



Features

- 12/13th Generation Intel® Core™ i3/i5/i7/i9 Processors
- Intel® R680E PCH
- 4 x Memory Socket, Max. Up to 128GB DDR5 4400MHz with ECC Support
- 4 x DP++, 2 x 2.5 Gigabit Ethernet
- 6 x USB 3.2 Gen 2, 1 x USB 3.2 Gen 2 Type-C at Rear, 2 x USB at Front
- 2 x Storage, 2 x 2.5" Drive Bay, Optional 2 x 3.5" Drive Bay
- 1 x Gen 5 PCIe x16, 2 x Gen 4 PCIe x4, 1 x Gen 3 PCIe x4



ATX Power



Medical Grade



IPX1 Grade Protection



Expansion Slot

Specifications

System Information

Processor	LGA 1700 socket supports 12th Gen Alder Lake/ 13th Gen Raptor Lake Intel® Core™ i9/i7/i5/i3, Pentium®, Celeron® processors up to 16 Cores 24 Threads Hybrid
Platform Controller Hub	Intel® R680E PCH
System Memory	4 x DIMM slots support Dual Channel DDR5 memory speed up to 4400MHz with UDIMM, up to 128GB, with ECC support
BIOS	Socket type 256Mb SPI BIOS
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 0, 1, 5, 10
TPM	Support onboard TPM 2.0
iAMT	Intel® Active management technology 16
SBC	RX680R

Expansion

M.2	1 x M.2 M-Key 2242/2280/22110 NVMe (Gen 4 PCIe x4 + SATA III) 1 x M.2 M-Key 2242/2280/22110 NVMe (Gen 3 PCIe x4 + SATA III) 1 x M.2 E-Key 2230 with CNVi support (PCIe x1 + USB 2.0)
PCIe	1 x Gen 5 PCIe x16 2 x Gen 4 PCIe x4 (x16 physical yellow) 1 x Gen 3 PCIe x4 open ended

Storage

Storage	2 x 2.5" SATAIII HDD/SSD drive (2 x 3.5" SATAIII HDD/SSD drive as option)
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Display

Graphic Chipset	Intel® Integrated UHD Graphic with Xe Architecture (CPU dependent)
Spec. & Resolution	4x Dual Mode DP 1.4a (Max. Resolution: 3840X2160@60Hz)
Multiple Display	Supports 4 independent display

Audio

Audio Codec	Realtek HD audio
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Power Requirement

Power Supply Unit	500W medical 1U ATX power supply
Power Mode	AT/ATX mode (default: ATX mode)

Ethernet

LAN Chipset	LAN1: Intel® I225-LM/I226-LM 2.5 GbE Controller LAN2: Intel® I225-LM/I226-LM 2.5 GbE Controller
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Software Support

OS	Win 10, Win 11, Linux
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Certification

Certification Information	ANSI AAMI ES60601-1:2005/A2: 2021 3.2. CAN/CSA-C22.2 NO. 6060101 :14/A2:22 3.2. IEC 60601-1:2005/A1:2012/A2:2020 3.2. IEC 60601-1-2:2014/A1: 2020 4.1. IEC 62368-1: 2018 3.0. IEC 60601-1-6 : 2010/A1: 2013/A2: 2020 3.2. EN 60601-1:2006+A2:2021. EN 60601-1-2: 2015+A1:2021. EN IEC 62368-1: 2020+A11:2020. BS EN 60601-1: 2006+A2: 2021. BS EN 60601-1-2: 2015+A1:2021. BS EN IEC 62368-1 :2020+A11:2020. 47CFR FCC part 15 subpart B. ICES-003 issue 7 Oct. 2020. ISO 14971 3rd edition, December 2019.
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External I/O

USB	2 x USB 2.0 (front I/O) 6 x USB 3.2 Gen 2x1 ports 1 x USB 3.2 Gen 2x2 type-C
LAN	2 x RJ45
Audio	Line-out, Mic-in
Display	4 x DP++

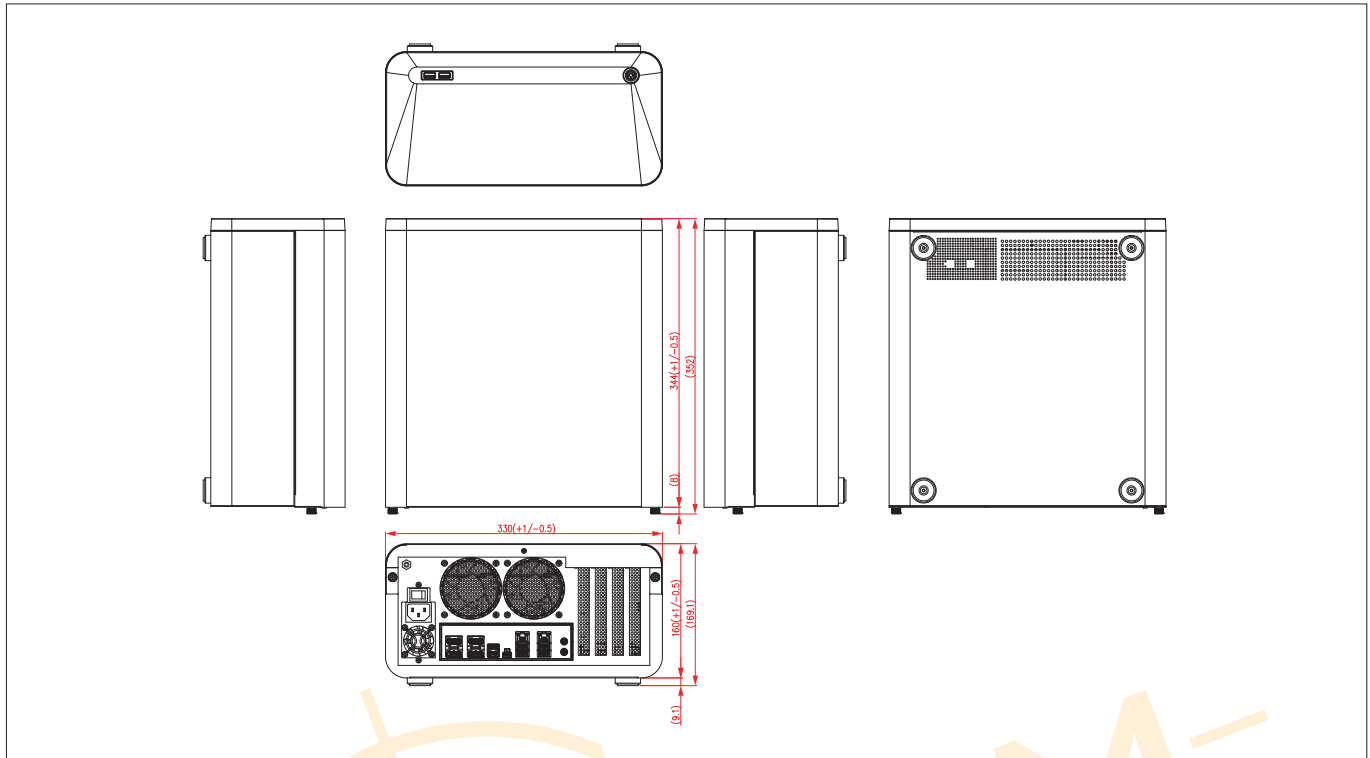
Mechanical & Environmental

Operating Temp.	0°C ~ 40°C (32°F ~ 104°F)
Storage Temp.	-30°C ~ 70°C (-22°F ~ 158°F)
Operating Humidity	40°C @ 95% Relative humidity, non-condensing
Dimension (W x L x H)	330 x 344 x 160 mm
Weight	7 kg
Vibration Test	Operating with SSD : 0.5 Grms, IEC 60068-2-64, 5 ~ 500Hz, 0.5hr/axis
Shock Test	With SSD : 10 Grms, IEC 60068-2-29, half sine, 11ms
Drop Test	One corner, three edges, six faces ISTA 2A, IEC-60068-2-32
IP Rating	IPX1 grade protection
Color	White
Construction	Metal + plastic

MAB-T600-B1

MAB-T600-B1 GPU card Medical AI Box PC
with Intel 12/13th Gen Core I Processors

Mechanical Drawing



Ordering Information

P/N	Processor	Memory	Storage	COM	USB	LAN	Power Input	Working Temp.	OS Support
MAB-T600-B1-1R	LGA 1700 socket supports 12th Gen Alder Lake/ 13th Gen Raptor Lake Intel® Core™ i9/7/5/3, Pentium®, Celeron® processors up to 16 Cores 24 Threads Hybrid	4 x DIMM up to 128GB Max Dual Channel DDR5 5600 MHz with ECC Support	2 x 2.5" SATAIII HDD/SSD drive (2 x 3.5" SATAIII HDD/SSD drive as option)	0	2 x USB 2.0 (front I/O) 6 x USB 3.2 Gen 2x1 ports 1 x USB 3.2 Gen 2x2 type-C	2	ATX	0°C~ 40°C	Win 10, Win 11, Linux

Packing List

Item	P/N	Quantity
Screw-Bind M3x8mm	E1930030803R	8
Screw-Flat 32x8mm	E19300B0800R	8
Rubber for shockproof	E199RK00010R	8
CPU cooler 0.84A/12V/Fan 91x87.5x64.6mm	ACC-FAN-170-02R	1

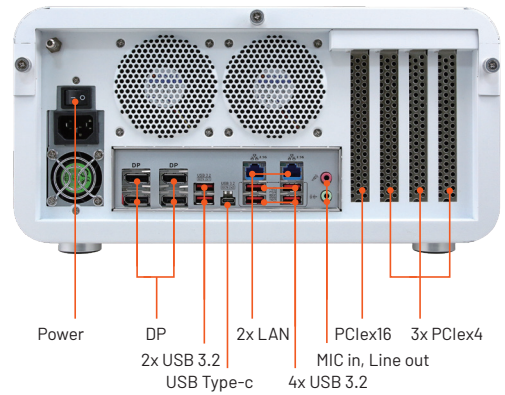
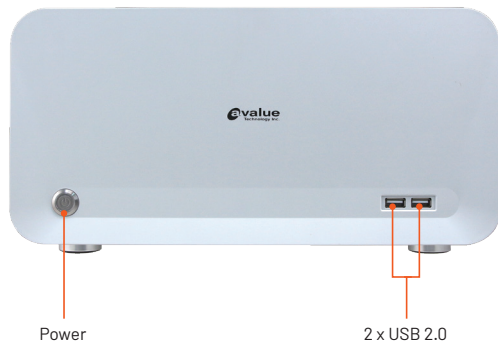
Optional Items

Item	P/N
GPU NVIDIA T1000 8GB graphic card	RCC-GPU-T1000-01R
NVIDIA RTX2000 ADA	RCC-GPU-RTXADA-01R
NVIDIA RTX4000 ADA	RCC-GPU-RTXADA-02R
SC710N2-L HDMI Capture Card	RCC-CAP-PCIE-01R
SC400N4 HDMI Capture Card	RCC-CAP-PCIE-02R
SC400N2-L HDMI Capture Card	RCC-CAP-PCIE-04R
SC410N4 HDMI Capture Card	RCC-CAP-PCIE-05R
Intel 82574 LAN Card	RCC-LAN-PCIE-01R
Intel I350AM2 LAN Card	RCC-LAN-PCIE-02R
Intel I210 PoE Card	RCC-POE-PCIE-01R
Intel I350 PoE Card	RCC-POE-PCIE-02R
Intel WIFI module with kits	RCC-WIFI-M2BT-01R
WiFi set ENL-5400PCI	RCC-WIFI-PCIE-01R

MAB-T600-B1

MAB-T600-B1 GPU card Medical AI Box PC
with Intel 12/13th Gen Core I Processors

I/O Overview



TEXIM-
EUROPE

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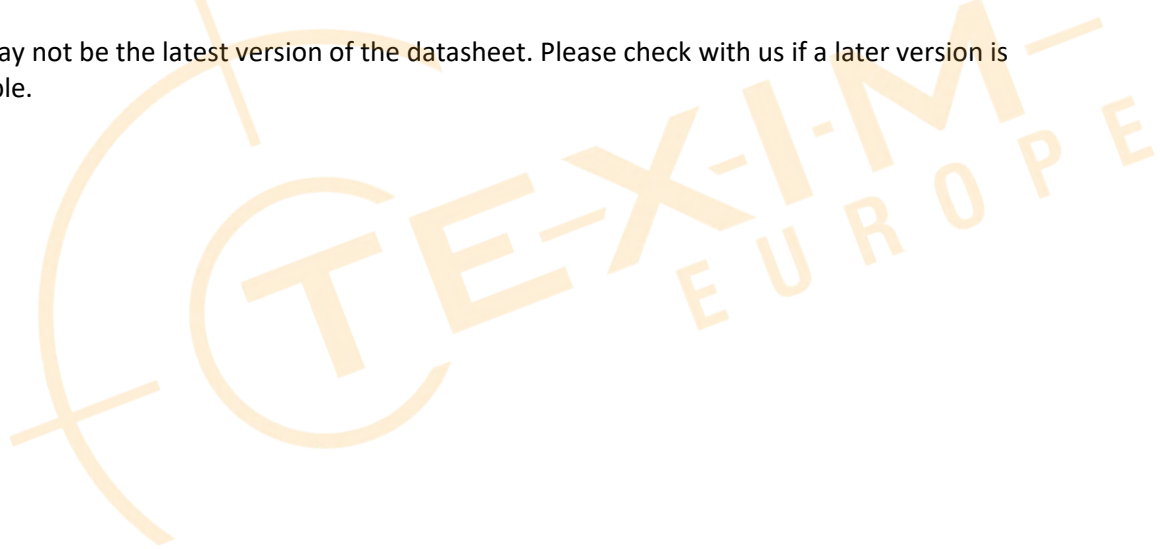
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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