MAB-T660

MAB-T660 GPU card IT Grade AI Box PC
with Intel 12/13th Gen Core I Processors



Features

- 12/13th Generation Intel® Core™ i3/i5/i7/i9 Processors
- Intel® R680E Chipset
- 2 x SODIMM Up to 64GB Dual Channel DDR5 4800MHz Non-ECC DRAM support
- 4 x Intel® i226LM 2.5 Gigabit Controller
- 2 x DP++, 1 x HDMI 2.1b
- 1 x PCI-e x 16 Gen 5 or 2 x PCI-e x 8 by switch (from CPU)
- 1 x 2.5" Drive Bay
- 4 x USB 3.2 Gen 2 & 4 x USB 3.2 Gen 1 at Rear, 2 x USB at Front

External Adapter | Slim Design | Rizer Card Expansion | Smart Fan Control | Medical Compliance

Specifications

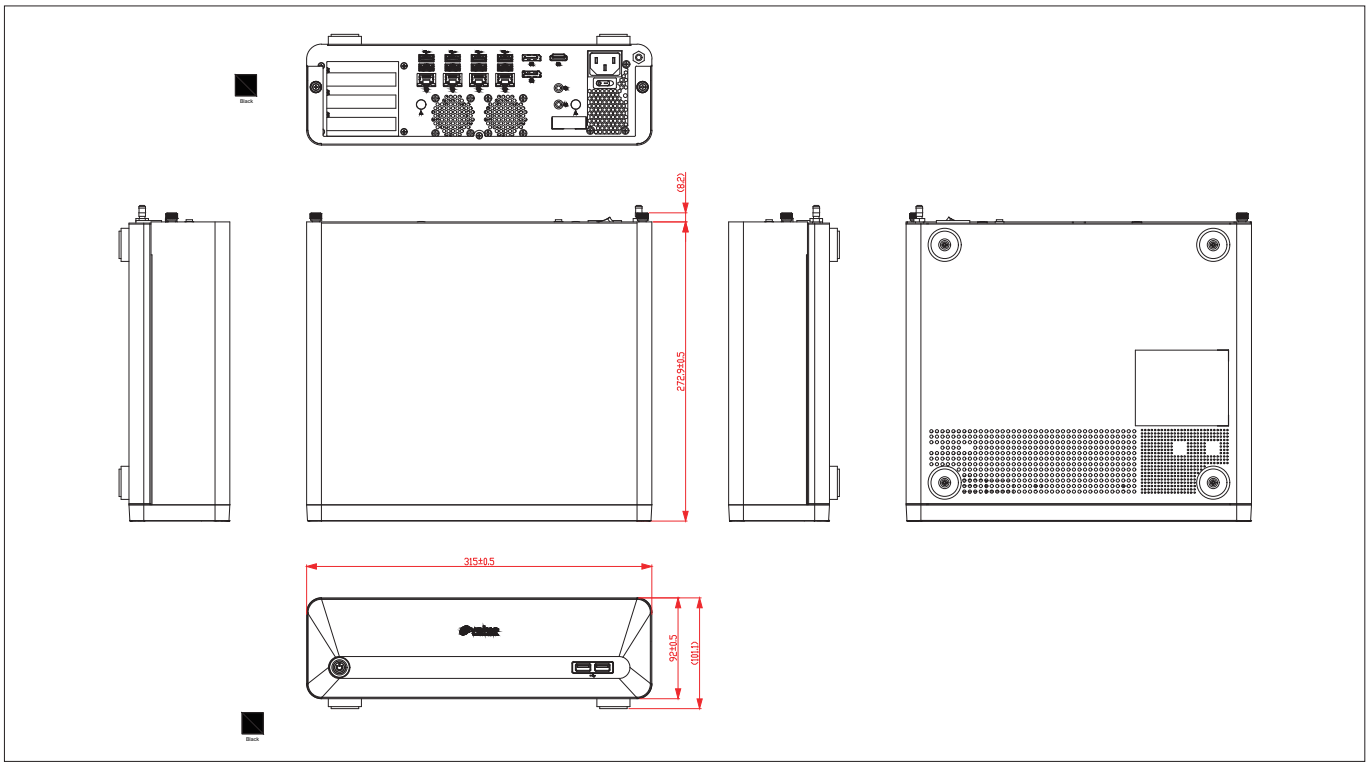
System Information	
Processor	12/13th Generation Intel® Core™ i3/i5/i7/i9 Processors
Platform Controller Hub	Intel® R680E Chipset
System Memory	2 x SODIMM Up to 64GB Dual Channel DDR5 4800MHz Non-ECC DRAM support
I/O Chipset	NuvoTon NCT6126D
BIOS	AMI uEFI BIOS, 256Mbit SPI Flash ROM
Watchdog Timer	H/W Reset, 5~255 seconds/5~255 minutes
H/W Status Monitor	CPU temperature monitoring, voltages monitoring, CPU fan speed control
RAID	Support RAID 0, 1
SBC	EMX-R680P
Expansion	
M.2	1 x M.2 (2230) E-Key, support Wi-Fi module with PCIe x 2 Gen 3 & USB 2.0 1 x M.2 (2242/2280) M-Key, support PCI-e x 4 Gen 4 SSD (top side)
PCIe	1 x PCI-e x 16 Gen 5 or 2 x PCI-e x 8 by switch (from CPU)
Compatible GPU	Supports up to NVIDIA RTX 4000 SFF Ada (Optional)
Storage	
Storage	1 x 2.5" SATAIII HDD/SSD drive
Display	
Graphic Chipset	Intel® UHD Graphics 770
Spec. & Resolution	2 x DP++: 4096 x 2304@60Hz / 5120 x 3200@60Hz 1 x HDMI 2.1b (supported with LSPCON): 8K@60Hz
Audio	
Audio Codec	RealTek ALC888S Audio Codec
Audio Amplifier	RealTek ALC105 Stereo Class-D 2W4Ω
Power Requirement	
Voltage Input Spec	AC 100-240 V in
Power Supply Unit	400W medical 1U ATX power supply
Power Mode	ATX
Ethernet	
LAN Chipset	4 x Intel® i226LM 2.5 Gigabit Controller

Software Support	
OS	Win 10, Win 11, Linux
External I/O	
USB	Front: 2xUSB 2.0 Rear: 4 x USB 3.2 Gen 2 & 4 x USB 3.2 Gen 1
LAN	4 x 2.5 Gigabit Ethernet
Display	1 x HDMI 2.1b 2 x DP++
Antenna	2 x Antenna Mounting with Dust Protection Cover
Mechanical & Environmental	
Construction	Metal + plastic
Color	White
Operating Temp.	0°C ~ 35°C (32°F ~ 95°F)
Storage Temp.	-30C° ~ 70C° (-22°F ~ 158°F)
Operating Humidity	40°C @ 95% Relative humidity, non-condensing
Drop Test	Package drop test:One corner, three edges, six faces ISTA 2A, IEC-60068-2-32
Shock Test	With SSD : 10 Grms, IEC 60068-2-27, half sine, 11ms
Vibration Test	Operating with SSD : 0.5 Grms, IEC 60068-2-64, 5 ~ 500Hz, 0.5hr/axis
Weight	4.8 kg
Dimension (W x L x H)	315 x 272 x 92 mm

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Mechanical Drawing



Ordering Information

P/N	Processor	Memory	Storage	Video Out	USB	LAN	Power Input	Working Temp.
MAB-T660-A1-1R	12/13th Generation Intel® Core™ i3/i5/i7/i9 Processors	2 x SODIMM Up to 64GB Dual Channel DDR5 4800MHz (Non-ECC)	1 x 2.5" SATAIII HDD/SSD drive	2 x DP 1 x HDMI	2 x USB 2.0 (front I/O) 4 x USB 3.2 Gen 2 4 x USB 3.2 Gen 1	4 x 2.5G	AC in	0°C ~ 35°C

Packing List

Item	P/N	Quantity
CPU cooler 0.84A/12V/Fan 91 x 87.5 x 64.6mm	ACC-FAN-170-02R	1
Screw kits		1

Optional Items

Item	P/N
NVIDIA A1000	RCC-GPU-RTXADA-04R
NVIDIA RTX2000E ADA	RCC-GPU-RTXLL-01R
SC710N2-L HDMI2.0 Capture Card	RCC-CAP-PCIE-01R
SC710N1-L 12G-SDI+HDMI2.0 Capture Card	RCC-CAP-PCIE-04R
Intel 82574 LAN Card	RCC-LAN-PCIE-01R
Intel I350AM2 LAN Card	RCC-LAN-PCIE-02R
Intel I210 PoE Card	RCC-POE-PCIE-03R
Intel WIFI 6E module with kits	RCC-WIFI-M2BT-02R
WiFI 6E set ENL-5400PCI PCIe Adapter	RCC-WIFI-PCIE-01R
EU Power Cord	E1702031000R
US Power Cord	E1702031833R
JP Power Cord	E1702031834R
UK Power Cord	E170P060380R
AU Power Cord	E1702031831R
CN Power Cord	E170P060391R

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I/O Overview

