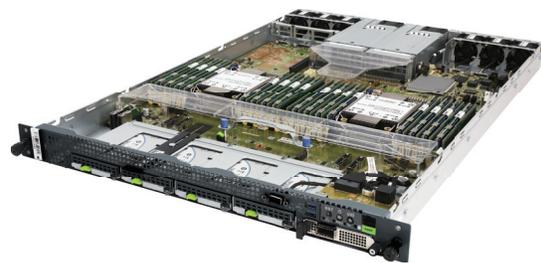




WiRack19 Server

Wiwynn SV310G4 Series

The Modern Cloud-Native Server with Pervasive Performance



Vanity-free Design Enabling Power Efficiency

Wiwynn SV310G4 is designed with a very explicit purpose. The design is very simple and with only necessary specifications to reduce the heats as possible as saving the cooling cost. With its vanity-free design, the air-flow volume becomes relatively considerable low, hence power can be consumed mainly by major components like CPU and Memory, which makes the server more power efficient.

On-rack Serviceability for Time Saving in Modern Data Center

When it comes to running hundreds of racks in the data center, on-rack serviceability becomes very important. Normally, system down-time is also very critical for cloud service. The chassis and motherboard inside SV310G4 are designed to be mountable to the standard rack with sliding rails, so the system can be easily maintained on the rack from the cool aisle with its front IO and storage accessible design, which saves tons of time with operation cost.

Cost-Effective Server Architecture for Web Services

Most cloud service providers cannot allow downtime while running pervasively on hundreds of racks. It is important to optimize their system architecture adopting more cost-effectiveness hardware for specific workloads. SV310G4 is designed with main specification tailed-made for web services, so there would be no waste on unnecessary design.

New Intel Xeon Scalable Processors with Built-in AI Acceleration

Wiwynn SV310G4 supports two Intel 3rd Gen Intel® Xeon® Scalable Processors (codename Ice Lake) that, with 80 cores and 32 DDR4 DIMMs; and up to 16 x DC Persistent memory modules (Intel Barlow Pass) provides 40% performance improvement. With built-in Intel Deep Learning Boost, SV310G4 is ideal for complex AI workloads. SV310G4 also supports Intel Software Guard Extension (SGX), which helps secure data and application code, and Intel Speed Select, which helps optimize specific workload such as NFVI.

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

SV310G4



Model : Wiwynn SV310G4 Series

Processor, Memory and Chipset

Processor	3rd Generation Intel® Xeon® Scalable Processors, TDP 205W (typical 150W)
Memory	32 DIMM slots; DDR4 up to 3200 MT/s; up to 64GB per DIMM; support up to 16 x DC Persistent memory module (Intel Barlow Pass)
Chipsets	Intel® C621A
Security	TPM 2.0
System Bus	Intel® UltraPath Interconnect; 10.4GT/s; 9.6GT/s
Processor Sockets	Two

Storage and I/O

Storage	One onboard 22110 M.2 SSD Module slot Four U.2 (15/7mm) drive bays
Expansion Slots	Up to two PCI-E Gen4 slots: <ul style="list-style-type: none"> • One PCIe Gen4 x16 FHHL slots (no I/O port) • One onboard OCP 3.0 NIC x16 (front)
I/O Ports	<ul style="list-style-type: none"> • VGA port (D-sub) • RJ45 port • Two USB 3.0 ports • Power Button (w/LED) • Reset Button (w/LED) • UID Button (w/LED) • System Alert • SSD, BMC Heartbeat & PSU status LED
Management LAN	One GbE Dedicated BMC Port

Power Supply, Physical and Packaging Specifications

Fan	Six Redundant 4028 fans, fixed design
Power Supply	2 x 800W CRPS (1+1 Redundant)
Form Factor and Dimensions	1U Rack; 43.5 (H) * 436 (W) * 670 (D) (mm)
Weight	14.47kg



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