

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/13th/14th Gen Intel® Core™ i 9/7/5/3 Processor, codenamed Alder Lake/Raptor Lake/Raptor Lake Refresh
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 x 1 + USB 2.0)
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PCIe	1 x Gen 5 PCIe x16 2 x Gen 4 PCIe x4 (x16 physical yellow) 1 x Gen 3 PCIe x4 open ended
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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.

Certifications above are for our standard MAB-T600-B1. Adding lan card and using SSD from Philips' list will cause extra fee of certification renewal.

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

Ordering Information

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MAB-T600-B1-1R STD Chassis Kit with RX610H MB & PSU & CPU Fan
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

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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