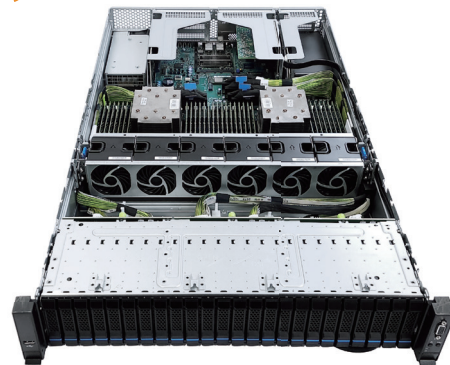




# WiRack19 Server

## Wiwynn SV328R 64-bit ARM Server

All new Ampere® Altra® ARM-based server with 160 cores delivers unprecedented performance, high scalability, and power efficiency.



### Performance and Memory Enhancement

Wiwynn® SV328R features two Ampere® Altra® 64-Bit Arm-based Processors which offers up to 160 cores at up to 3.0 GHz speed with sustained turbo performance. Each core is single threaded by design with its own 64 KB L1 I-cache, 64 KB L1 D-cache, and a huge 1 MB L2 D-cache.

Supporting 32 DDR4-3200 DIMM sockets, the Ampere® Altra® processor offers high bandwidth and memory capacity.

### Rich PCIe and Storage Options

With 128 lanes of PCIe Gen4 per socket and support for 192 PCIe Gen4 lanes in 2P configuration, SV328R is able to support rich PCIe expansion of six PCIe 4.0 FHHL and two PCIe 4.0 HHHH in total, providing maximum flexibility to interface with networking cards of 200 GbE, and storage/NVMe devices, making it well suited for high I/O and high-speed storage applications. In term of storage options, SV328R supports up to 24 U.2 hot-plug NVMe SSDs or cost-effective SATA SSDs alternatively, which provides flexibility for PCIe and storage configurations.

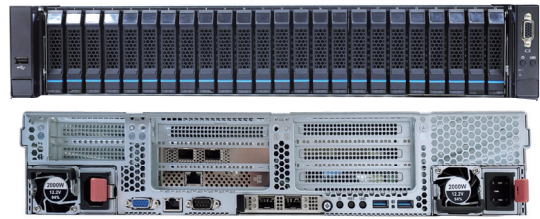
### Provides More Cores Per Rack with High Power Efficiency

SV328R is equipped with Ampere® Altra® 64-Bit Arm-based Processors, which sets up a new levels of power efficiency with scalability. The power optimized design enables the SV328R to pack in more cores – all on a single die within a processor – enabling datacenter more cores per rack.

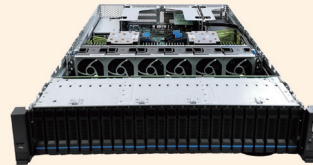
### Manageability and Serviceability with Front-access Drives

Easy to replace and access, the SV328R is designed with 24 front-access hot-pluggable drives, VGA ports plus two redundant power supply units on the rear. With RJ-45 (1GbE LAN), SV328R supports iKVM over IP which allows administrator to deploy, service and manage system remotely.

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



SV328R



Model : Wiwynn SV328R ARM Server

**Processor, Memory and Chipset**

Processor	Ampere® Altra® 64-Bit Arm-based Processors, 80 CPU cores up to 3.0 GHz with Sustained Turbo
Memory	32 DIMM slots (16 DIMM per processor); DDR4-3200, 8 channels per processor, RDIMM
Processor Sockets	Two

**Storage and I/O**

Storage	24 x 2.5" U.2 hot-plug NVMe drives; or 24 x 2.5" U.2 hot-plug SATA drives (supported with HBA and SATA backplane) Two M.2 NVMe SSD module slots
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Expansion Slots	Six PCI-E 4.0 x8 slots Two PCI-E 4.0 x16 slots (1 x Rear access PCIe x16 FHHL 5 x Rear access PCIe x8 FHHL 1 x Rear access PCIe x16 HHHL 1 x Rear access PCIe x8 HHHL) One PCI-E 4.0 x16 OCP NIC 3.0 (small form factor)
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IO Ports	Front: 1 x USB2.0, 1 x DB-15 VGA port, PWR button, UID Button, Reset Button. Rear: 2 x USB3.0, 1 x DB-15 VGA port, 1 x COM DB9, NMI, PWR button, UID button, Reset Button
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Management LAN	One GbE Dedicated BMC Port
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**Power Supply, Physical and Packaging Specifications**

Power Supply	2 x CRPS form factor, redundant
Form Factor and Dimensions	2U Rack; 87 (H) * 438 (W) * 770.2 (D) (mm)
FAN	Six 6056 fans
Weight	14.47kg



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