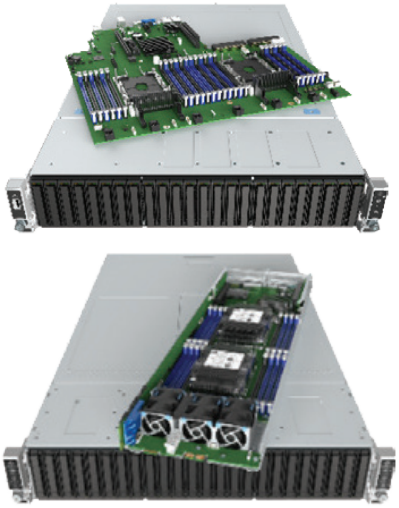
SOLUTION BRIEF

Enterprise Cloud
Data Center Modernization

Intel® Data Center Blocks for Nutanix* Enterprise Cloud

The right choice for virtualized servers and business-critical applications



- **Technology leadership** with platforms designed for high compute density and large flash storage capacity
- **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** which offers private cloud security and affordability with public-cloud like 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

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, storage networks, and servers to software-defined systems (SDS). A single hyperconverged infrastructure (HCI) system enables an agile, scalable data center foundation that delivers more flexibility, easier provisioning, and lower costs. So 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 IDC.[1]

Trusted Intel Hardware Certified by Nutanix*

Together, Nutanix* and Intel have developed fully validated and certified Intel® Data Center Blocks (Intel® DCB) for the HCI market. The result of this collaboration enables you to speed 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 are available as configure-to-order systems that include processors, server boards, chassis, power supply, storage, networking, and memory that have been validated to work together. Value-added Resellers (VARs) and system integrators (SIs) add Nutanix Enterprise Cloud OS software to provide a fast route for building on-premise clouds.

HCI and the Nutanix* Enterprise Cloud Advantage

Your customers are modernizing their data centers, and they need help to transition, deploy, and scale. Intel Data Center Blocks for Nutanix Enterprise Cloud are designed to allow IT teams to build and operate solutions that meld private, public, and distributed cloud operating environments, and provide a single point of control to manage IT infrastructure and applications at any scale.

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

Intel Xeon Silver inside | Intel Xeon Gold inside | Intel Xeon Platinum inside

NUTANIX™ Your Enterprise Cloud Platform

Differentiated Systems with Technology Leadership

Intel® DCB for Nutanix Enterprise Cloud are configurable, starting with two base server configurations:

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

The advanced thermal design of Intel® DCB with 2U 4-node 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® DCB with 2U 1-node, 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.

Both base systems encompass 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 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 to provide an accurate infrastructure sizing through the use of the Nutanix Sizer Tool.

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.

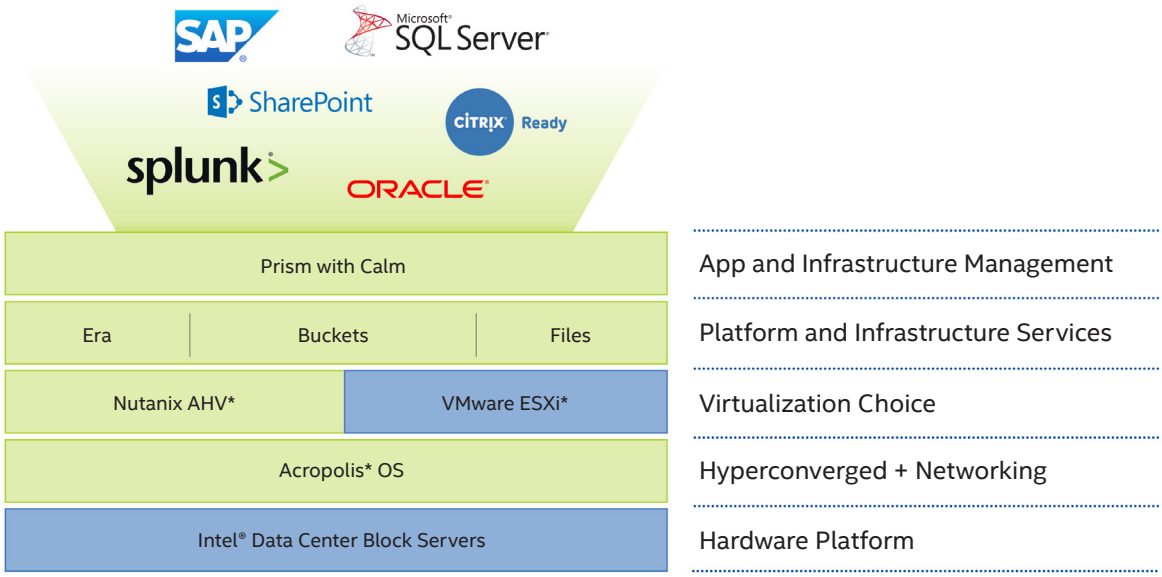
One-Click Simplicity
Consumer-grade management streamlines IT lifecycle management and eliminates the need for specialized IT teams.

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.



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

Suggested Configurations

SOLUTION	TYPE	INTEL® SERVER BOARD (NODE)	INTEL® XEON® SCALABLE PROCESSOR	INTEL® SSD DC P4610 960GB	INTEL® SSD DC P4610 1.92GB	INTEL® SSD D3-S4510 3.84TB	Intel® SSD D3-S4610 3.2TB†	SEAGATE 2TB HDD ST2000NX0433
Visualized Servers within Private Clouds	Good	S2600BP	2 x Silver 4116	2	-	-	-	4
	Better	S2600BP	2 x Gold 5120	-	6	-	-	-
	Best	S2600BP	2 x Gold 6152	-	-	4	2	-
Business-Critical Database & Analytics	Good	S2600WF	2 x Silver 4116	4	-	-	-	8
	Better	S2600WF	2 x Gold 6130	-	16	-	-	-
	Best	S2600WF	2 x Platinum 8164	-	-	20	2	-

†Expected certification completion and CTO availability for the Intel® DC P4610 3.2TB SSD will be February 2019. Subject to change without notice.

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

Nutanix-certified Intel Data Center Blocks are available with a range of configurations for fast, simple, risk-free selection to fit different business use cases—including enterprise applications, server virtualization, Virtualized Desktop Infrastructure (VDI), databases, remote office branch office (ROBO), and more.

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

- Intel® Xeon® Scalable Processor (Gold, Silver, and Platinum)
- DDR4 Memory (16GB, 32GB and 64GB DIMM)
- Meta Data Cache Device (960GB to 3.84TB SSD)
- Storage Devices (960GB to 3.84TB SSD)
- Networking 10GBASE-T and SFP+ available at launch. 25GbE with RocE RDMA will be available February, 2019. Subject to change without notice.

Get started with the CTO tool at www.intel.com/content/www/us/en/products/docs/servers/data-center-blocks/configure-to-order.html

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 is backed by award-winning support, industry-leading services, and global training. Resellers for this joint solution can capitalize on Intel member programs, with the Intel components helping to earn revenue credits and program benefits (points).

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, visit: intel.com/Nutanix
- For warranty details, visit www.intel.com/content/dam/support/us/en/documents/services/DCB_Warranty_Brief_Feb_2018.pdf

[1] "Worldwide Software-Defined Storage Forecast, 2017–2021," IDC Market Forecast, September 2017, 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 or 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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