

Intel® Server System D40AMP Family

Featuring 3rd Generation Intel® Xeon® Scalable Processors

Data Intensive Solution for SDI, VDI, and HCI Workloads



Software-defined Infrastructure



Virtual Desktop Infrastructure



Hyperconverged Infrastructure

Innovative HCI Platform

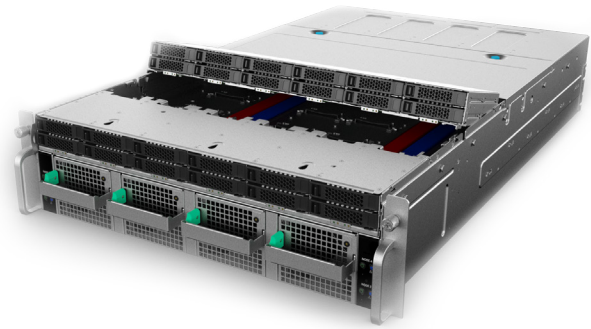
Intel® Server System D40AMP Family delivers innovation to address your HCI compute and storage needs with the 3rd Gen Intel® Xeon® Scalable processor, enabling outstanding storage scalability without performance degradation.

Unique Features for SDI, VDI, and HCI

- Features the latest processor innovation with 3rd Gen Intel® Xeon® Scalable processors in dual-socket compute modules. Additionally, Intel® Optane™ persistent memory 200 series enables greater memory capacity versus DRAM only.
- Innovative 3U design places ultra-high-capacity storage in the top 1U to improve airflow and to enable higher performing processors in the bottom 2U for no-compromise CPU performance enabling an HCI platform that delivers breakthrough compute performance and storage capacity. With up to four modules per server, and double the cores of a typical 2U, 4-node configuration for outstanding compute density and headroom. The chassis supports up to four power supplies, which can be configured to provide 2+1 or 2+2 redundancy for greater resiliency.
- High-performance NVMe storage provides high-speed, easily scalable storage capacity. Available in U.2 or E1.L form factors.
- Delivers ultra-fast I/O through full PCIe 4.0 support. Rapidly moves data across nodes with high-speed networking options for fabric or ethernet PCIe cards. Supports up to 200 Gb network cards.
- Advanced, hardware-enhanced security features better protect your data, applications, and infrastructure.
- Certified for industry-leading HCI solutions—such as VMware vSAN and Microsoft Azure Stack HCI—the Intel® Server System D40AMP Family is your fast path to HCI, private and hybrid cloud deployments.

Accelerating Time to Market with Innovative Data Center Solutions

The Intel® Server System D40AMP Family joins as a high-performance member of Intel® Data Center Solutions for HCI. These fully validated, unbranded server systems include Intel’s latest data center technology— already optimized to work better together—allowing partners to accelerate time to market with reliable data center solutions. The process of configuring and validating the components of solutions that are tuned to meet specific customer requirements is a complex and resource-intensive process. Intel® Data Center Solutions for HCI based on the Intel® Server System D40AMP Family reduce this complexity, making it easier to build innovative server solutions that can support the demands of today’s data center workloads.



Highly Integrated, High Density Compute Solution

The Intel® Server System D40AMP Family can be configured to support a wide range of memory, storage, and I/O options. Solutions are configured using 3rd Gen Intel® Xeon® Scalable processors, Intel® Server System D40AMP Modules, and Intel® Server Chassis VP3000. The Intel® Server Chassis VP3000 family supports chassis-based storage using 24x U.2 or 32x E1.L NVMe drives. Additionally, both chassis configurations support up to 4 PSUs allowing configurations with no redundancy, 2+1 or 2+2 redundant configurations further extending the benefits of Intel® Server System D40AMP Family.



| Intel® Server System D40AMP Compute Module | |
|--|--|
| Component | 1U Half-Width Compute Module |
| CPU | 2S 3rd Gen Intel® Xeon® Scalable processors up to 205W TDP |
| Memory | DDR4 3200 MT/s 16x DIMMS, 8x Intel® Optane™ persistent memory per module; Supports 8GB to 128GB DIMM options, number and capacity configurable |
| Module Storage | 2x M.2 SATA/NVMe SSDs 80 or 110mm |
| DCB Configuration | 3U/4N air-cooled |
| I/O | Integrated 10Gbase-T RJ45 & 2 x16 PCIe 4.0 low-profile slots |
| Debug Support | Dedicated port for VGA, serial, & 2 USB 2.0 port connectivity |

| Intel® Server Chassis VP3000 Options | | |
|--------------------------------------|---|---|
| Component | 2U Front I/O standard-width air-cooled chassis with included rail-kit | 2U Front I/O standard-width air-cooled chassis with included rail-kit |
| Chassis Storage | 24x U.2 NVMe 2.5” drives with direct access PCIe connections | 32x E1.L NVMe drives with direct access PCIe connections |
| Supported Configurations | 4x 1U Half-Width Compute Modules | 4x 1U Half-Width Compute Modules |
| Cooling | 4x 80mm fans & 4x 40mm fans | 4x 80mm fans & 4x 40mm fans |
| Power Supplies | Up to 4x hot-swap CRPS 2100W (Platinum) PSUs | Up to 4x hot-swap CRPS 2100W (Platinum) PSUs |

A Key Member of the Intel® Server System Family Portfolio

The Intel Datacenter Solutions Group has created a portfolio of Intel® Server Systems 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.

Intel® Server Systems can be configured to order to meet your specific needs. You can learn more about these systems in the portfolio by visiting: intel.com/serverproducts.

Enterprise-Class Server Management

Intel® Server Systems 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, to single server debug and maintenance.

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

Intel servers aren't just packed with innovation—they all come with Intel's highly rated, comprehensive services and support package, delivering differentiating value to every stage of the server lifecycle—from pre-purchase and deployment to operations, management and support.

You can take advantage of Intel's proven support and service, including a 3-year warranty (optional 5-year) and global technical support.

Intel® Server Systems are also easy to deploy and operate, with comprehensive documentation for integration, configuration and management. All Intel Server Systems are fully integrated systems with options of configure-to-order CPU, memory, storage, and more.

Additional Resources

Detailed SKU configurations can be found at: <https://www.intel.com/content/www/us/en/products/servers/>

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

For more information on The Intel Server System D40AMP Family visit: www.intel.com/server-system-D40AMP

Marketing Resources: Access a library of marketing assets by visiting the DSG Marketing Asset Library. Visit <https://servermarketinglibrary.intel.com/>

Reduce Risk of Counterfeit Parts with Intel® Transparent Supply Chain

Counterfeit electronic parts are a growing security issue across all organizations, and concerns have grown as supply chains have become increasingly complex, multi-layered and global.

Current supply chain practices start with trusting the source, but processes are limited for screening out counterfeit components, particularly for products containing many subsystems.

Intel® Transparent Supply Chain helps partners and customers verify the authenticity and firmware version of servers and their components, through a set of tools, policies, and procedures implemented on the factory floor at server manufacturers.

This industry-leading approach helps:

- Provide component-level traceability and visibility
- Detect tampering of components and configuration state between stops
- Deliver fleet-level insights across suppliers

These and other safeguards combine to increase assurance and trust that the Intel servers you're purchasing and deploying are free of counterfeit components that could compromise your business or customers.

Intel® Server System D40AMP Modules and Chassis SKUs

| Product Code | MM | Description |
|---------------|--------|---|
| D40AMP1SB | 99AH9K | Intel® Server Board D40AMP |
| D40AMP1MHCPAC | 99AH9L | Intel® Compute Module D40AMP 1U Half-Width Air-Cooled |
| VP3U2HAC21W0 | 99AJLT | Intel® Server Chassis VP3000 Half-Width Configuration for U.2 Air-Cooled |
| VP3E1HAC21W0 | 99AJLN | Intel® Server Chassis VP3000 Half-Width Configuration for E1.L Air-Cooled |

Intel® Server System D40AMP Accessories and Spares SKUs

| Product Code | MM | Description |
|-----------------|--------|--|
| VPXX40MMFAN | 99AJLM | Intel® Server Chassis VP3000 40mm Fan |
| VPXX80MMFAN | 99AJLL | Intel® Server Chassis VP3000 80mm Fan |
| VP3U2HSBASSMBLF | 99AJLJ | Intel® Server Chassis VP3000 U.2 Hot Swap Backplane Assembly Front |
| VP3MPDBASSMBL | 99AJLG | Intel® Server Chassis VP3000 Main Power Board Assembly |
| VP3DPDBASSMBL | 99AJLF | Intel® Server Chassis VP3000 Daughter Power Board Assembly |
| VP3E1LMPASSMBL | 99AJLD | Intel® Server Chassis VP3000 E1.L Midplane Assembly |
| VPXXRAILKIT | 99AJJ8 | Intel® Server Chassis VP3000 External Rail Kit |

Intel® Server System D40AMP Accessories and Spares SKUs

| Product Code | MM | Description |
|--------------|--------|--|
| AXXCONNTDBG | 999D47 | Intel® Compute Module Walker Pass Multi-connector debug dongle |
| AXXFC1UBLANK | 999D49 | 1U Compute Module Blank (codenamed Optimus Beach) |
| FCXX2100CRPS | 999D4L | Intel® Server Chassis (codenamed Optimus Beach) 2100W PSU |
| TNPIUCRRISER | 99AF4H | 1U PCIe D50TNP riser card for D50TNP1MHCRAC and D50TNP1MHCRLC |
| TNPIUHSF | 99A2F9 | D50TNP 1U air-cooled heat sink front, Single |
| TNPIUHSB | 99A2FA | D50TNP 1U air-cooled heat sink back, Single |
| TNPM2HS | 99A2GA | D50TNP M.2 heat sink air-cooled assembly |
| TNPDMMBLNK | 99A5ZC | D50TNP DIMM Blank |
| TNPRLRBLNK | 99AF4C | D50TNP Ruler Blank |



Intel technologies may require enabled hardware, software or service activation.

No product or component can be absolutely secure.

Your costs and results may vary.

© Intel Corporation. Intel, the Intel logo, and other Intel marks are trademarks of Intel Corporation or its subsidiaries. Other names and brands may be claimed as the property of others.

© Intel Corporation Printed in USA 081721/KK/ACG/PDF