC at 2133MT/s maximum
Memory Capacity	4 DIMMs, 64GB total

External I/O Connectors	S1200SPL
USB	Two USB 2.0 and two USB 3.0 ports on back panel
Ethernet	Dual 1GBase-T (RJ45) Single 1GBase-T dedicated server management port (RJ45)
Video	GT2 Graphics (Display Port) VGA graphics via BMC (DB-15 VGA) (GT2 graphics)

Internal I/O Connectors and Headers	S1200SPL
USB	One Type A USB 2.0 connector Two USB 2.0 ports via header for front panel Two USB 2.0/3.0 ports via header for front panel
Serial Port	One DH-10 Serial Port connector
SSI Front Panel	One 2x12 pin SSI front panel header
SATA	Eight SATA3 via 7-pin SATA connectors
SATADOM	SATA 4 connector for Apacer*SATADOM
TPM	One TPM 1.2 module, 2x7 pin connector
Intel® Remote Management Module 4	One 2x4 pin connector for Intel RMM4 key (AXXRMM4LITE2), KVM and remote media redirection

Expansion Type	S1200SPL
I/O Modules	One proprietary slot for a x4 Intel® Integrated RAID Module
PCIe Slots	1 PCIe Gen3 x8 w/ x16 connector 1 PCIe Gen3 x4 w/ x8 connector 1 PCIe Gen3 x8 w/ x8 connector

For product specifications visit: ark.intel.com

INTEL® SERVER CHASSIS SPECIFICATIONS

4U Specifications	P4304XXSFCN
Server Board	S1200SPL server board purchased separately
Dimensions	17.24 in (438 mm) x 6.81 in (173mm) x 22.05 in (560 mm) (Height X Width X Depth)
PSUs per chassis	One 365W, fixed
Fans	One rear system fan
Storage	4x3.5" in fixed drive trays

1. *Cost reduction scenarios described are intended as examples of how a given Intel- based product, in the specified circumstances and configurations, may affect future costs and provide cost savings. Circumstances will vary. Intel does not guarantee any costs or cost reduction.*
2. *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.*
3. *Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests, such as SYSmark and MobileMark, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products. For more information go to <http://www.intel.com/performance>*



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