



RACK MOUNT DUAL SOCKET
2 U SERVER

Specification

WAVESYS RACK MOUNT DUAL SOCKET 2U SERV

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

- 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,

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)

- - 4 PCI-E 3.0 x8

2U BACK

- 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



2U FRONT

Specification



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|------------------|--------------------|---|
| Physical Stats | Form Factor | 2U Rackmount |
| | Dimensions | 26.04" x 17.00" x 3.47" |
| Processor/ Cache | CPU | IP-03RNVR72H/IP-03RNVR100:2 nd Gen Intel® Xeon® Silver 4208 Scalable |
| | | Processor 8 core (11M Cache, 2.10 GHz) |
| | Note | BIOS version 3.0a or above is required to support |
| | | 2nd Generation Intel® Xeon® Scalable Processors-SP |
| | | •BIOS version 3.2 or above is required to support |
| | | 2nd Gen Intel® Xeon® Scalable processors |
| | | (codenamed Cascade Lake-R) |
| System Memory | Memory Capacity | ●Up to 4TB 3DS ECC RDIMM, DDR4-2933MHz |
| | | ●Up to 4TB 3DS ECC LRDIMM, DDR4-2933MHz, |
| | | in 16 DIMM slots, |
| | | •Up to 2TB Intel Optane™ DC Persistent Memory in memory |
| | | mode (Cascade Lake Only) |
| | Memory Type | 2933/2666/2400/2133MHz ECC DDR4 RDIMM, LRDIMM |
| | DIMM Sizes | •RDIMM: 64GB |
| | | •LRDIMM: 64GB |
| | | •3DS LRDIMM: 128GB, 256GB |
| | Memory Voltage | 1.2V |
| | Error Detection | Corrects single-bit errors |
| | | Detects double-bit errors (using ECC memory) |
| On-Board | Chipset | Intel® C621 |
| | SATA | Intel® C621 controller for 12 SATA3 (6 Gbps) ports |
| | | RAID 0,1,5,10 |
| | IPMI | ASPEED AST2500 |
| | Network | Dual LAN with 1GbE with Intel® X722+ Marvell 88E1512 |
| | Controllers | |
| | 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 | Drive Slots | 12 x 3.5" Hot Swap Drive Slots |
| Power Supply | Power Supply | 1+1 800W Redundant Power supply |
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Specification

| П | Expansion | | 3 PCIE 3.0 x16, |
|---|------------------------|--|--|
| П | Slots | PCI-E | |
| | | | 4 PCI-E 3.0 x8 |
| - | | M.2 | M.2 Interface: PCIE 3.0 x4 |
| | | | Form Factor: 2242/2260/2280/22110 |
| | Management | Software | Key: M-Key (RAID 0,1 support) Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, |
| | ivialiagement | Software | SPM, SSM, SUM, SuperDoctor® 5, Watchdog |
| | PC Health | Voltage | +18V, +12V,+3.3V,+5V,+5V standby, 1. 05 (PCH). |
| | Monitoring | FANI | Chipset Voltage, Memory Voltages, Monitors CPU voltages |
| | | FAN Temperature | 8x 4-pin fan headers (up to 8 fans), PWM fan speed control CPU thermal trip support, Monitoring for CPU and |
| | | remperature | 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 | Video Management software-WVMS Video Content Analytics-WVCA Face recognition Software- WVMS-FR Licence Plate Recognition Software-WVMS-LPR |