



## RACK MOUNT DUAL SOCKET 2 U SERVER



# Specification

## WAVESYS RACK MOUNT DUAL SOCKET 2U SERVER

**IP-03R-NVR12B2U-50/100/150**



2U FRONT



2U BACK

1. 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors, Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s
2. Intel® C621
3. 16 DIMM slots. Up to 4TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-2933MHz Or 2TB DCPMM, DDR42666MHz. Up to 2TB Intel® Optane DC Persistent Memory in memory mode (Cascade Lake only);
4. 3 PCI-E 3.0 x16,  
4 PCI-E 3.0 x8  
M.2 Interface: 2 PCI-E 3.0 x4  
M.2 Form Factor: 2242/2260/2280/22110  
M.2 Key: M-Key (RAID 0,1 support)
5. 1 VGA port
6. 12x3.5" Hot Swap Drive Slots
7. Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
8. Dual LAN with 1GbE with Intel® X722+ Marvell 88E1512
9. Dual/Quad Display

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Physical Stats	Form Factor	2U Rackmount
	Dimensions	26.04" x 17.00" x 3.47"
Processor/ Cache	CPU	2 <sup>nd</sup> Gen Intel® Xeon® Silver 4208 Scalable Processor 8 core (11M Cache, 2.10 GHz)
	Note	<ul style="list-style-type: none"> <li>•BIOS version 3.0a or above is required to support 2nd Generation Intel® Xeon® Scalable Processors-SP</li> </ul>
System Memory	Memory Capacity	<ul style="list-style-type: none"> <li>•BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)</li> <li>•Up to 4TB 3DS ECC RDIMM, DDR4-2933MHz</li> <li>•Up to 4TB 3DS ECC LRDIMM, DDR4-2933MHz, in 16 DIMM slots,</li> </ul>
	Memory Type	<ul style="list-style-type: none"> <li>•Up to 2TB Intel Optane™ DC Persistent Memory in memory mode (Cascade Lake Only)</li> </ul> 2933/2666/2400/2133MHz ECC DDR4 RDIMM, LRDIMM
	DIMM Sizes	<ul style="list-style-type: none"> <li>•RDIMM: 64GB</li> </ul>
		<ul style="list-style-type: none"> <li>•LRDIMM: 64GB</li> </ul>
		<ul style="list-style-type: none"> <li>•3DS LRDIMM: 128GB, 256GB</li> </ul>
On-Board	Memory Voltage	1.2V
	Error Detection	Corrects single-bit errors Detects double-bit errors (using ECC memory)
	Chipset	Intel® C621
	SATA	Intel® C621 controller for 12 SATA3 (6 Gbps) ports RAID 0,1,5,10
	IPMI	ASPEED AST2500
	Network Controllers	Dual LAN with 1GbE with Intel® X722+ Marvell 88E1512
	Graphics	Nvidia Quadro RTX 4000 16GB DDR6
	LAN	2 x1GbE LAN ports
	USB	7 USB 3.0 ports (4 rear + 2 headers + 1 Type A)
	Video Output	1 VGA port ,1 HDMI port
	Serial Port/Header	1 COM Port (1 rear )
	TPM	1 TPM Header
Storage and Power Supply	Drive Slots	12 x 3.5" Hot Swap Drive Slots
	Power Supply	1+1 800W Redundant Power supply



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Expansion Slots	PCI-E	3 PCIE 3.0 x16, 4 PCI-E 3.0 x8
	M.2	M.2 Interface: PCIE 3.0 x4 Form Factor: 2242/2260/2280/22110 Key: M-Key (RAID 0,1 support)
Management	Software	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
PC Health Monitoring	Voltage	+18V, +12V, +3.3V, +5V, +5V standby, 1.05 (PCH). Chipset Voltage, Memory Voltages, Monitors CPU voltages
	FAN	8x 4-pin fan headers (up to 8 fans), PWM fan speed control
	Temperature	CPU thermal trip support, Monitoring for CPU and chassis environment, Thermal Control for 8 Fan Connectors
	LED	Power LED, UID/Remote UID, BMC/IPMI Heartbeat LED
	Other Features	8-pin 12v DC power connector, ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, CPU thermal trip support for processor protection, NCSI header, ROHS, SDDC, UID, WOL
Operating Environment	Operating Temperature Range	10°C ~ 35°C (50°F ~ 95°F)
	Non-Operating Temperature Range	-40°C ~ 70°C (-40°F ~ 158°F)
	Operating Relative Humidity Range	8% ~ 95% (non-condensing)
	Non-Operating Humidity Range	5% ~ 95% (non-condensing)
Application software	Optional Application Software Preloaded at Factory	<ol style="list-style-type: none"> <li>1. Video Management software-WVMS</li> <li>2. Video Content Analytics-WVCA</li> <li>3. Face recognition Software- WVMS-FR</li> <li>4. Licence Plate Recognition Software-WVMS-LPR</li> </ol>