

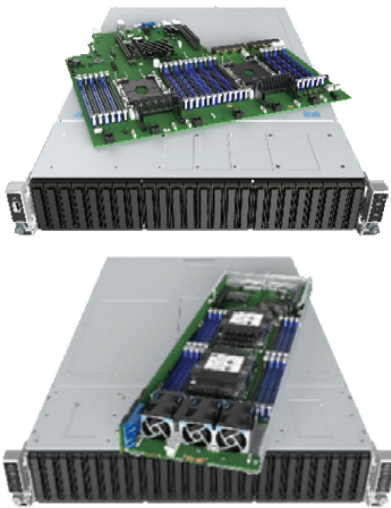
SOLUTION BRIEF

Enterprise Cloud
Data Center Modernization



Intel® Data Center Blocks for Nutanix Enterprise Cloud Platform

THE RIGHT CHOICE FOR VIRTUALIZED SERVERS AND BUSINESS-CRITICAL APPLICATIONS



Hyperconverged Infrastructure 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 Software Defined Storage (SDS). A single hyperconverged infrastructure (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 in 2021, according to research firm IDC¹.

Trusted Intel Hardware Certified by Nutanix

Together, Nutanix and Intel have developed fully validated and certified Intel® Data Center Blocks for the HCI market. 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® Data Center Blocks 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-premise and hybrid clouds.

- **Technology leadership** including Optane™ DC SSD and Optane™ Persistent Memory and NVM Express (NVMe)
- **Broad set of components validated by Intel and certified by Nutanix** allow for configuring systems to meet your customer's needs
- **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

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 Data Center Blocks for Nutanix Enterprise Cloud Platform that is designed to allow IT teams to build and operate solutions that meld private, public, and distribute hybrid/multi-cloud operating environments. In addition, provide a single point of control to manage IT infrastructure and applications at any scale.

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



NUTANIX
Your Enterprise Cloud Platform™

Nutanix Enterprise Cloud 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

Automated common IT tasks 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 Data Center Blocks for Nutanix Enterprise Cloud Platform is configurable, starting with two base server configurations:

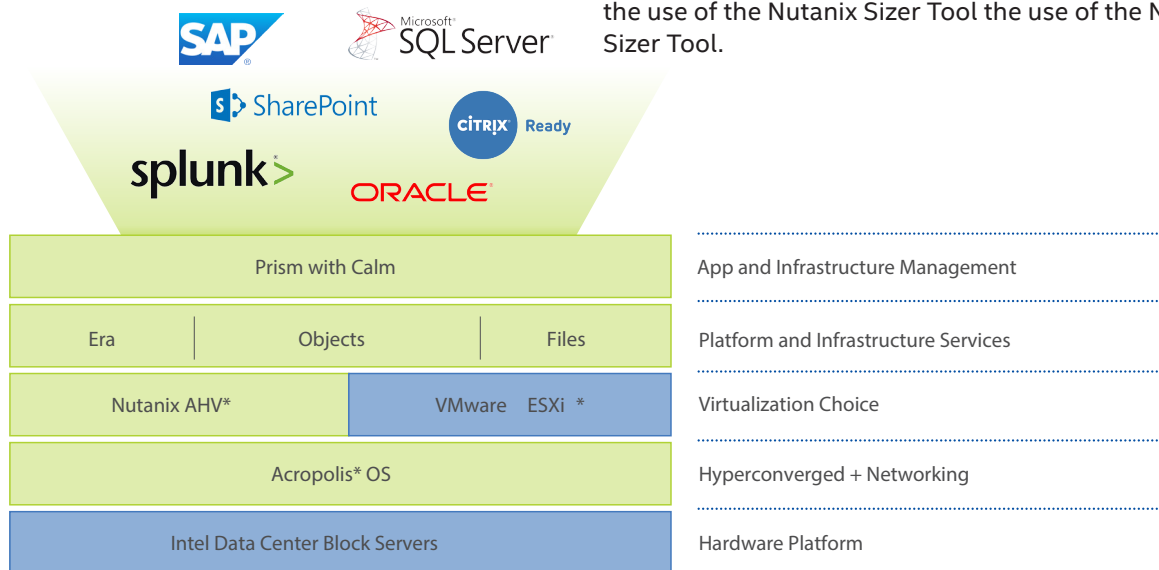
- 2U 1-node system based on the Intel® Server Board S2600WF family
- 2U 4-node system based on the Intel® Compute Module HNS2600BP family

The advanced thermal design of Intel's 2U 4-node Data Center Block 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 an Intel Data Center Block based on the Intel Compute Module HNS2600BP an excellent choice for virtualized systems.

Intel's 2U 1-node Data Center Block, based on the Intel Server Board S2600WF, 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.

Both base systems contain the hardware essential to hosting the Nutanix Enterprise Cloud OS. These fixed features 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.

Both 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 through the use of the Nutanix Sizer Tool the use of the Nutanix Sizer Tool.



Intel Data Center Blocks and Nutanix Enterprise Cloud provide an exceptional foundation for enterprise applications.

Suggested Configurations

SOLUTION	TYPE	INTEL SERVER BOARD (NODE)	2 ND GEN INTEL XEON® SCALABLE PROCESSOR	FORM FACTOR	OPTANE™ PERSISTENT MEMORY	META DATA TIER	STORAGE TIER
Business-Critical Database & Analytics	Good	S2600WF	2 x Silver 4200R	3.5" LFF	-	Intel DC S4510	HDD
	Better	S2600WF	2 x Gold 6200R	2.5" SFF	Workload Dependent	Intel DC P4510	Intel DC S4510
	Best	S2600WF	2 x Platinum 8280	2.5" SFF	Workload Dependent	Intel Optane™ SSD DC P4800X	Intel DC S4510
Virtualized Servers within Private Clouds	Good	S2600BP	2 x Silver 4200R	3.5" LFF	-	Intel DC S4510	HDD
	Better	S2600BP	2 x Gold 5200R	2.5" SFF	-	Intel DC P4510	Intel DC S4510
	Best	S2600BP	2 x Gold 6200R	2.5" SFF	-	Intel Optane™ SSD DC P4800X	Intel DC S4510

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

Nutanix-certified Intel Data Center Blocks 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 a S2600WF or S2600BP base platform and allows a variety of choices from the following items to meet their requirements:

- 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™ DC SSD options (750GB to 8TB SSD)
- Networking 10GBASE-T and 10/25G SFP + RoCE RDMA is also available

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



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

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/retailer or learn more at www.intel.com.

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.

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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 Data Center Blocks 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. Nutanix Enterprise Cloud software and Intel Data Center Blocks are backed by award-winning support, industry-leading services, and global training. Resellers for this joint solution can capitalize on Intel member programs.

Additional Resources

- For more information on Nutanix Enterprise Cloud, visit: Nutanix.com/Intel
- For more information on Intel Data Center Blocks for Nutanix Enterprise Cloud Platform, visit: intel.com/Nutanix

For warranty details, visit https://www.intel.com/content/dam/support/us/en/documents/services/DCB_Warranty_Brief.pdf