

iKERN-1810-AC80

1U Fanless Industrial Rackmount Computer



Specifications

CPU

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

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

Memory

- 2x 262-pin SO-DIMM sockets
- Supports up to 96GB DDR5 4800/5600 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: HDMI, 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

- 2x Intel® i226-IT 2.5 Gigabit Ethernet Controller, supports vPro

Storage / Drive Bays / Slots

- 1x 2.5" Internal Drive Bay (Optional with SATA Kit)
- 1x 2280/3080 M.2 M-Key (PCIe x4 Gen4) Slot

RAID / SATA

- 4x SATA 3.0

Expansion Slots

- 1x PCIe x16 (Riser Card Pre-installed)
- 2x 2242/3042 M.2 B-Key (USB 3.2 + SATA / USB 2.0) (PCIe x2 / USB 2.0)

Rear I/O

- 1x DP, 1x HDMI, 1x USB 3.2 Type-C DP Alt., 2x RJ45 LAN
- 4x USB 3.2 Gen1 Type-A, 4x DB9 RS232/422/485

Other Internal Connectors / Functions

- 4x USB 2.0, 1x SMBus, 2x I2S, 16-bit DIO

Power Supply

- Power input: 200W, 100-240V AC 50~60 Hz Integrated PSU
(Optional 12-36V DC Wide Range Input 8-pin ATX)

Cooling

- Passive Cooling

Mechanical

- Aluminium Chassis
- Power Button on rear

Dimensions

- Dimension (W x H x D mm): 483,7 x 44,3 x 397.3mm
- Weight: 7 kg

Environment

- Operating Temperature: 0°C to 45°C
- Storage Temperature: -20°C to 60°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-1810-AC80