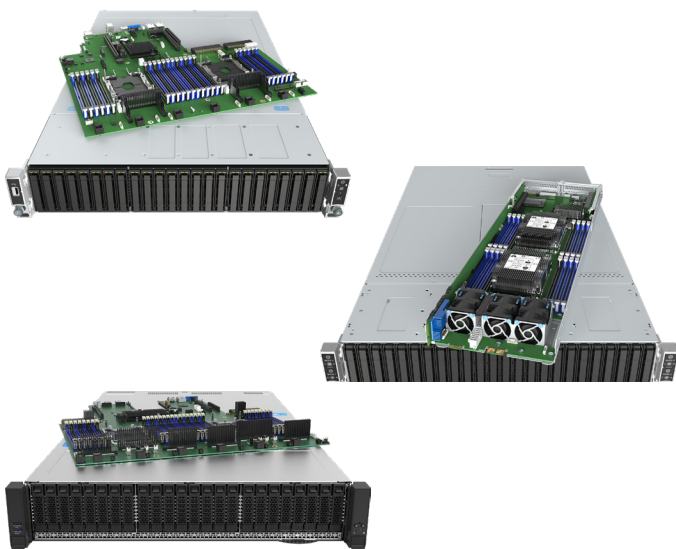


# Intel® Data Center Systems for HCI, certified for Nutanix Enterprise Cloud Platform

## The right choice for virtualized servers and business-critical applications



- **Broad set of components validated by Intel and certified by Nutanix** allows for configuring systems to meet your customer's needs
- **Technology leadership**, including Intel® Optane™ SSD and Intel® Optane™ persistent memory and NVM Express (NVMe)
- **Designed for the fast-growing HCI market** that offers private cloud security and affordability with public cloud scalability
- **Non-branded hardware** enables you to add Nutanix solutions into your own brand portfolio
- **Standard Intel 3-year warranty** with 5-year warranty options available to ensure customer satisfaction

### Hyper-Converged Infrastructure (HCI) Growth Opportunity

As business demands become more dynamic, running workloads on rigid legacy architectures no longer makes sense. Enterprises are shifting from separate storage, networks, and servers to Hyper-Converged Infrastructure (HCI) systems. A single HCI system enables an agile, scalable cloud foundation that delivers more flexibility, easier provisioning, and lower costs. With that in mind, it's no surprise that HCI is a fast-growing market, with a five-year CAGR of 26.6 percent and revenues expected to hit \$7.15 billion, according to research firm IDC<sup>1</sup>.

### Trusted Intel Hardware Certified by Nutanix

Collaboratively, Nutanix and Intel have developed fully validated Intel® Data Center Systems (Intel® DCS) for HCI. The result of this collaboration enables you to accelerate your path to market, grow your business with new revenue streams, and deliver peace of mind to your customers with technology and support from industry leaders.

Intel® DCS for HCI, certified for Nutanix Enterprise Cloud Platform are available as configure-to-order systems that include processors, server boards, chassis, power supply, storage, networking, and memory that have been validated to optimally work together. Value-Added Resellers (VARs) and System Integrators (SIs) can add Nutanix Enterprise Cloud OS software to provide a fast route for building both on-premises and hybrid clouds.

### HCI and the Nutanix Enterprise Cloud Advantage

Your customers are modernizing their data centers and moving to cloud. They need help to transition, deploy, and scale. Intel® DCS for HCI, certified for Nutanix Enterprise Cloud Platform are designed to allow IT teams to build and operate solutions that meld private, public, and distributed hybrid-/multi- cloud operating environments. In addition, they provide a single point of control to manage IT infrastructure and applications at any scale.

With hyperconverged infrastructure, siloed servers, storage networks, and storage arrays are replaced with a single scale-out solution, giving enterprises newfound agility and capabilities.



Nutanix Enterprise Cloud Platform delivers the public cloud benefits that customers want with the private cloud control customers need.



**Full Cloud Stack**

Complete IT infrastructure integrates all compute, storage and virtualization resources to run nearly any application.



**One-Click Simplicity**

Consumer-grade management streamlines IT lifecycle management and eliminates the need for specialized IT teams.



**Deploy Application in Minutes**

Allows delivery of infrastructure in record time; no more waiting weeks or months to run business applications or new workloads.



**Automate Application Management**

Automate common IT tasks and give application owners and developers on-demand IT services.



**Lower TCO**

Enables reduced IT costs and quick investment payback.



**Hybrid Cloud**

Combines public and private cloud operations with unified management of IT infrastructure and applications.

**Differentiated Systems with Technology Leadership**

Intel® DCS for HCI, certified for Nutanix Enterprise Cloud Platform is configurable, with the following server configurations based on the 2nd & 3rd Generation Intel® Xeon® Scalable processor family:

- 2U 1-node system based on the Intel® Server Board M50CYP family (3rd Gen Intel® Xeon® Scalable processor)
- 2U 1-node system based on the Intel® Server Board S2600WF family (2nd Gen Intel® Xeon® Scalable processor)
- 2U 4-node system based on the Intel® Compute Module S2600BP family (2nd Gen Intel® Xeon® Scalable processor)

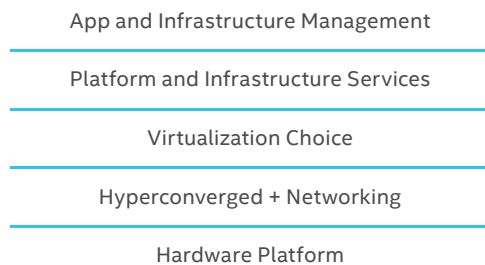
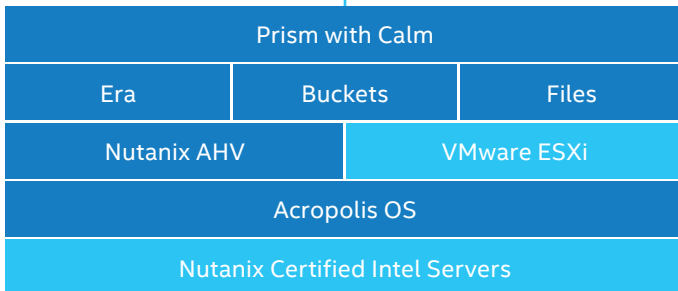
New for 2021: You can choose from a variety of systems based on 3rd Generation Intel® Xeon® Scalable processors. The Intel® Server System M50CYP Family is the perfect example for redefining performance, capacity and TCO for 2U servers—while delivering extraordinary versatility to run a wide array of scaleup and scale-out workloads.

The 2U 1-node Intel® DCS for HCI, certified for Nutanix Enterprise Cloud Platform, based on the Intel Server System M50CYP Family, is architected for up to 24 high performance flash storage devices, with balanced input and output operations. Greater throughput and lower latency allow for faster access to large datasets, which is desirable for enterprise-class workloads in cloud environments while the latest 3rd Gen Intel Xeon Scalable processors deliver 1.46x average performance improvement vs. prior gen<sup>2</sup>.

The advanced thermal design of the 2U 4-node Intel® DCS for HCI, certified for Nutanix Enterprise Cloud Platform allows for high compute density, including options for more powerful CPUs that deliver more performance in a 2U space and at a lower hardware cost compared to four separate 1U or 2U systems. This makes Nutanix Enterprise Cloud Platform on the Intel Compute Module S2600BP an excellent choice for virtualized systems.

All these systems contain the hardware essential to hosting the Nutanix Enterprise Cloud OS. These include a chassis with redundant power, four compute modules or one server board, up to 12 x 3.5" or 24 x 2.5" drive bays, SAS controllers as needed per the number of drive bays, redundant cooling, and advanced server management.

All platforms allow for customization to meet the compute, storage, and networking requirements of specific end users. A Nutanix Channel representative can also help provide accurate infrastructure sizing using the Nutanix Sizer Tool.



Nutanix Certified Intel Servers provide an exceptional foundation for enterprise applications.

## Customize Your Solution Using Intel's Configure-to-Order Tool

Intel® DCS for HCI, certified for Nutanix Enterprise Cloud Platform are available with a range of configurations for a fast, simple, risk-free selection to fit different business use cases. These include enterprise applications, Server Virtualization, Virtualized Desktop Infrastructure (VDI), databases, Remote Office Branch Office (ROBO), and many more.

Intel's Configure-To-Order (CTO) system allows for customization and is designed to take the risk out of component selection by allowing only certified and compatible options. Customers are able to configure a solution that starts with either an Intel® Server System M50CYP, Intel® Server System S2600WF or Intel® Server System S2600BP-based platform and allows a variety of validated choices from the following items to meet their requirements:

- 3rd Gen or 2nd Gen Intel® Xeon® Scalable processors (Gold, Silver, and Platinum)
- DDR4 memory (16GB, 32GB and 64GB DIMM)
- Intel® Optane™ persistent memory (128GB, 256GB and 512GB)
- Storage devices (960GB to 7.68TB SSD or 2TB up to 16TB HDD); includes Intel® Optane™ SSD DC options (800GB to 1.6TB SSD)
- Networking 10GBASE-T and 100/50/2510GbE QSFP28 + RoCE RDMA is also available

Get started with the CTO tool today:  
<https://orderconfigurator.intel.com/>

## Peace of Mind with Support from Industry Leaders

Intel and Nutanix are collaborating to provide integrated support to help ensure a seamless customer experience. Intel® DCS for HCI hardware is backed by world-class technical support and Intel's standard three-year warranty from the date of purchase, with optional five-year warranty plans available for select components. They are also eligible for Advanced Warranty Replacement, allowing a replacement part to be sent before the defective part is returned, reducing downtime and speeding time to resolution. Intel® DCS for HCI, certified for Nutanix Enterprise Cloud Platform are backed by award-winning support, industry-leading services, and global training. Resellers for this joint solution can capitalize on Intel member programs.

## 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.

## Reduce Risk of Counterfeit Parts with Intel® Transparent Supply Chain

Counterfeit electronic parts are a growing security concern across all organizations. These 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. These verification steps, implemented on the factory floor at server manufacturers, enable enterprises to verify the authenticity and firmware version of systems and their components when systems arrive at their site.

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.

## Additional Resources

- For more information on Nutanix Enterprise Cloud Platform, visit: [Nutanix.com/intel](https://www.nutanix.com/intel)
- For more information on Intel® DCS for HCI, certified for Nutanix Enterprise Cloud Platform, visit: [intel.com/Nutanix](https://www.intel.com/Nutanix)
- For more information on Intel Components qualified for Intel® DCS for HCI, certified for Nutanix Enterprise Cloud Platform, visit: [The Hardware Compatibility List \(hosted by Nutanix\)](#)
- For warranty details, visit: [www.intel.com/content/dam/support/us/en/documents/services/dcb-blocks-warranty-brief.pdf](https://www.intel.com/content/dam/support/us/en/documents/services/dcb-blocks-warranty-brief.pdf)



## Intel® Data Center Systems for HCI, certified for Nutanix Enterprise Cloud Platform

Featuring 3rd Gen Intel® Xeon® Scalable Processors

Configurations	3rd Gen Intel® Xeon® Scalable Processor	Memory (per node)	Cache (per node)	Capacity (per node)	LAN (per node)
2U, 1 Node – Intel® Server System M50CYP2URXXX					
2U1N All-NVMe with PMem (Intel® Optane™ + NVMe + PMM) for VDI <sup>1</sup>	Intel® Xeon® Gold 6348 (28c, 2.6G, 235W)	1TB PMM 1TB (8x 128GB) + DRAM 512GB (16x 32GB)	4x P5800X 1.6TB (6.4TB)	20x P4610 6.4TB (128TB)	2x 100/50/25/10GbE QSFP28
2U1N All-NVMe (NVMe only) <sup>1</sup>	Intel® Xeon® Gold 6354 (18c, 3.1G, 205W)	1TB (32x 32GB)	4x P4610 1.6TB (6.4TB)	20x P4610 6.4TB (128TB)	2x 100/50/25/10GbE QSFP28
2U1N NVMe with SATA (NVMe + SATA) <sup>1</sup>	Intel® Xeon® Gold 6354 (18c, 3.1G, 205W)	1TB (32x 32GB)	4x P4610 1.6TB (6.4TB)	20x S4610 3.84TB (76TB)	2x 25/10GbE QSFP28
2U1N All-SATA <sup>1</sup>	Intel® Xeon® Gold 6346 (16c, 3.1G, 205W)	1TB (32x 32GB)	4x S4610 960GB (3.8TB)	20x S4610 3.84TB (76TB)	2x 25/10GbE QSFP28
2U1N Hybrid (SATA + SAS) <sup>2</sup>	Intel® Xeon® Gold 6246 (16c, 3.1G, 205W)	1TB (32x 32GB)	2x S4610 960GB (1.92TB)	10x SAS HDD 14TB (135TB)	2x 25/10GbE QSFP28

1: Third-party software stack and hard drive NOT included. 2: Third-party software stack NOT included. Targeting NIC bandwidth enhancements late 2H'21. Configurations subject to change.



<sup>1</sup> <https://www.idc.com/getdoc.jsp?containerId=US43062517>

<sup>2</sup> See claim [125] at [www.intel.com/3gen-xeon-config](https://www.intel.com/3gen-xeon-config). Results may vary.

For workloads and configurations visit [www.Intel.com/PerformanceIndex](https://www.intel.com/PerformanceIndex). Results may vary. Performance varies by use, configuration and other factors. Learn more at [www.Intel.com/PerformanceIndex](https://www.intel.com/PerformanceIndex). Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available updates. See backup for configuration details. No product or component can be absolutely secure.

Your costs and results may vary.

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

Intel does not control or audit third-party data. You should consult other sources to evaluate accuracy.

© 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.