

MAB-T600-B1



Product Features

- 12/13th Generation Intel® Core™ i3/i5/i7 Processors
- 4-Memory Socket, Max. Up to 64GB DDR5 4800MHz with ECC Support
- 6 x USB 3.2 Gen 2, 1 x USB 3.2 Gen 2 Type-C at Rear, 2-USB at Front
- 1 x Gen 5 PCIe x16, 2 x Gen 4 PCIe x4 1 x Gen 3 PCIe x4
- Intel® R680E PCH
- 4-DP++, 2-2.5 Gigabit Ethernet
- 2-Storage, 2-2.5" Drive Bay, Optional 2-3.5" Drive Bay

Specification

System Information

Processor	LGA 1700 socket supports 12th Gen Intel® Alder Lake/13th Gen Intel® Raptor Lake Intel® Core™ i9, Core™ i7/i5/i3, Pentium, Celeron Processor up to 16 Cores 24 Threads Hybrid
Platform Controller Hub	Intel® R680E PCH
System Memory	4 x DIMM up to 128GB max dual channel DDR5 4400 MHz with ECC support
I/O Chipset	Nuvoton®
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	Supports RAID 0, 1
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 x 1 + 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" HDD/SSD drive
(2 x 3.5" HDD/SSD drive as option)

Display

Graphic Chipset Intel® Integrated UHD Graphic with Xe Architecture (CPU dependent)

Spec. & Resolution DP 1.4a (Max. Resolution: 3840X2160@60Hz)

Multiple Display Supports 4 independent display

Audio

Audio Codec Realtek HD audio codec

Power Requirement

Power Supply Unit 500W medical 1U ATX power supply

Power Mode AT/ATX mode (default: ATX mode)

Ethernet

LAN Chipset Intel® I225-LM/I226-LM 2.5 Gigabit ethernet controller

Software Support

OS Win 10, Win 11, Linux

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.

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

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

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

Ordering Information

Ordering Information	MAB-T600-B1-1R STD chassis Kit with RX680R MB & PSU MAB-T600-B1-1R RX680R MB /i9-13900E/ 32G ram/ w/o storage MAB-T600-B1-2R RX680R MB /i7-13700E /32G ram/ w/o storage RCC-GPU-T1000-01R GPU NVIDIA T1000 8GB graphic card RCC-GPU-A5000-01R GPU NVIDIA RTX A5000 24GB graphic card RCC-GPU-A4000-01R GPU NVIDIA RTX A4000 16GB graphic card RCC-CAP-SC710-01R SC710N2-L HDMI2.0 capture card
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