



**RACK MOUNT**

**SINGLE/DUAL SOCKET 1U SERVER**

# Specification

## WAVESYS RACK MOUNT SINGLE/DUAL SOCKET 1U SERVER

### IP-03R-NVR4B1U



1U FRONT



1U BACK



2U FRONT



2U BACK

1. Latest Gen Intel® Xeon® Scalable Processors Single/Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 165W TDP
2. Up to 1.5TB 3DS ECC RDIMM, DDR4-2933MHZ;  
Up to 1.5TB 3DS ECC LRDIMM, DDR4-2933MHZ, in 6 DIMM slots;
3. Up to 1TB Intel® Optane DC Persistent Memory in memory mode (Cascade Lake Only)
4. Intel® C621 Chipset
5. Expansion slots: 2 PCI-E 3.0 x16, 1 PCI-E 3.0 x8 (in x8)
6. 2 GbE LAN ports
7. 4/8 x 3.5" or 2.5" drive slots.
8. Supports 12V DC power input
9. I/O: 1 VGA, 2 COM, TPM header
10. 5 USB 3.0 (2 rear, 1 Type-A, 2 via header), 6 USB 2.0 (2 rear, 4 via headers)
11. M.2 NGFF connector
  - M.2 Interface: PCI-E 3.0 x4
  - Form Factor: 2242, 2280
  - Key: M-Key
  - Double Height Connector
12. Dual/Quad Display

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Physical Stats	Form Factor	1U
	Dimensions	9.6" x 9.6" (24.38cm x 24.38cm)
Processor/ Cache	CPU	Latest Gen Intel® Xeon® Scalable Processors Single/Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 165W TDP
	Core	Upto 32 core
	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> <li>•BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)</li> </ul>
System Memory	Memory Capacity	<ul style="list-style-type: none"> <li>•Up to 1.5TB 3DS ECC RDIMM, DDR4-2933MHz</li> <li>•Up to 1.5TB 3DS ECC LRDIMM, DDR4-2933MHz, in 6 DIMM slots,</li> <li>•Up to 1TB Intel Optane DC Persistent Memory in memory mode (Cascade Lake Only)</li> </ul>
	Memory Type	2933/2666/2400/2133MHz ECC DDR4 RDIMM, LRDIMM
	DIMM Sizes	<ul style="list-style-type: none"> <li>•RDIMM: 8GB, 16GB, 32GB, 64GB</li> <li>•LRDIMM: 32GB, 64GB, 128GB</li> <li>•3DS LRDIMM: 64GB, 128GB, 256GB</li> </ul>
	Memory Voltage	1.2V
	Error Detection	Corrects single-bit errors
On-Board	Chipset	Intel® C621
	SATA	4 slots(6Gbps)  RAID 0,1,5,10
	IPMI	ASPEED AST2500
	Network Controllers	Dual LAN with 1GbE with Intel® X722+ Marvell 88E1512
	Graphics	Nvidia Quadro T600 4GB DDR6
Input / Output	LAN	2x1GbE LAN ports
	USB	6 USB 2.0 ports (2 rear + 4 headers) 5 USB 3.0 ports (2 rear + 2 headers + 1 Type A)
	Video Output	1 VGA port /2 HDMI port
	Serial Port/Header	2 COM Port (1 rear )
	TPM	TPM Header
Storage and Power Supply	Drive Slots	4/8 x 3.5" or 2.5" drive slots
	Power Supply	1+1 500W Redundant Power supply



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Expansion Slots	PCI-E	2 PCI-E 3.0 x16, 1 PCI-E 3.0 x8
	M.2	<ul style="list-style-type: none"> <li>• M.2 Interface: PCIE 3.0 x4</li> <li>• Form Factor: 2242,2280</li> <li>• Key: M-Key (RAID 0,1 support)</li> <li>• Double Height Connector</li> </ul>
System BIOS	BIOS Type	AMI UEFI
	BIOS Features	<ul style="list-style-type: none"> <li>•ACPI 6.0</li> <li>•RTC ( Real Time Clock Wakeup)</li> <li>•SMBIOS 3.0 or later</li> </ul>
Management	Software	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, Watchdog
	Power Configurations	<ul style="list-style-type: none"> <li>•ACPI Power Management</li> <li>•Power-on mode for AC power recovery</li> </ul>
PC Health Monitoring	Voltage	+1.8V, +12V,+3.3V,+5V,+5V standby, 3.3V standby, 8-fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility, VBAT
	FAN	8x 4-pin fan headers (up to 8 fans), Fan speed control Overheat LED indication, PWM fan speed control, System level control
	Temperature LED	CPU thermal trip support, PECL CPU/System Overheat LED, UID/Remote UID, Suspend static indicator LED
	Other Features	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, M.2 NGFF connector, ROHS, UID, WOL
Operating Environment	Operating Temperature Range	0°C ~60°C (32°F~140°F)
	Non-Operating Temperature Range	-20°C~60°C (-4°F~140°F)
	Operating Relative Humidity Range	10%~85% (non-condensing)
	Non-Operating Humidity Range	10% ~ 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>