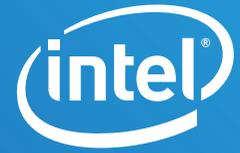


SOLUTION BRIEF

Intel® Data Center Blocks for Cloud
VMware* (vSAN ReadyNode)



Simplifying Access to Software-Defined Storage (SDS) Solutions and Private Cloud

Intel® Data Center Blocks for Cloud—VMware* (vSAN ReadyNode)



vmware®



Intel® Data Center Blocks for Cloud

- **Certified Data Center Blocks** save time and money¹, freeing up resources to focus on value-add and competitive differentiation
- **Simplify SDI Market Access** with systems designed for Software-Defined Storage solutions
- **Unbranded Systems** allow resellers to incorporate products into their branded portfolios
- **Intel Quality & Reliability** with world-class integration, validation, certification and support
- **Standard Intel 3-year Warranty** with 5-year warranty options available to ensure customers' satisfaction

Accelerating the Path to Private Cloud with SDS and VMware* (vSAN ReadyNode) from Intel® Data Center Blocks

Research shows that 80% of workloads will run on a cloud architecture by 2024². To successfully navigate the transition to private cloud, customers need a software-defined infrastructure (SDI) that is automated, resilient, and programmatically extensible. Modernizing storage resources is an essential element to SDI, driving up customer demand for SDS solutions.

To increase reseller access to the SDI market and enable them to help customers modernize storage resources, Intel is delivering a new server product optimized for SDS. The Intel® Server Products for Cloud – vSAN Ready Nodes are fully-validated, pre-configured server systems that include VMware certifications for vSAN. With these vSAN Ready Nodes from Intel, resellers have access to the software-defined storage market, making it easier to deliver SDS solutions to customers.

Cost-Effective, Scalable Storage with Intel and VMware vSAN

Traditional storage is fixed, siloed and hard to scale, and addressing these challenges remains one of the key barriers customers face as they move to a cloud-based infrastructure. VMware* vSAN provides one path to SDS with the simplified storage provisioning, granular scalability, advanced management, and outstanding performance required for enterprise-class SDS solutions. To help accelerate storage modernization, Intel is providing vSAN certifications as part of its vSAN ReadyNode to give resellers better access to the SDS market and enable them to deliver innovative storage solutions to their customers.

Reduce Complexity, Improve ROI & Speed Time-to-Market

Designing, testing and validating SDS solutions is a costly and resource-intensive process. By starting with a higher level of integration and certification, partners can reduce costs and speed time-to-market. This approach gives partners more flexibility and choice about where to invest R&D spend to ensure they remain competitive and drive differentiation in the market. There is also increased acquisition value to the partner, since they source a validated bundle of products with a single order code, rather than acquiring each component individually.

Integrated System with Intel Quality, Reliability and Value

Built for Breakthrough Performance

vSAN ReadyNode from Intel is powered by the latest Intel technology, and includes Intel® Server Boards, Chassis, Intel® Xeon® processors, Intel® Solid State Drives (SSDs), and third-party memory in configurations optimized and pre-certified for VMware vSAN.

Available in both All-Flash and Hybrid configurations, these server systems are optimized for high-performance computing, hyper-converged infrastructure, and

Intel® Data Center Blocks for Cloud—VMware* vSAN ReadyNode

Intel® Server Products for Cloud—vSAN ReadyNode are available in multiple All-Flash (AF) or Hybrid (HY) system configurations, each designed for specific workloads and use cases, enabling partners to address a wide array of customer needs. By taking advantage of Intel's latest technologies and world-class engineering and validation expertise, partners can build innovative solutions faster with a lower total cost-of-ownership.

Customer Use Cases

- Business-Critical Applications
- Virtual Desktop Infrastructure
- Disaster Recovery
- Test and Dev Scenarios
- Enterprise Production Workloads

outstanding storage performance. The Intel® Xeon® Scalable processor accelerates virtualized storage with features such as Intel® AVX-512 and Intel® Virtualization Technology. Intel SSDs provide high throughput and low latency, which maximizes power while reducing cost and space requirements. All-Flash configurations (AF-8 and AF-6) deploy Intel's high-endurance NVMe SSDs for the caching tier, delivering excellent performance, high IOPS and low latency.

Smart Boards Ensure System Stability and Increased Uptime

Intel® Server Boards have more than 100 sensors built in that monitor all critical functions and use management capabilities to automatically flag problems before they impact business operations. Event logs and light-guided diagnostics also assist in rapid identification and issue remediation.

Enhanced Benefits

To further help partners succeed, Intel® Technology Providers will have the opportunity to qualify for the Intel® Technology Provider Cloud Specialist designation. Cloud Specialists have access to exclusive resources specifically designed to help in the planning, implementation and delivery of cloud-optimized solutions with strong performance and rapid efficiency. Specialist benefits extend to the vSAN ReadyNode from Intel, and will include special access to Intel experts and engineering resources to assist Cloud Specialists as they identify exact customer requirements. Other benefits include access to valuable solution guides, technical support, and other tools to help build customer value.

Intel Warranty Delivers Value and Confidence

Intel Data Center Blocks for Cloud are backed by Intel's standard 3-year warranty from the date of purchase, with optional 5-year warranty plans available for select components.

Intel Data Center Blocks are also eligible for Advanced Warranty Replacement whereby Intel will send a replacement part before the defective part is returned, reducing downtime and speeding time to resolution.

Warranty details are available [here](#).

Engage with Intel Today

Intel continuously delivers leading-edge technologies to help resellers innovate and differentiate themselves in the market. This is true with Intel Server Products for Cloud—vSAN ReadyNode, designed to help partners realize an easier path to reliable SDI solutions.

Contact your Intel sales representative or Intel authorized distributor for any inquiries.

Additional Resources:

For product specifications visit: intel.com/vmware-cloud-blocks.html

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

For more information on Intel® Data Center Blocks visit: intel.com/dcb

INTEL® DATA CENTER BLOCKS FOR CLOUD - VMWARE*

Now available on Intel® Xeon® Scalable platform



All-Flash (AF) and Hybrid (HY) system SKUs based on VMware* vSAN defined profiles

2U, Single Node		Intel SKU	vSAN Profile	CPU	Memory (2666MHz)	Cache	Capacity	LAN
 Intel® Server System R2208WF0ZS		VRN2208WFAF83 ⁴	AF-8	2x Intel® Xeon® Gold 6152	768 GB	4x P4800 375 GB (1.5 TB)	12x P4500 2 TB (24 TB)	4x 10 GbE SFP+ (Intel/RDMA)
		VRN2208WFAF82 ⁴	AF-8	2x Intel® Xeon® Gold 5120	384 GB	2x P4800 375 GB (750 GB)	6x P4500 2 TB (12TB)	4x 10 GbE SFP+ (Intel/RDMA)
		VRN2208WFAF81 ⁴	AF-8	2x Intel® Xeon® Gold 5118	384 GB	2x P4800 375 GB (750 GB)	6x S4500 1.92 TB (11.5 TB)	2x 10 GbE SFP+ (Intel/RDMA)
		VRN2208WFHY6 ^{3,5}	HY-6	2x Intel® Xeon® Gold 5115	256 GB	2x S4600 960 GB (1.9 TB)	6x 2TB HDD (12 TB)	2x 10 GbE SFP+ (Intel/RDMA)
2U, 4 Nodes		Intel SKU	vSAN Profile	CPU	Memory (2666MHz)	Cache	Raw Capacity	LAN
 Intel® Server Board S2600BPS with Intel® Server Chassis H2224XXLR3		Per Node						
		VRN2224BPAF6 ⁴	AF-6	2x Intel® Xeon® Gold 5118	256 GB	1x P4800 375 GB (375 GB)	5x S4500 1.92 TB (9.6 TB)	2x 10 GbE SFP+ (Intel/RDMA)
		VRN2224BPHY6 ^{3,5}	HY-6	2x Intel® Xeon® Gold 5115	256 GB	2x S4600 960 GB (1.9 TB)	4x 2 TB HDD (8 TB)	2x 10 GbE SFP+ (Intel)

1. 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.
2. Intel & Bain Analysis 2016.
3. 3rd party SW stack and HDD NOT included.
4. 3rd party SW Stack NOT included.
5. Pending vSAN Ready Node system certification. Will launch upon certification completion.



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 intel.com. 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. Intel, the Intel logo, and Xeon are trademarks of Intel Corporation in the U.S. and/or other countries. *Other names and brands may be claimed as the property of others. © 2018 Intel Corporation.