AICP-X64

26/05/2023

Artificial Intelligence Computing Platform for FOTAS

Intel® Xeon® Processor
64 GB ECC RDIMM
nVidia RTX™ 4000

Description:

The AICP-X64 is powerful server with Intel® Xeon® Processor CPU and high performance NVIDIA® card designed as management and processor unit for the FOTAS acoustic sensing system. The AICP-X64 computing and processing power is designed especially for modern AI applications, integrates maximum compute and networking throughput and enables deep learning and artificial intelligence capability through the use of neural networks.

AICP-X64 management and processor unit has a dedicated Intelligent Platform Management Interface (IPMI) port to allow remote management of the server.

Features:

- Intel® Xeon® Processor
- nVidia® RTX™ 4000
- System memory 64 GB DDR4 2133 MHz
- On board expansion slot M.2 NVMe PCI-E 3.0 x4
- 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10:
  - Installed 2x 1 TB SSD
- 4x LAN (2x 10GBase-T + 2x 1000Base-T)
- Dedicated IPMI LAN port
- 2 USB 3.0 ports (rear)

System Memory

64 GB ECC/DDR4-2133MHz

Discs

2x 1 TB Solid State Drives - SSD
1x 480 GB M.2

Input / Output

LAN

1x RJ45 Dedicated IPMI LAN port
2x RJ45 10GBase-T ports
2x RJ45 1000Base-T ports

USB

2x USB 3.0 port(s) (2 rear)

Video Output

1x VGA port(s)

3x Display Ports (nVidia graphics card RTX™ 4000)
1x USB-C

Expansion Slots

1x PCI-E 3.0 x4 NVMe 2242/2280

System Management Software

IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support

Power

Up to 350 W with Input 180 − 240 Vac

Dimensions

Height	43 mm (1U height (19" rack)
Width	437 mm
Depth	369 mm
Weight	5.8 kg

Operating Environment

Operating Temperature Range	+5°C to +35°C
Non-Operating Temperature Range	-40°C to +70°C
Operating Relative Humidity Range	8% - 90% (non-condensing)
Non-Operating Relative Humidity Range	5% - 95% (non-condensing)

GPU specification

GPU type	RTX™ 4000
GPU memory	8 GB
Memory Interface	256-bit
Memory Bandwidth	448 GB/s
CUDA Cores	6144
Single Precision Performance	19.2 TFLOPS

Ordering code: AICP-X64-A4

Front panel view

Rear panel view