

Overview

Wiwynn® offers two different rack infrastructures, WiRack21 and WiRack19, with related building blocks including general servers, storages, computing servers and switches. Choose from the different combination and customization that best suit your applications for workload optimization.



Intel® Xeon® Processor Scalable Family represents a major architectural leap forward in processor platform advancements. This new architecture delivers impressive performance gains of up to 3.9x higher scalability for virtualized workloads as compared with the 4-year-old systems widely used in the market today, allowing customers to run more and a more diverse variety of workloads on each system.

WiRack 21

Wiwynn® WiRack21, inspired by the Open Compute Project (OCP) standard, is ideally suited for cloud service providers or large data centers demanding high-levels of operation and power efficiency.

The centralized power system and vanity-free design allow easy cold aisle operation and tool-less replacement of front serviceable parts.

Open Rack

Wiwynn® WiRack21 is based on OpenRack v2 design for simplified power cabling and integrated centralized power shelf with a remote management controller (RMC) for easy maintenance and manageability.



	SR1000G2	SR1200G2
Rack SKU	43 OU	
Dimensions	1066.8 (D) x 600 (W) x 2220 (H) mm	
Weight	242Kg	272Kg
Power Shelf	1	2
Power Supply	6.6KW (2+1 Redundant)	13.2KW (2 power shelves)
BBU (Option)	3.6KW x 3	3.6KW x 6

	SC2000
Chassis SKU	12U
Dimensions	1160 (D) x 480 (W) x 534 (H) mm
Controller	1 CM
Weight	98Kg
Power Supply	9.6KW (5+1)



WiRack 19

Wiwynn® WiRack19 is a standardized frame perfect for mounting generic server, storage and networking products. Additionally, WiRack19 fits perfectly with 12U Open Cloud chassis, fully enjoying Open CloudServer benefits for operational efficiency.

Open Cloud Chassis

The 12U chassis is based on Open CloudServer v2.0 specification, centralizes highly efficient power supplies and utilizes large fans to reach operational efficiency. Designed specifically for office and distributed enterprise environments.

Multi-node Computing Server

Flexible combination of up to four servers in 2 OU space for computing-intensive application with or without enhanced I/O performance.



	SV7220G3-S	SV7220G3-V	SV324G3
Processor	Intel® Xeon® Processor Scalable Family		
Node/Sockets	2U3N, 6 Sockets		2U4N, 4 Sockets
Per Node			
Memory	12 DIMM slots; Up to 768GB; DDR4 up to 2666 MT/s		
Storage	3.5" Hot-plug Drive	1	-
	2.5" Hot-plug Drive	-	4
	M.2 SSD Module	1	1
LOM	One 1GbE LAN port		
Expansion Slot	PCI-E x16	2	2
	PCI-E x8	-	-
	OCP Mezzanine x16	1	-
Remote Management	IPMI v2.0 Compliant, iKVM, Wiwynn Cluster Manager		
Power Supply	Centralized OCP Power Shelf		2 x 1600W (1+1)
Form Factor and Dimensions (mm)	2U; 90 (H) x 537 (W) x 803 (D)		2U; 87 (H) x 448 (W) x 850 (D)

Storage Server

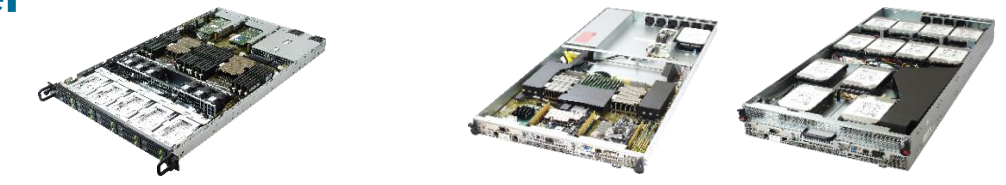
Cost-effective micro server for large capacity storage applications. High-density storage system designed with redundant controllers provides full redundant data paths to each HDD.



	SV7110 (Storage Server)	SV7000G2 (Storage Server)	ST7000G2 (4U72B JBOD)	ST7110G2-30A (2U30B JBOD)
Processor	Intel Atom® C2700 processor	Intel® Xeon® Broadwell-DE		
Chassis SKU (server card)	1	1	2	
Memory	4 SODIMM slots; Up to 32GB; DDR3 up to 1600 MT/s	4 (8) SODIMM slots; Up to 32GB; DDR3 up to 2666 MT/s		
Controller Module	SAS12G Expander			
Storage	3.5" Hot-plug	30	72	30
	Ext mini-SAS HD	1	2	-
	I/O Port	Single 10GbE SFP+ port	Single 25GbE SFP28 port	2
Remote Management	IPMI v2.0 Compliant, iKVM, Wiwynn Cluster Manager			SES; SMP
Power Supply	Centralized OCP Power Shelf			
Form Factor and Dimensions (mm)	2U; 93.5 (H) x 536 (W) x 878 (D)	4U; 175 (H) x 448 (W) x 900 (D)		2U; 93.5 (H) x 536 (W) x 795 (D)

Multi-purpose Server

Best suited for multi-purpose applications with large storage. Optimized cost for high computing performance and storage capacity.



	SV300G3-L	SV300G3	SV5100G3	SV5200G3
Processor	Intel® Xeon® Processor Scalable Family		Intel® Xeon® Processor Scalable Family	
Sockets	2 Sockets		2 Sockets	
Memory	12 DIMM slots;	24 DIMM slots	24 DIMM slots; Up to 1536GB; DDR4 up to 2666 MT/s	
Storage	3.5" Hot-plug	-	-	4
	2.5" Hot-plug	2	10	-
	M.2 SSD Module	1 (option on carrier card)		8 (4 on M.2 PCIe card)
LOM	One 1GbE Management Port		-	
Expansion slot	PCI-E x16	2	3	
	PCI-E x8	-	2 (for M.2 PCIe card)	
	OCP Mezzanine	2	-	
Remote Management	IPMI v2.0 Compliant, iKVM, Cluster Manager		OCS Rack Manager	
Power Supply	850W	2 x 1200W (1+1)	1000W*	
Form Factor and Dimensions (mm)	1U; 43.5 (H) x 442.4 (W) x 830.4 (D)		1U; 43.5 (H) x 441 (W) x 920 (D)	2U; 87.5 (H) x 441 (W) x 920 (D)

* Open CloudServer Blind-mate power supply

All-flash NVMe JBOF

Leading industrial storage system provides the best IOPS and IO performance per watt. Front access drawers saves lots of time and effort for maintenance and repair.






	ST7200 (2U30Bay All-flash NVMe JBOF)	ST300 (1U24Bay All-flash NVMe JBOF)
Processor		
Chassis SKU		
Memory		
Controller Module	PCIe 3.0 Switch	
Storage	60 M.2 or 30 U.2 NVMe SSDs	24 U.2 NVMe SSDs
External I/O Port	4 PCIe 3.0 x16 ports	2 PCIe 3.0 x16 ports
Remote Management	IPMI v2.0 Compliant, iKVM, Wiwynn Cluster Manager	
Power Supply	Centralized OCP Power Shelf	2 x 800W (1+1)
Form Factor and Dimensions (mm)	2U; 93.5 (H) x 536 (W) x 795 (D)	1U; 43.5 (H) x 448 (W) x 800 (D)

Accessory

Wiwynn server expansion cards effectively add functionality to system and storage with cost-effectively solutions for data-intensive application.

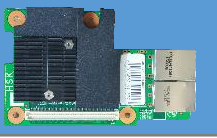
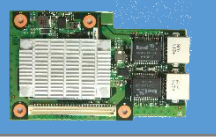
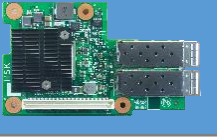
PCIe Gen3 Card

Best-suited for storage expansion and data disaggregation, the PCIe Gen3 card effectively increases capacity.

	P16M4 	Po8M2 	P16RC 
Function	NVMe SSDs Storage Expansion (4 M.2 2280/22110 carriers)	NVMe SSDs Storage Expansion (2 M.2 2280/22110 carriers)	PCIe Signal Retimer (4 mini-SAS HD connectors)
Host Bus Type	PCIe 3.0 x16	PCIe 3.0 x8	PCIe 3.0 x16
Form Factor	Full height half-length (FHHL)	Low-profile (LP) MD-2	Low-profile (LP) MD-2

Mezzanine Card

Provide the best connection from server to system and optimized CPU utilization.

	NM1GR 	NM1oGR 	NM1oGS 
Chipset	Intel i350	Intel X550	Qlogic BCM57810
Network Port	Dual-port 1000Base-TX RJ45	Single/Dual-port 10GbE RJ45	Dual-port 10GbE SFP+

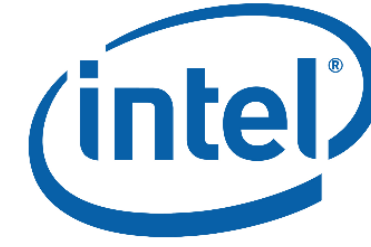
Switch

The best choice for the next-generation data centers. High-density, ultra-low latency, non-blocking Ethernet switches that deliver high performance.



	LN10040	LN10032	LN1154	LN1148-10SL
Switch Fabric	Broadcom BCM56900		BCM88375	Marvell 98CX8297
Control Processor	Intel C2550 Quad-core 2.4GHz processor			Marvell MV78460
Network Ports	100 GbE	12	32	4
	40 GbE	28	-	6 (Optional)
	25 GbE	*48	*128	-
	10 GbE	*48 + *48		48
1GbE	1 Management Port			48
Power Supply	2 x 500W (1+1)			2 x 550W (1+1)
Features	Top-of-Rack	●		●
	Leaf	●	●	●
	Spine	●	●	
	SDN	●	●	●
	NFV	●	●	●

* Split from 40GbE ports * Split from 100GbE ports



Wiwynn, a fast-growing cloud infrastructure provider that develops high-density computing and storage products, plus rack solutions for leading data centers. A cloud-enabling service company, providing end-to-end integrated solutions to enterprises who are looking to build, distribute, or resell cloud services to their clients.



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Product Guide



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