



# WiRack19 Server

## Wiwynn SV302G3 Series

High density 1U2Node server with versatile system configurations for compute intensive workloads.

### Optimized System Architecture for Compute Intensive Workloads

Wiwynn SV302G3 system is a 1U 2 nodes compute server with dual socket within each node. It features Intel® Xeon® Scalable Processors and the 2<sup>nd</sup> Generation Intel® Xeon® Scalable Processors. The latter provide pervasive performance enhancement including higher per-core performance and CPU frequency.

### Enhanced Memory and Optimized Thermal Solution

For memory capacity, it is designed with 16 DIMM slots per node; DDR4 up to 2933MT/s and 64Gb-based DDR4 DIMMs, system memory capacity up to 1TB. As a high density 1U2Node chassis, SV302G3 offers an optimized thermal solution for balancing cooling and power efficiency.

### Painless Upgrade for Machine Learning

The new feature of Intel® Deep Learning Boost (VNNI) empowers Wiwynn SV302G3 to deliver significant and more efficient AI inference acceleration without hardware changes. With support of Intel® Optane™ DC persistent memory (AEP), data centers can utilize up to 512GB per DIMM for in-memory database, in-memory analytics or super-fast storage applications with affordable cost.

[www.wiwynn.com](http://www.wiwynn.com)



### Versatile System Configurations with Universal Enclosure

Wiwynn SV302G3 offers three configurations for different workloads, which are compute intensive, I/O intensive and compute-storage balanced. System operators may agilely configure different nodes of the combination of processors, NVMe SSDs, PCIe expansions in the same enclosure depending on different applications, such as real-time analytics, and even mission-critical tasks.

### Better TCO from Modularized System and Common Parts

Wiwynn incorporates highly modular design with universal enclosure to realize “building block” concept in SV302G3. The modules include server node, storage node, compute accelerator node, power supply unit (PSU) and fan modules, provide high agility for logistic management to cloud service providers. SV302G3 satisfies the ever-increasing efficiency, density, and low-TCO demands for data centers of different scales.

Wiwynn is a fast-growing cloud infrastructure provider that develops high-density computing and storage products, plus rack solutions for leading data centers.



v1.0

## Node Specification

Model : Wiwynn SV302G3 Series

Model Name	SV302G3-C	SV302G3-I	SV302G3-S
			

### Form Factor, Processor, Memory and Chipset

Form Factor	1U, Half Width	1U, Full Width
Processor	Next Generation Intel® Xeon® Scalable Processors	
Processor Sockets	Two	
Chipsets	Intel® C621 series	
Security	TPM 2.0	
System Bus	Intel® UltraPath Interconnect; 10.4GT/s	
Memory	16 DIMM slots; DDR4 up to 2933 MT/s RDIMM/LRDIMM; Up to 1TB	

### Storage and I/O

Front I/O	<ul style="list-style-type: none"> <li>• One Debug Port (USB 3.0 Type A CONN)</li> <li>• One USB 3.0 Type A CONN</li> <li>• One GbE RJ45 Port</li> <li>• One OCP NIC Port</li> <li>• Power/Reset button</li> </ul>		
Storage	<ul style="list-style-type: none"> <li>• Four 2.5" U.2 NVMe SSD</li> <li>• One onboard 2280/21100 M.2 SSD Module slot</li> </ul>	<ul style="list-style-type: none"> <li>• Two 2.5" U.2 NVMe SSD</li> <li>• One onboard 2280/21100 M.2 SSD Module slot</li> </ul>	<ul style="list-style-type: none"> <li>• Eight 2.5" U.2 NVMe SSD</li> <li>• One onboard 2280/21100 M.2 SSD Module slot</li> </ul>
Expansion Slots	<ul style="list-style-type: none"> <li>• One OCP NIC 2.0 card (PCIe 3.0 x16)</li> </ul>	<ul style="list-style-type: none"> <li>• One PCIe x16 FHHL slot</li> <li>• One OCP NIC 2.0 card (PCIe 3.0 x16)</li> </ul>	<ul style="list-style-type: none"> <li>• One PCIe x16 FHHL slot</li> <li>• One OCP NIC 2.0 card (PCIe 3.0 x16)</li> </ul>
Remote Management	IPMI v2.0 Compliant, iKVM, Wiwynn Cluster Manager		

### Physical Specifications

Dimensions (mm)	224 (W) x 790 (D) x 43.5 (H)	448 (W) * 790 (D) * 43.5 (H)
Weight	19.5kg	39kg

### OS

Support List	RedHat Enterprise Linux 7.4 Ubuntu 18.04
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## Chassis Specification

PSU	2 x 800W/1300W (1+1), hot-swappable
Fan	6 dual-rotor hot-plug fans for 2 zones
Dimensions (mm)	448 (W) * 790 (D) * 43.5 (H)



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