



WiRack21 Server

Wiwynn SV7100G4

Highly Modularized
Multi-node Platform designed
for Easy Serviceability

OCP Multi-Node Server with High Scalability

SV7100G4 is based on the specification of OCP Yosemite V3 that is built for Open Rack V2 architecture. It is a highly modularized system where you can fit server boards, expansion boards, baseboard, power modules and cooling fans into a 40U cubby chassis. The cubby can carry 3 sleds with up to 4 blades in each sled, totaling to 12 blades, making it a highly scalable system.

Power Efficiency and Inference Capability for Specific Workloads

SV7100G4 utilizes 3rd Gen Intel Xeon Scalable processors (code name Cooper Lake) that respectively supports Platinum SKU with low power consumption and high core count of 88 Wattage and 26 cores. The combination is power-efficient for workload of running web services with simultaneous traffic demands and, on top of that, it can do AI inference/ML works with enhanced Intel® Deep Learning Boost with bfloat16 and AVX-512.

www.wiwynn.com



High Density and Cost-Efficient Compute Rack

SV7100G4 is a multi-node server platform that can host four 1U blades in a sled that fits into the OCP cubby chassis. If you intend to fill up the Open Rack with 10U blades, a 40U system can carry 12 blades, the entire rack can accommodate 8 systems, and therefore up to 96 servers in a rack, which makes it an ideal high-density, 2,496-core computing rack for Internet access services of hyperscale datacenters.

Advanced Front-Access Blade Design for Easy Serviceability

SV7100G4's sleds and blades are front-access designed for easy accessibility and maintainability. All blades in a sled share one multi-host OCP NIC 3.0, eliminating 3 times network cabling for operators to easily maintain the system. The horizontal sled design can also minimize maintenance time when compared to traditional blade servers. In addition, the dedicated fan zone deployment can achieve system availability.

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

Blade Specification

Model : Wiwynn SV7100G4

Model Name

SV7100G4-C



Form Factor, Processor, Memory and Chipset

Form Factor	10U, one third width of OCP vCubby chassis
Processor	Intel® 3rd Generation Intel® Xeon® Scalable Processors
Processor Sockets	One per blade (4 server blades in a 10U sled)
Chipsets	Intel® C621 series
System Bus	Intel® UltraPath Interconnect; 10.4GT/s
Memory	Up to 1.92TB, DDR4 up to 2666-3200MT/s, 6 RDIMM slots per blade

Storage and I/O

Storage	<ul style="list-style-type: none"> • One M.2 solid-state drives in 2280 or 22110 form factors
Expansion Slots	<ul style="list-style-type: none"> • One PCIe16 and one PCIe8 slots (Reserved)
Front I/O	<ul style="list-style-type: none"> • Power button x 1 • Status LEDs x 2
LAN	<ul style="list-style-type: none"> • Multi-host 100GbE OCP 3.0 NIC card (shared by 4 nodes)
BMC Chipset	<ul style="list-style-type: none"> • ASPEED AST2520
Remote Management	<ul style="list-style-type: none"> • NCSI port via multi-host OCP 3.0 NIC • OpenBMC based SSH remote management

Physical Specifications

Power Consumption	130W ~ 165W (Max)
Dimensions (mm)	185 (W) x 781 (D) x 173 (H)
Weight	19.5kg

Chassis Specification

PSU	Centralized 12.5V DC bus bar
Fan	Four 8030 fan modules (Per Sled), with one fan failure redundancy
Dimensions (mm)	537 (W) * 801 (D) * 191 (H)



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