

WiRack21 Server

Wiwynn SV7220G3 Series

Performance optimized
2U 3Node OCP server for
computing-intensive
applications

Performance and Scalability Enhancement

Wiwynn SV7220G3 Series features Intel® Xeon® Scalable Processors and the 2nd Generation Intel® Xeon® Scalable Processors. The latter provide pervasive performance enhancement including higher per-core performance and CPU frequency.

Enhanced Memory Performance

Compared with prior-gen processors, 2nd Generation Intel® Xeon® Scalable Processors increase memory speed and capacity, supporting up to 2933MHz memory speed and 16Gb-based DDR4 DIMMs. Wiwynn SV7220G3 Series is designed with 12 DIMM slots, with 16Gb-based DDR4 DIMMs support, SV7220G3 gets double system memory capacity up to 3TB.

Painless Upgrade for Machine Learning

The new feature of Intel® Deep Learning Boost (VNNI) empowers Wiwynn SV7220G3 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



Three Wiwynn SV7220G3 servers in a 2OU (Open Rack) space

Designed for Optimized Energy Utilization with Computing Power

Inherit the vanity free concept of OCP, this new generation of 2U3Node computing server realized the commitment of OCP to minimize infrastructure power and cost by removing unnecessary components. Hence, the SV7220G3 gets significant 28~40% higher performance per watts than traditional design servers.

Various SKUs for Computing-intensive Applications

The high density 2U3Node architecture is approved by OCP having the optimized power efficiency is widely deployed in hyper-scale datacenters for computing-intensive applications. Wiwynn SV7220G3-S, the latest product based on this architecture, is your best choice. Another advanced model, SV7220G3-V series with four/two 2.5" drive trays offers enhanced I/O performance.

SV7220G3-V



SV7220G3-V+



SV7220G3-S



Form Factor, Processor, Memory and Chipset

Form Factor	2U, Half width
Processor	Intel® Xeon® Scalable Processors / Next Generation Intel® Xeon® Scalable Processors
Processor Sockets	Two per node (3 server nodes in a 2 OU shelf)
Chipsets	Intel® C621 series • TPM 2.0
System Bus	Intel® UltraPath Interconnect; 10.4GT/s
Memory	Up to 3TB; DDR4 up to 2933MT/s; 12 DIMM slots

Storage and I/O

Storage	• Four SAS/ SATA HDD	• Two SAS/ SATA HDD	• One 3.5" SAS/ SATA HDD
(hot-plug drive bay per node)	• One M.2 SSD Module (Option on carrier card) • RAID 0/1/10		
Expansion Slots	Two PCIe x16 HHHL slots,	One PCIe16 HHHL and two PCIe8 HHHL slots	Two PCIe x16 FHHL slots
	One OCP Mezzanine card (PCI-e x16) for: • Single/Dual 10GbE DA/SFP+ ports (option) • Single/Dual 25GbE SFP28 ports (option) • Single/Dual 40GbE QSFP ports (option)		
BMC Chipset	ASPEED AST2500 with VGA		
Remote Management	IPMI v2.0 Compliant, iKVM, Wiyynn Cluster Manager		
LAN	One GbE Dedicated BMC port		
Powers	108W (Idle); 330W (Max)		

Power Supply, Physical and Packaging Specifications

Power Supply	Centralized OCP Power Shelf
Form Factor and Dimensions	2OU (Open Rack); 174 (W) x 880 (D) x 89 (H) (mm)
Weight	6.9 kg ~ 7.3 kg

OS

Support List	RedHat Enterprise Linux 7.4 Ubuntu 18.0
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Wiyynn is a fast-growing cloud infrastructure provider that develops high-density computing and storage products, plus rack solutions for leading data centers.



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