



Features

- 12/13th Generation Intel® Core™ i3/i5/i7/i9 Processors
- Intel® H610E Chipset
- 2 x Memory Socket, Max. Up to 64GB DDR5 4800MHz/5600MHz
- 1 x HDMI, 2 x DP++, 1 x 1Gigabit Ethernet, 1 x 2.5 Gigabit Ethernet
- 4 x USB 3.2 & 2 x USB 2.0 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, 3 x Gen 3 PCIe x1



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 Processor up to 16 Cores 24 Threads Hybrid
Platform Controller Hub	Intel® H610E PCH
System Memory	2 x DIMM slots support Dual Channel DDR5 memory speed up to 4800/5600MHz (CPU dependent) with UDIMM, up to 64GB
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
TPM	Support onboard TPM 2.0
SBC	RX610H

Expansion

M.2	1 x M.2 M-Key 2242/2280/22110 NVMe (PCIe x4 + SATA III) 1 x M.2 E-Key 2230 with CNVi support (PCIe x1 share with slot4 + USB 2.0)
PCIe	1 x Gen 5 PCIe x16 (x16 physical black)(slot 1) 1 x Gen 3 PCIe x1 (x4 physical open ended)(slot 2) 2 x Gen 3 PCIe x1 (x16 physical yellow)(slot 3 & 4)

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	DP 1.4a (Max. Resolution: 3840X2160@60Hz) HDMI 2.0b (Max. Resolution: 3840X2160@60Hz)
Multiple Display	Supports 3 independent display

Audio

Audio Codec	Realtek HD audio
Audio Amplifier	6W Per Channel Amplifier

Power Requirement

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

Ethernet

LAN Chipset	LAN1: Intel® I219-V ethernet controller LAN2: Intel® I225-LM ethernet 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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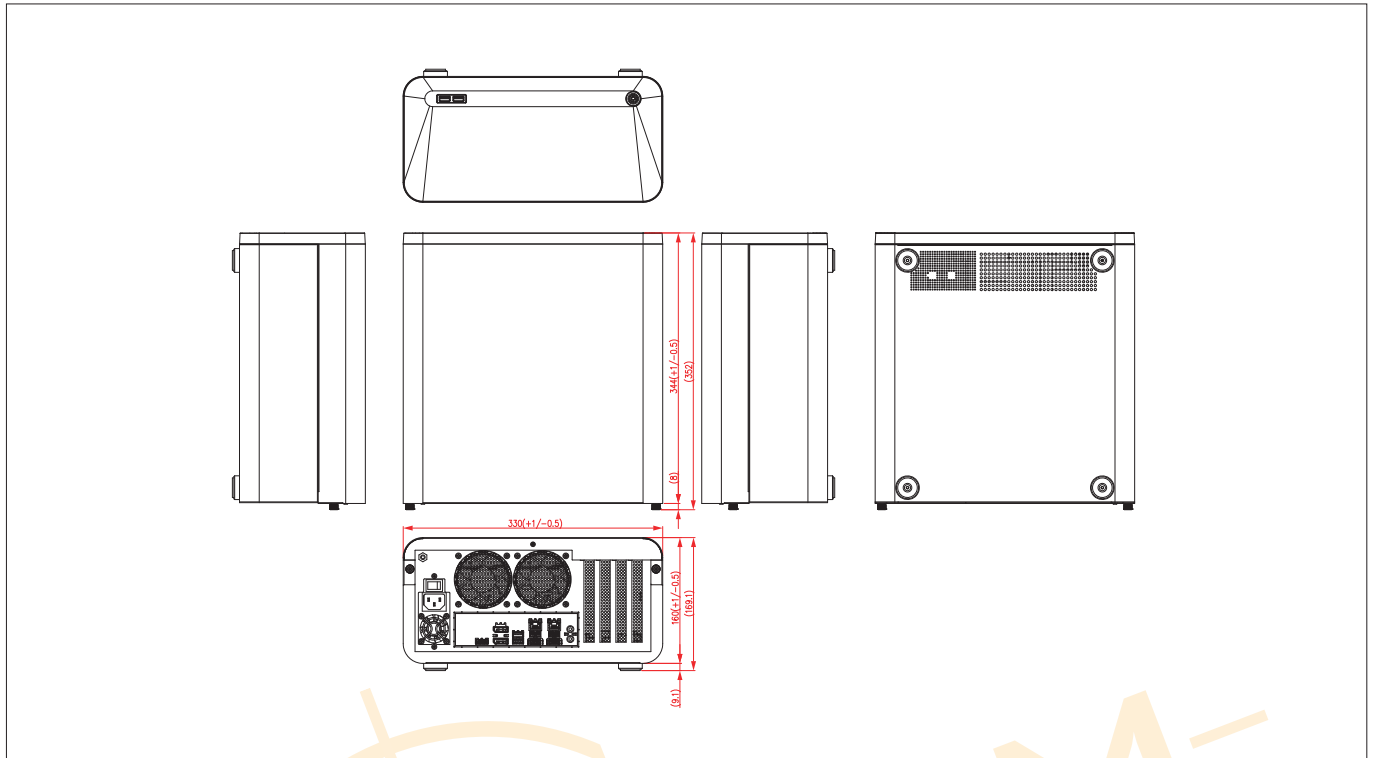
External I/O

USB	2 x USB 2.0 (front I/O) 2 x USB 2.0 type A 4 x USB 3.2 type A
LAN	2 x RJ45
Audio	Line-out, Mic-in
Display	1 x HDMI 2 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	7kg
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

Mechanical Drawing



Ordering Information

P/N	Processor	Memory	Storage	COM	USB	LAN	Power Input	Working Temp.	OS Support
MAB-T600-A1-1R	LGA 1700 Socket supports 12th Gen Alder Lake/ 13th Gen Raptor Lake Intel® Core™ i9/7/5/3, Pentium, Celeron Processor up to 16 Cores 24 Threads Hybrid	2 x DIMM slots support Dual Channel DDR5 memory speed up to 4800MHz/5600MHz with UDIMM, up to 64GB	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) 2 x USB 2.0 type A 4 x USB 3.2 type A	2	ATX	0°C~ 40°C	Win 10, Win 11, Linux

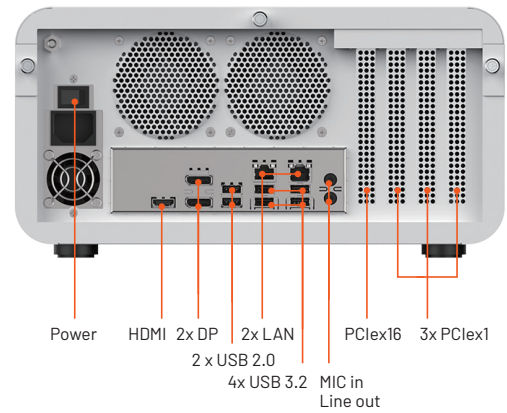
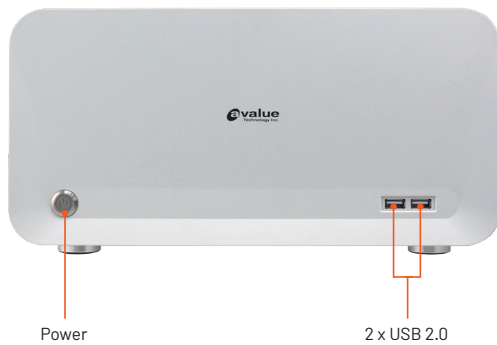
Packing List

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

I/O Overview



TEXIM-
EUROPE

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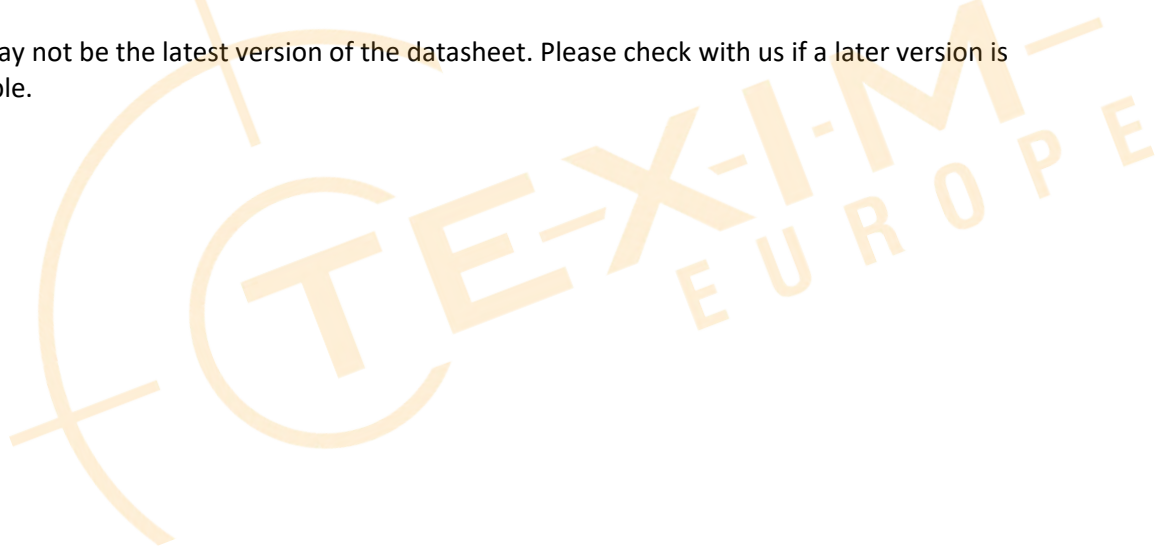
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

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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