

MAB-T660

Edge AI PC in Compact Size For Space-Constraint Scenarios,
with 400W Medical PSU



Features

- Compact and half in size easy for space-constraint scenarios, like endoscopy integration
- High performance supported by 12/13th Generation Intel® Core™ i3/i5/i7/i9 Processors
- Two half-height PCIe slot (1x PCIe x16 or 2 x PCI-e x 8 via riser card) for flexible expansions
- Support 3 simultaneous high-resolution displays by 2 x DP++, 1 x HDMI 2.1b
- Instant data transmission by 4 high-speed 2.5 GbE LAN ports
- RAID 0, 1 support for data backup of critical clinical data
- Up to 10 USB ports(USB 3.2 Gen2 incl.) for versatile peripheral integration



400W
Medical
PSU



4-LAN
Support



Data
Security



Riser Card
Expansion



HDMI+DP
4K@60Hz

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
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
TPM	EMX-R680P
OS Support	Win 10, Win 11, Linux

Expansion Slot

M.2	1 x M.2 (2230) E-Key, support Wi-Fi module with PCIe x2 Gen 3 & USB 2.0 1 x M.2 (2242/2280) M-Key, support PCI-e x4 Gen 4 SSD (top side)
PCIe	1 x PCI-e x16 Gen 5 or 2 x PCI-e x8 by switch (from CPU)

Storage

Storage	1 x 2.5" SATAIII HDD/SSD drive
---------	--------------------------------

Display

Graphic Chipset	Intel® Integrated 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
Multiple Display	Supports 3 independent display

Front I/O

Power Button	1 x Power Button (w/ LED indicator)
USB Port	1 x USB 2.0

Rear I/O

USB Port	4 x USB 3.2 Gen 2 4 x USB 3.2 Gen 1
LAN Port	4 x 2.5GbE by RJ-45
HDMI	1 x HDMI 2.1b
DP	1 x DP++
Audio	1 x Mic-in, 1 x Line-out
Antenna	2 x Antenna
Power Input	AC Input

Audio

Audio Codec	Realtek ALC888S Audio Codec
Audio Amplifier	RealTek ALC105 Stereo Class-D 2W4Ω

Ethernet

LAN Chipset	4 x Intel® i226LM 2.5 GbE controller
-------------	--------------------------------------

Power Requirement

Power Supply Unit	400W medical 1U ATX power supply
Power Mode	ATX
Power Input	AC 100-240V

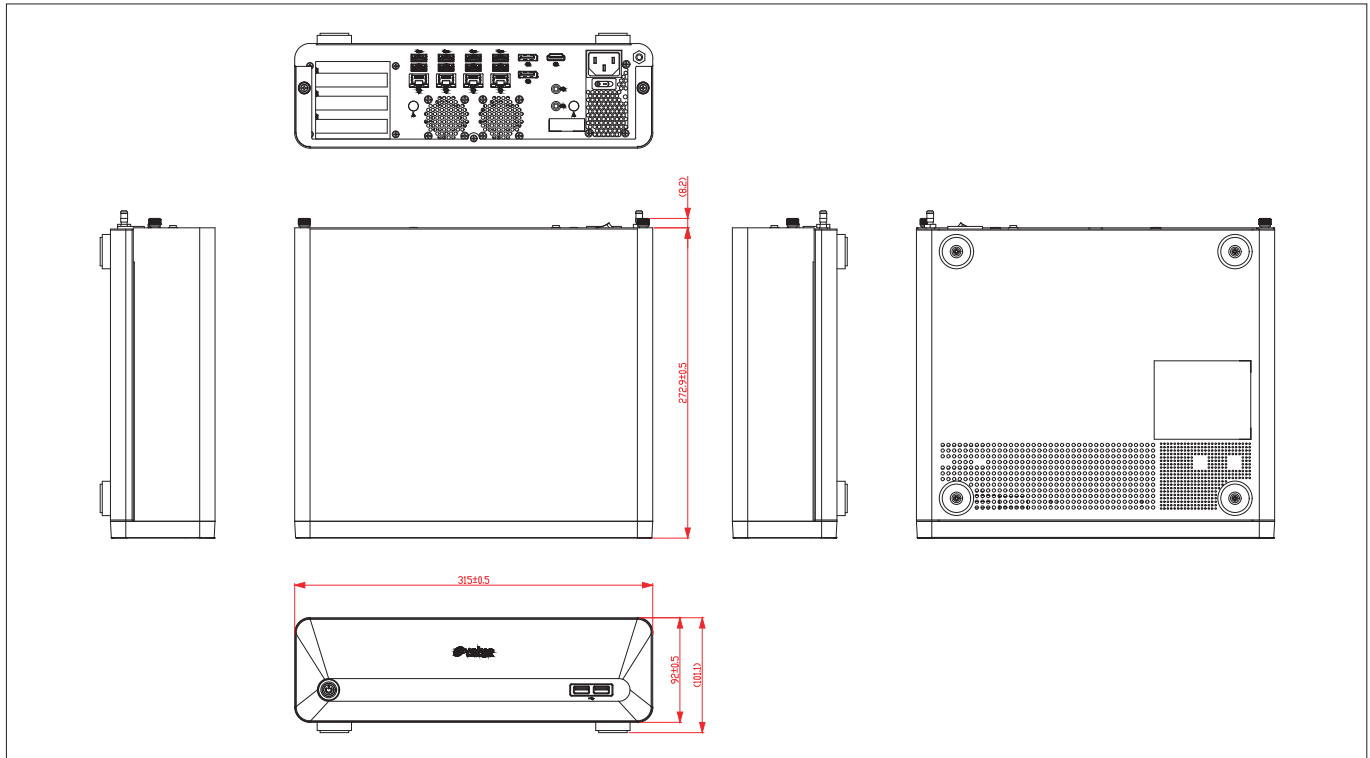
Certification

Safety	ITE CE/FCC Class A
--------	--------------------

Mechanical & Environmental

Dimension (mm)	315 x 272 x 92
Weight (kg)	4.8
Color	White
Operating Temp.	0°C ~ 35°C (32°F ~ 95°F)
Operating Humidity	40°C @ 95% Relative humidity, non-condensing
Storage Temp.	-30°C ~ 70°C (-22°F ~ 158°F)
Drop Test	Package drop test: One corner, three edges, six faces IATA 2A, IEC-60068-2-32
Vibration Test	Operating with SSD : 0.5 Grms, IEC 60068-2-64, 5 ~ 500Hz, 0.5hr/axis
Shock Test	With SSD : 10 Grms, IEC 60068-2-27, half sine, 11 ms
Construction	Metal + plastic

Mechanical Drawing



Ordering Information

P/N	Processor	Memory	Storage	COM	USB	LAN	Power Input	Working Temp.
MAB-T660-A1-1R	LGA 1700 socket supports 12th Gen Alder Lake/ 13th Gen Raptor Lake Intel® Core™ i9/7/5/3 processor	2 x SODIMM dual channel DDR5 4800MHz, up to 64GB, Non-ECC DRAM support	1 x 2.5" SATAIII HDD/ SSD drive	0	2 x USB 2.0 (front I/O) 4 x USB 3.2 Gen 2 4 x USB 3.2 Gen 1	4	ATX	0°C ~ 35°C

Packing List

Item	Quantity
MAB-T660 System	1
Screws for HDD installation (M3x8mm)	4
Shockproof rubber for HDD installation	4
Screws (M2x2mm-1pc, M3x4mm-1pc) and standoff (F/M M2x3.45/M2x2mm-1pc) for M.2 installation	3
DRAM rubber strap	2

Optional Items

Item	P/N
NVIDIA RTX A1000 GPU (8GB)	RCC-GPU-RTXADA-04R
NVIDIA RTX 2000 ADA GPU (16GB)	RCC-GPU-RTXADA-03R
NVIDIA RTX 4000 SFF ADA (20GB)	RCC-GPU-RTXADA-02R
Yuan SC710N2-L HDMI 2.0 Capture Card (4K), 2 x HDMI	RCC-CAP-PCIE-01R
Yuan SC400N4 HDMI Capture Card (1080P), 4 x HDMI	RCC-CAP-PCIE-02R
Yuan SC400N2-L HDMI Capture Card (1080P), 2 x HDMI	RCC-CAP-PCIE-04R
Yuan SC410N4 HDMI 2.0 Capture Card (4K), 4 x HDMI	RCC-CAP-PCIE-05R
Intel 82574 LAN Card, UPMOST D82574-1RJ	RCC-LAN-PCIE-01R
Intel I350AM2 LAN Card, UPMOST SI350AM2-2RJ (A)	RCC-LAN-PCIE-02R
Intel I210AT PoE Card, UPMOST DI210-1RJ-POE	RCC-POE-PCIE-01R
Intel Wi-Fi 6E AX210 with kits & bracket	RCC-WIFI-M2BT-01R
WiFi set ENL-5400PCI	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

MAB-T660

Edge AI PC in Compact Size For Space-Constraint Scenarios,
with 400W Medical PSU

I/O Overview

