

# KRPA-U16

## unmatched 64-core performance and PCIe Gen4 support



CPU  
Number

1



Memory  
Number

16

KRPA-U16 is built on AMD EPYC™ platform to deliver incredible server performance. With up to 64 cores per CPU and up to 128 threads, KRPA-U16 packs incredible power in minimal space. 16 DIMM slots provide best-in-class memory capacity and speed of up to 3200Mhz, eliminates the data transfer bottlenecks and dramatically improve system performance.

### FEATURE

- Support for SAS/SATA/NVME storage
- 1 x M.2 connector / Internal Type-A USB
- 5 x PCIe+ 1 x OCP Expansion

### Support for up to 6 NVMe SDDs

KRPA-U16 supports up to twelve SATA drives via two Mini-SAS HD and four SATA connectors for more connectivity with external devices and cleaner cable routing. With six onboard OCUlink connectors that provide efficient port-to-port connection with NVMe devices, KRPA-U16 eliminates the need for PCIe transaction cards, while providing the reduced latency and higher maximum bandwidth of NVMe technology.

### Flexible expandability with 2x PCIe Gen4, 3x PCIe Gen3 and 1xOCP 2.0 Gen4 x16link slots

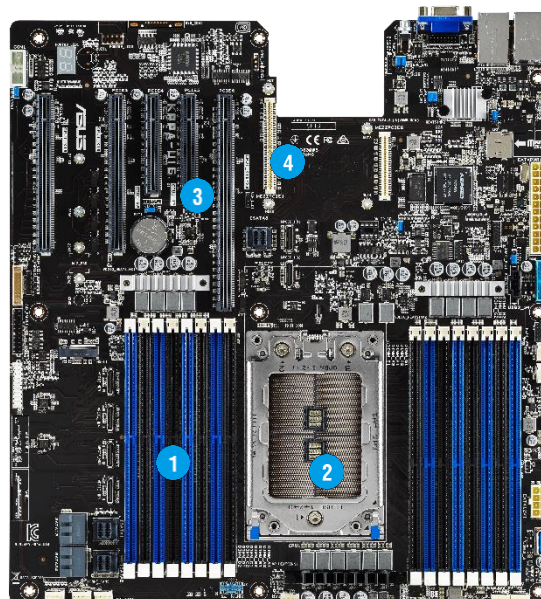
With the scalable PCIe lane support of AMD EPYC processors, KRPA-U16 provides flexible expandability with five PCIe slots, as well as one connector for up to 200Gb/s OCP 2.0 Mezzanine card support for applications that require high-bandwidth to transfer large data such as data center, HPC, web- hosting and enterprise uses..

### Target market

- Data center
- Enterprise Application

### Comprehensive IT infrastructure management solution

ASMB9-iKVM and ASUS Control Center (ACC\*)



1. 16 x DIMM, DDR4-3200/2933/2666 RDIMM, LRDIMM, LRDIMM 3DS
2. AMD EPYC™ 7002 Generation Processor
3. 2 x PCIe x16 (Gen3 x16) / 2 x PCIe x8 (1x Gen3 x8 link + 1x Gen4 x8 link); 1 x PCIe x24 (Gen4 x16 link + x8 link)
4. 1 x OCP 2.0 Mezzanine (Gen4 x16 link)

# KRPA-U16

# SPECIFICATION

<b>Processor Support.</b>		1 x Socket SP3 AMD EPYC™7002 Generation
<b>Core Logic</b>		System on Chip (SoC)
<b>Memory</b>	<b>Total Slots</b>	16 (8-channel)
	<b>Memory Type</b>	DDR4 3200/2933/2666 RDIMM/LR-DIMM/LR-DIMM 3DS *Refer to ASUSserver AVL for the latest update
	<b>Memory Size</b>	32GB, 16GB, 8GB (RDIMM), 64GB, 32GB (LRDIMM), 128GB, 64GB (LRDIMM 3DS) *Refer to ASUSserver AVL for the latest update
<b>Expansion Slots</b>	<b>Total PCI/PCI-X/PCI-E/PIKE Slots</b>	5+1
	<b>Slot Type</b>	Slot 5: PCIe 4.0 x24 (x16 link + x8 link) HL Slot 4: PCIe 4.0 x8 (x8 link) HL Slot 3: PCIe 3.0 x8 (x8 link q-switch from slot-2) HL Slot 2: PCIe 3.0 x16 (x16 link, if Slot 3 is occupied switch to x8 link) FL Slot 1: PCIe 3.0 x16 (x16 link) FL  OCP slot: OCP 2.0 Mezzanine card (x16 link)
<b>Disk Controller</b>	<b>SATA Controller</b>	SATA Controller : CPU Integrated 4 x SATA 36Gb/s ports 12 x SATA 36Gb/s ports by 3 Mini-SAS HD connectors 1 x M.2 connector (2242/2260/2280/22110) both SATA & PCIe mode
	<b>SAS Controller</b>	Optional kits: ASUSPIKE II 3108 II 8i-240PD 2GSASH RAID card 12GSAS Support
<b>Networking</b>	<b>LAN</b>	1 x Dual Port Intel I350-AM2 Gigabit LAN Controller, 1 x Management Port
<b>Graphic</b>	<b>VGA</b>	Aspeed AST2500 64MB
<b>Onboard I/O Ports</b>		1 x USB 3.0 header (for front panel), 1 x USB 3.0 port (Type-A vertical) 1 x Micro SD Card slot, 1 x Serial port header, 1 x VGA header (for front panel), 8 x FAN header (4-pin), 1 x TPM header, 1 x Chassis Intruder header (2-pin)
<b>Rear I/O Ports</b>		2 x USB 3.0 ports, 1 x VGA port, 2 x RJ-45 GbE LAN ports 1 x RJ-45 Mgmt LAN port
<b>Management Solution</b>	<b>Software</b>	ASUS Control Center (Classic)
	<b>Out of Band Remote Management</b>	On-Board ASMB9-iKVM for KVM-over-IP
<b>Dimension (Form Factor)</b>		EEB (12"x13", 305mm x 330mm)
<b>Net Weight Kg (CPU, DRAM &amp; HDD not included)</b>		1.4 Kg
<b>Gross Weight Kg (CPU, DRAM &amp; HDD not included, Packing include)</b>		2.5 Kg
<b>Environment</b>		Operation temperature: 10°C~35°C Non operation temperature: -40°C~70°C Non operation humidity: 20%~90% (Non condensing)