

EAI-I510

Preliminary

AI Inference System Powered by Intel® Core™ Ultra Processors (Series 2)



Preliminary Specifications

Platform

CPU	Intel® Core™ Ultra 9/7/5 Processors (Series 2)
SOM TDP	Up to 45W/28W
Chipset	SoC
BIOS	AMI SPI Flash BIOS

System Memory

Technology	DDR5 up to 6400Mhz, non-ECC SODIMM
Max. Capacity	96GB

Ethernet

Interface	2x 2.5GbE RJ45 2x 10GbE RJ45
iAMT	i226-LM (LAN1)
Bypass	N/A

I/O Interface

Reset Button	1
Serial	2x DB9 RS-232/422/485
Display	2x DP 1.2 (1x DP++, 1x DP)
USB	1x USB 2.0, 1x USB 3.0, 2x USB 3.2 (Gen2)
DIO	6-pin terminal block 4x DI, 4x DO
Power Button	1x Power on/off Button 1x 2-pin terminal block (cabling control)
Audio	2x Phone Jack for Mic-in & Line-out
Antenna	6x SMA Antenna for Wifi/ LTE/ 5G modules

Storage

HDD/SSD Support	2x 2.5"x 7mm (SATAIII)
Onboard Slot	1x M.2(NVMe) 2280 M-Key

Features

- Intel® Core™ Ultra Processors (Series 2)
- DDR5 6400Mhz Memory Up to 96GB
- 2x 2.5GbE RJ45, 2x 10GbE RJ45
- 2x DB9 RS-232/422/485, 4x USB Type A, 1x DP 1.2, Mic-in & Line-out, 4x DIO
- 1x M.2 2230 E-Key for WiFi 6/6E, 1x M.2 3042/3052 B-Key for LTE/5G, 2x Nano-SIM
- Operating temperature 0~40°C for commercial appliances

Expansion

PCIe Slot	1x PCIe x8 connector space reserved (PCIe Gen3 x8)
mini-PCIe/M.2	1x M.2 2230 E-Key for WiFi 6/6E w/BT 1x M.2 3042/3052 B-Key for LTE/5G(reserved)
SIM Card Slot	1x Nano-SIM 1x eSIM (space reserved)

Miscellaneous

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

Cooling

Processor	By chassis
System	Fan

Environmental Parameters

Temperature	0°C~40°C
Humidity (RH)	5~90% Operating 5~95% Non-Operating, non-condensing

System Dimensions

WxHxD	270 x 119 x 180 mm
Weight	TBD
Mounting	Wall mount/VESA mount(optional)

Power

Type/Watts	120W
Input	1x 2 pin Terminal Block +24VDC by AC/DC adapter

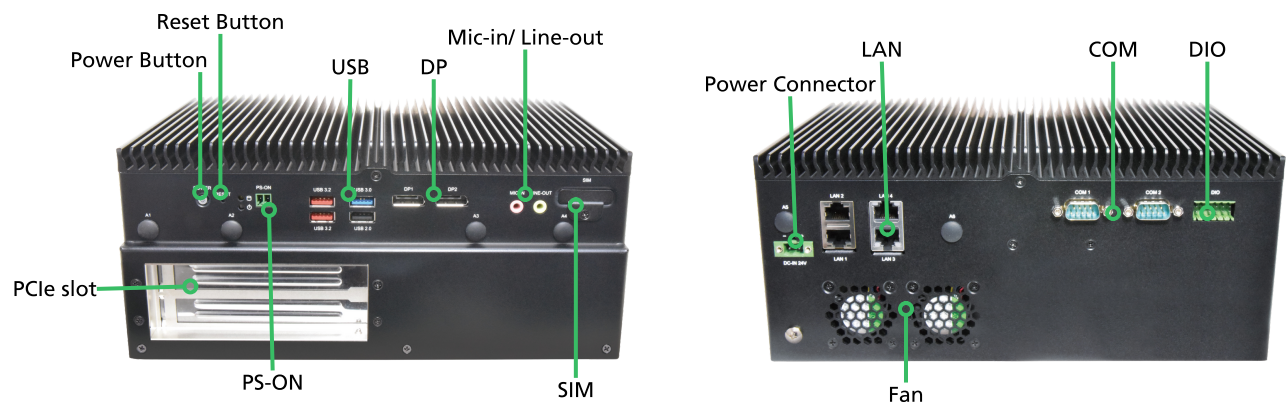
Driver Support

OS	Windows10 & 11 (LTSC), Linux Ubuntu
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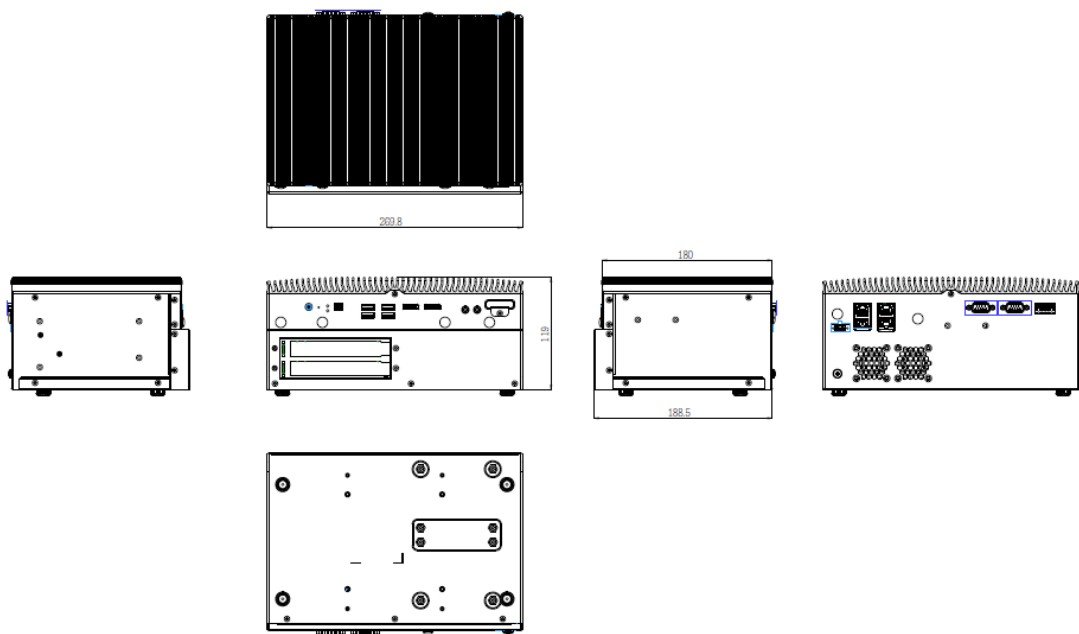
Certification

EMC	CE/UKCA, FCC Class A, RoHS, UL+CB[62368-1]
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Product I/O View



Dimensions (WxHxD): 270 x 119 x 180 mm



Ordering Information

SKU	CPU	Memory	Ethernet	I/O	Storage	Power
EAI-I510A	Intel® Core™ Ultra 9,14C 45W (Series 2)	DDR5 6400Mhz, up to 96GB	2x 2.5GbE RJ45 2x 10GbE RJ45	2x DB9 RS-232/422/485 2x DP 1.2 4x USB 4x DIO Mic-in & Line-out	2x 2.5" x 7mm (SATAIII) 1x M.2(NVMe) 2280 M-Key	+24VDC
EAI-I510B	Intel® Core™ Ultra 7,14C 28W (Series 2)					
EAI-I510C	Intel® Core™ Ultra 5,12C 28W (Series 2)					