

iKERN-1710-2D1

1U Industrial Rackmount Computer



Specifications

CPU

- Intel® Core™ i3/i5/i7/i9 / Pentium/Celeron 13th/12th Generation:

i9-13900TE	i7-13700TE	i5-13500TE	i3-13100TE	G7400TE
3.9 GHz	3.6 GHz	3.1 GHz	2.4 GHz	3.0 GHz
i9-12900TE	i7-12700TE	i5-12500TE	i3-12100TE	G6900TE
3.6 GHz	3.4 GHz	1.9 GHz	2.1 GHz	2.4 GHz

Memory

- 2x 260-pin SO-DIMM sockets
- Supports up to 64GB DDR4 3200 MHz, unbuffered, None ECC

Chipset

- Intel® Q670E

Graphic

- Integrated in CPU Intel® UHD Graphics 770 / 730 / 710
Support DirectX 12, OpenGL 4.5, OpenCL 3.0, Quad View
- Video ports: HDMI, 2x Display Port, eDP, LVDS
- DP++ 1.4a: resolution up to 4096x2160 @ 60Hz
- HDMI 2.0b: resolution up to 4096x2160 @ 60Hz
- eDP 1.4b: resolution up to 4096x2160 @ 60Hz
- LVDS: resolution up to 1920x1200 @ 60Hz

Ethernet

- 1x Intel® i225LM 2.5 Gigabit Ethernet Controller, supports vPro
- 1x Intel® i225LM/i225V 2.5 Gigabit Ethernet Controller

Storage / Drive Bays / Slots

- 2x 2.5" External hot swap
- 1x 2242/2260/2280 M.2 M-Key (PCIe 3.0 x4) Slot
- 1x 2242 M.2 M-Key (PCIe 4.0 x4 / SATA3) Slot

RAID / SATA

- 2x 2.5" SATA 3.0 (Support RAID 0/1)
- 2x NVMe M.2 2280/42 & 2242 (Support RAID 0/1)

Expansion Slots

- 1x PCIe x16 Gen 4 (Optional)
- 1x 3042/3052 M.2 B-Key with SIM slot for 4G/5G
- 1x 2230 M.2 E-Key for WiFi/BT

Front I/O

- 2x USB 3.2 Gen1, 2x USB 2.0

Rear I/O

- 2x DP, 1x HDMI, 2x RJ45 LAN, 4x USB 3.2 Gen2 Type-A
- Line-out, Mic-in

Other Internal Connectors / Functions

- Optional over Slot bracket available (occupied PCIe slot):
2x RS232/422/485 or 2x RS232 or 2x USB 2.0 or 8-bit GPIO
- TPM 2.0 onboard

Power Supply

- Power input: 12-28VDC-in with DC jack connector
(19-28V for use with PCIe Add-on cards)

Cooling

- Passive Cooling

Mechanical

- Aluminium with Anodised Coating
- Power / Reset Button in front

Dimensions

- Dimension (W x H x D mm): 482,6 x 43,6 x 278 mm
- Weight: 8.5 kg

Environment

- Operating Temperature: 0°C to 40°C
- Storage Temperature: -20°C to 70°C
- Humidity: 10 ~ 90%, non-condensing

Certifications

- CE

Operating System Support

- Windows 10 Pro / 10 IoT LTSC / Windows 11

Ordering Information

#iKERN-1710-2D1