iKERN-2052-A800

2U Industrial Rackmount Computer



Specifications

CPU

• Intel® Core™ Ultra 5/7/9 2nd Generation (Arrow Lake):

Ultra 9 285	Ultra 7 265	Ultra 5 245	Ultra 5 225
5.6 GHz	5.3 GHz	5.1 GHz	4.9 GHz

Memory

• 4x 288-pin DIMM sockets
• Supports up to 256GB DDR5 6400/5600 MHz, unbuffered, None ECC

Chipset

• Intel® Q870

Graphic

• Integrated in CPU Intel® Xe-LPG Graphics
Support DirectX 12, OpenGL 4.5, OpenCL 3, Triple View
• Video ports: 2xHDMI, Display Port, USB-C DP alt
• DP++ 2.1: resolution up to 4096x2160 @ 60Hz
• HDMI 2.1: resolution up to 7680x4320 @ 60Hz
• USB-C: resolution up to 4096x2160 @ 60Hz

Ethernet

• 1x Intel® i219LM Gigabit Ethernet Controller, supports vPro
• 1x Intel® i210AT Gigabit Ethernet Controller

Storage / Drive Bays / Slots

• 2x 5.25" (Optional pre-assembled with DVDRW)
• 2x 3.5"
• 2x 2.5" (Internal)
• 1x 2260/2280/22110/25110 M.2 M-Key (PCIe x4 Gen5), supports SSD
• 1x 2242/2280 M.2 M-Key (PCIe x4 Gen4), supports SSD

RAID / SATA

• 4x SATA 3.0 (Support RAID 0/1/5/10)

Expansion Slots

• 2x PCIe x16 Gen 5 (1 x16 signal or 2 x8 signal)
• 2x PCIe x4 Gen 4
• 2x PCIe x1 Gen 4
• 1x 3042/3052 M.2 B-Key (supports LTE/5G)
• 1x 2230 M.2 E-Key (supports CNVi for WiFi/BT)

Front I/O

• 2x USB 3.2 Gen1

Rear I/O

• 1x DP, 2x HDMI, 2x RJ45 LAN, 2x DB9 RS232/422/485
• 5x USB 3.2 Gen2, 1x USB 4/Thunderbolt 4
• Line-in/out, Mic-in

Other Internal Connectors / Functions

• 4x RS232, 2x USB 2.0,
• 1x USB 3.2 Gen2 Vertical Type-A, 1x USB 4/Thunderbolt 4 header
• 1x 16-bit GPIO, TPM 2.0

Power Supply

• Power input: 500W, 100-240V AC 50~60 Hz, 80 Plus Gold

Cooling

• 1x 80x80 mm Cooler

Mechanical

• Mounting: optional slide-rails
• Power / Reset Button in front

Dimensions

• Dimension (W x H x D mm): 483 x 88.1 x 430 mm
• Weight: 10 kg

Environment

• Operating Temperature: 0°C to 50°C
• Storage Temperature: -20°C to 70°C
• Humidity: 10 ~ 90%, non-condensing

Certifications

• CE

Operating System Support

• Windows 10 /11 Pro / Windows 10 IoT LTSC / 11 IoT LTSC

Ordering Information

#iKERN-2052-A800

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All product specifications are subject to change without notice

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