

EAI-I731E

Compact AI Platform with NVIDIA® A2 GPU Compatibility



Features

- 13th Gen. Intel® Core i7-13700TE
- NVIDIA® A2 GPU Card Support
- 2x DDR5 5600MHz SODIMM up to 96GB
- 2x 2.5" Removable HDD/SSD, 2x M.2(SATA) 2242 M-Key, 1x M.2(NVMe) 2240/2280 M-Key
- 2x 2.5GbE RJ45, 1x RJ45 Console, 1x RJ45 LOM
- 2x COM, 8x USB 3.2, 1x HDMI, 1x DP, 4x DI & DO
- 1x PCIe*16, 1x PCIe*4, 1x Nano-SIM & eSIM
- A NVIDIA-Certified System for industrial edge

Preliminary Specifications

Platform

CPU	13th Gen. Intel® Core i7-13700TE
Chipset	Intel® R680E
GPU	NVIDIA® A2 60W
BIOS	AMI SPI Flash BIOS

System Memory

Technology	2x DDR5 5600MHz SODIMM
Max. Capacity	Up to 96GB (1x 32GB default)

Ethernet

Interface	2x 2.5GbE RJ45
Speed	100M/1G/2.5GbE

I/O Interface

Reset Button	1
Power Button	1
Serial	1x RJ45 Console, 1x RJ45 LOM
COM	2x DB9 RS232/422/485
Display	1x HDMI, 1x DP 1.4
USB	8x USB 3.2 Gen1 Type A
DIO	4x DI (support PNP/NPN/dry contact) 4x DO (support dry/sink)
Audio	Line-out, Mic-in

Storage

Type	SATA III
Installation	2 x 2.5" Removable HDD/SSD
Onboard Slot	2x M.2(SATA) 2242 M-Key 1x M.2(NVMe) 2240/2280 M-Key

Expansion

mini-PCIe/M.2	1x M.2 2230 E-Key for WiFi 6/6E (BT) 1x M.2 3042/3052 B-Key for LTE/5G
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PCIe Slot	1x PCIe*16 Gen4 1x PCIe*4 Gen3
SIM Card Slot	Nano-SIM x1 (each for LTE/5G module) 1x eSIM

Miscellaneous

Watchdog	Yes
Internal RTC with Li Battery	Yes
TPM	Onboard TPM 2.0

Cooling

Processor	Passive CPU Heatsink 2x Smart Fan for PCIe expansion
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Environmental Parameters

Temperature	Operating Temperature : 0~50°C Operating With 35W CPU Storage Temperature: -40°C~75°C
Humidity (RH)	5~90% Operating 5~ 95% Non-Operating

System Dimensions

WxDxH	190 x 286 x 250mm
Weight	8 kg
Mounting	Wall mount

Power

Type/Watts	300W
Input	12/24 VDC

OS

Linux	Ubuntu 20.04
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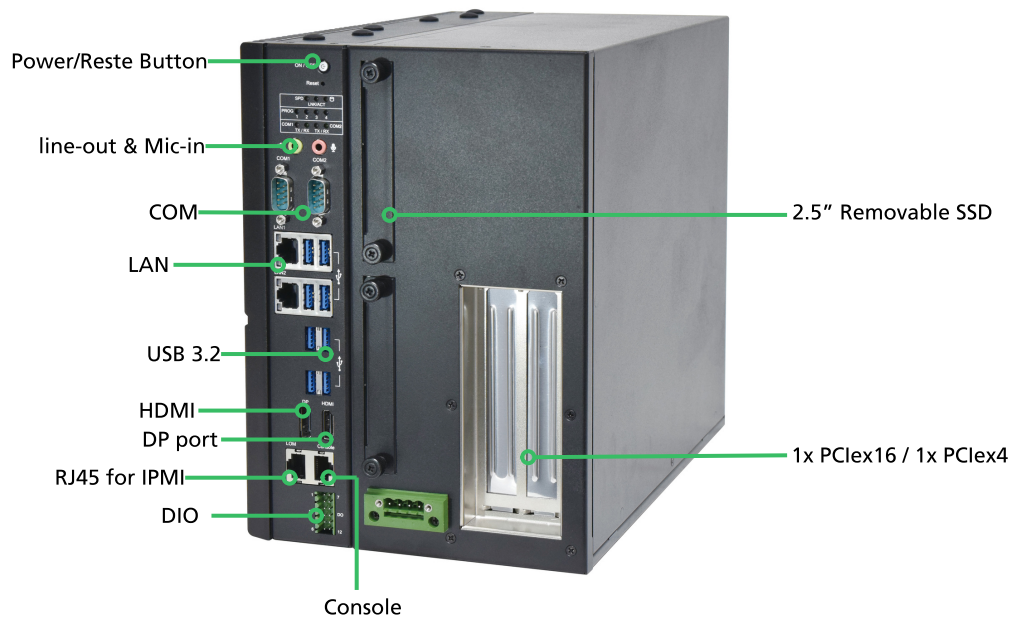
SDK

Intel	OpenVINO
NVIDIA	AI Stacks

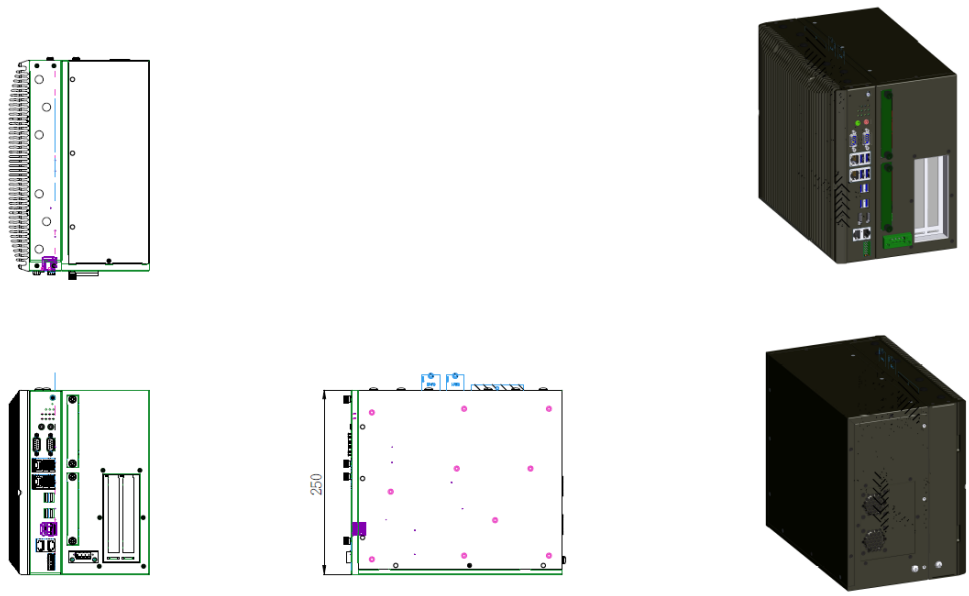
Certification

EMC	CE/FCC Class A, UKCA, RoHS
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Product I/O View



Dimensions (WxDxH): 190 x 286 x 250mm



Ordering Information

SKU	CPU	GPU	Memory	Storage	Ethernet	SDK
EAI-I731E	13th Gen. Intel® Core i7-13700TE	NVIDIA® A2 60W	2x DDR5 5600MHz SODIMM Up to 96GB (1x 32GB default)	2x M.2 M-key SATA 1x M.2 M-key NVMe 2x 2.5" SATA drive bay	2x 2.5GbE RJ45	Intel OpenVINO NVIDIA AI Stacks