SOLUTION BRIEF

Cloud Service Providers, Enterprise and Small and Medium Business

Intel® Server System M20MYP

Featuring 2nd Generation Intel® Xeon® Scalable Processors

Entry-Level Server Enabling Cost-Effective Performance and Workload Flexibility

Intel® Server System M20MYP

Essential Features and Cost-Effective Performance

Intel® Server System M20MYP delivers essential performance and robust security for an entry-level server. Featuring 2nd Gen Intel® Xeon® Scalable processors, the server delivers outstanding per-core performance across a wide variety of workloads, and built-in security enhancements to help better protect your data and infrastructure. And unlike limited, 1G Ethernet connectivity offered in many entry-level servers, the Intel® Server System M20MYP is equipped with dual 10G Ethernet ports, greatly accelerating network I/O.

Intel® Server System M20MYP can be configured to order to fit your specific performance and cost requirements. Choose the dual-processor 2nd Gen Intel® Xeon® Scalable processor option to handle a wider variety of workloads with more performance headroom, or the single-processor Intel® Xeon® Gold processor U Series option for basic workloads that have predictable, lighter performance requirements. Both offer a variety of security enhancements built into the processor.

1U Server Form Factor with Flexible I/O, Storage and Networking Capacity

- 2nd Generation Intel® Xeon® Scalable Processor
  - Dual 2nd Gen Intel® Xeon® Scalable processors for excellent compute
  - Single Intel® Xeon® Gold processor U Series for extra value
- Integrated dual Intel® 10G Ethernet
- 4 x flexible 3.5” hot-swap SAS/SATA drive bays (2.5” SSD compatible)
- 2 x 16 PCIe Gen 3 add-in card slots
- Operating system boot option via two 80mm M.2 connectors (x2 and x4 PCIe/SATA); BIOS RAID capable
- Intel® SSD, Intel® RAID, Intel® Network and Intel® Remote Management components optional

When to Choose an Entry-Level Server

Workload needs vary greatly. Choosing the right server for each workload that your organization runs is important to ensure the right balance of performance and TCO.

The ideal entry-level server can deliver the right balance of price-performance, security enhancements and operational simplicity for your scale-out deployments and basic workloads.

A Key Member of the Intel® Server Solution Family Portfolio

There is a portfolio of Intel® Server Solutions to handle all your data center and workload requirements. Combined, these servers can run everything from entry-level tasks to your most compute-intensive and data-centric workloads.

The Intel® Server System M20MYP delivers cost-effective performance at the entry level. The Intel® Server System S2600WFR family provides flexible storage, memory and networking options for a variety of mainstream requirements. The Intel® Server System S2600BPR family delivers high-density processing and memory performance for more demanding workloads. And the Intel® Server System S9200WK family is purpose built for HPC and AI workloads—offering the best performance per watt of any Intel® Server System.

As your basic workload demands grow, adding more Intel® Server System M20MYP platforms is a cost-effective scale-out choice to meet those changing needs.

Enterprise-Class Server Management

Intel® Server Solutions provide consistent, enterprise-grade server management across all platforms to simplify deployment, monitoring, updating and debugging.

The consistent interface, tools and utilities simplify and accelerate all stages of the server lifecycle—from build and customize to deployment, to multi-server management, and to single server debug and maintenance.

Deploy with Confidence with Intel Quality, Reliability, Service and Support

All Intel® Server Systems are fully integrated systems with options for configure-to-order CPU, memory, storage, etc.

Intel® Server Solutions are backed by Intel's design excellence and manufacturing expertise to deliver processing power with high levels of flexibility, manageability, and reliability.

Product and design quality are paired with a 3-year standard warranty with a 2-year extended warranty option. 24x7 global technical support and incident resolution support from Intel help ensure customer satisfaction.

And Intel's comprehensive documentation simplifies integration, deployment and operational management, simplifying efforts and saving time.

Purpose-Built to Handle a Variety of Entry-Level Needs

The Intel® Server System M20MYP offers a combination of cost-effective performance, flexibility and essential features that make it an ideal entry-level server for basic requirements in cloud, enterprise and small and medium business server workloads.

Cloud Workloads

- VM and VDI hosting for IaaS/PaaS
- Container-based apps
- Infrastructure orchestration

Enterprise Workloads

- Infrastructure monitoring
- Firewall/edge appliance
- Utility and provisioning

Small and Medium Business Workloads

- Email server
- Small database
- Web server

24/7 global Intel technical support

Outstanding 3-year warranty

Simplified deployment and operations

Mainboard Specifications	Details
Intel Processor	2nd Generation Intel® Xeon® Scalable processor family (Silver and Bronze SKU options) Intel® Xeon® Gold processor U Series
Processor Socket Type	Two Socket-P LGA3647
Maximum Processor TDP	Up to 150 W in dual processor configurations Up to 165 W in select single processor configurations
Intel Chipset	Intel® C624 Chipset
Max DIMM Slots	16 DIMMs with a total of six channels per processor, 2-1-1 configuration
Memory Type	DDR4 RDIMMs or LRDIMMs
Memory Capacity	Up to 1.0TB for Gold CPUs, 512GB for Silver and Bronze CPUs
Memory Speed	2933 MT/s @ 1 DPC, 2667 MT/s @ 1 DPC and 2 DPC (DPC = DIMMs per channel)
Memory Voltage	1.2V, DDR4 Standard I/0 voltage
Video	Integrated 2D video controller with 128MB DDR4 memory
Networking	Dual onboard 10GBase-T ports
TPM Support	One connector for optional TPM 2.0 module
Warranty	3-year limited warranty with a 2-year extended warranty option

I/O Connectors	Details
USB	• Two front panel USB 3.0 ports • Two rear panel USB 2.0 ports • Two rear panel USB 3.0 ports • One internal Type-A USB 2.0 port
Serial	One internal DH-10 Serial-A port header for optional rear serial port support
Video	One DB-15 VGA external connector
Storage	• Two 4-port SATA mini-SAS HD connectors • Two 80-mm M.2 connectors (x2 and x4 PCIe & SATA)
Network	Two integrated 10GbE BASE-T ports

Expansion Options	Details
PCIe Add-in Card Support	Two low profile PCIe 3.0 x 16 slots add-in cards (x16 mechanical and electrical)

Server Management And Security Features	Details
Embedded Server Management Features	• Integrated Baseboard Management Controller, IPMI 2.0 and Redfish support • Dedicated RJ45 1GbE server management port • Standard Server Management features – see product TPS • Intel® Server Management Software support
Advanced Server Management Features	Support for Intel® Remote Management Module 4 Lite accessory option enabling Integrated KVM and Remote Media Redirection
Intel® Transparent Supply Chain	Includes Statement of Conformance and Platform Certificate

Chassis Specifications	Details
Type	Rack chassis, optional 1U rack mount
Max Processor TDP	Up to 150 W in dual processor configurations Up to 165 W in select single processor configurations
Chassis Dimensions	26” (660mm) x 17.2” (438.5mm) x 1.7” (43.2mm)
Packaging Dimensions	994*592*260MM LxWxH
Server Board Support	SSI EEB form factor
Power Supply	750W Common Redundant Power Supply FXX750OCRPS

Expansion Options	PCIe Source	Details
PCIe Slot 1 (server board AIC slot 2)	CPU1	x16 Gen PCIe 3 .0 electrical and mechanical (riser capable)
PCIe Slot 2 (server board AIC slot 6)	CPU0	x16 Gen PCIe 3.0 electrical and mechanical (riser capable)
Notes: PCIe Gen 3.0 unless noted. Use of all PCIe slots requires dual processors populated.		

Storage Options	Total # Of Drives	Type
Hot-Swap Drive Support	Four at 3.5” or 2.5”	Up to four 3.5” or 2.5” fixed SATA drives, cabled SAS drives not supported

Order Code	MM#	Description
M20MYP1UR	999WRX	1U system includes integrated server board, chassis and PSU
MYP1UBEZEL	99A2D7	Optional
AXXELVRAIL A1USHRTRAIL A1UFULLRAIL		Value rail kit (420mm extension) Standard rail kit (780mm extension) CMA rail kit (780mm extension & cable management arm support)
For complete details on the Intel® Server System M20MYP products, accessories and compatible products, visit the online Intel® Server System M20MYP Configuration Guide		
Notes: The maximum memory speed supported depends on the processor used. See Intel® Server System M20MYPIUR 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.		

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