WAVESYS

EVOKING TRUST

RACK MOUNT

DUAL SOCKET 2 U SERVER

WAVESYS RACK MOUNT DUAL SOCKET 2U SERVER

IP-03R-NVR8B2U

2U FRONT

2U BACK

1. Latest Gen Intel® Xeon® Scalable Processors 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

Specification

Physical Stats	Form Factor	2U
	Dimensions	9.6" x 9.6" (24.38cm x 24.38cm)
Processor/ Cache	CPU	Latest Gen Intel® Xeon® Scalable Processors Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 165W TDP
	Core	Upto 28 core
	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 1.5TB 3DS ECC RDIMM, DDR4-2933MHz •Up to 1.5TB 3DS ECC LRDIMM, DDR4-2933MHz, in 6 DIMM slots, •Up to 1TB Intel Optane DC Persistent Memory in memory mode (Cascade Lake Only)
	Memory Type	2933/2666/2400/2133MHz ECC DDR4 RDIMM, LRDIMM
	DIMM Sizes	•RDIMM: 8GB, 16GB, 32GB, 64GB •LRDIMM: 32GB, 64GB, 128GB •3DS LRDIMM: 64GB, 128GB, 256GB
	Memory Voltage	1.2V
	Error Detection	Corrects single-bit errors
On-Board	Chipset	Intel® C621
	SATA	8 slots(6Gbps) RAID 0,1,5,10
	IPMI	ASPEED AST2500
	Network Controllers	Dual LAN with 1GbE with Intel® X722+ Marvell 88E1512
Input / Output	Graphics	Nvidia Quadro T400 2GB DDR6
	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

Specification

Expansion Slots	PCI-E	2 PCIE 3.0 x16, 1 PCI-E 3.0 x8
	M.2	• M.2 Interface: PCIE 3.0 x4 • Form Factor: 2242,2280 • Key: M-Key (RAID 0,1 support) • Double Height Connector
System BIOS	BIOS Type	AMI UEFI
	BIOS Features	•ACPI 6.0 •RTC (Real Time Clock Wakeup) •SMBIOS 3.0 or later
Management	Software	Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, Watchdog
	Power Configurations	•ACPI Power Management •Power-on mode for AC power recovery
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	CPU thermal trip support, PECI
	LED	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	1. Video Management software-WVMS 2. Video Content Analytics-WVCA 3. Face recognition Software- WVMS-FR 4. Licence Plate Recognition Software-WVMS-LPR 5. WVCA- Forensic Search Software 6. Videowall