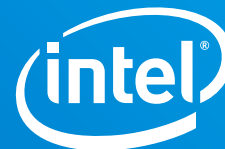


SOLUTION BRIEF

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/O 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 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 M20MYP1UR 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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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 complete information visit intel.com/performance.

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