

# SYS-2010M8554T

2U Industrial System based on Intel® Core™  
i9/i7/i5/i3/Celeron/Pentium 14<sup>th</sup>/13<sup>th</sup>/12<sup>th</sup> Generation  
Processor with 12x USB/ 6x COM Ports/ VGA/ HDMI/  
Dual Gigabit LAN



## FEATURES

- Intel® 14<sup>th</sup>/13<sup>th</sup>/12<sup>th</sup> Core™ i9/i7/5/3/Celeron/Pentium Processor in Socket 1700
- Four DDR4 DIMM RAM slot, 3200MHz, up to 128GB, support ECC memory
- Intel® Q670 Express chipset
- Up to 2x Gigabit Ethernet Ports
- Integrated Intel® HD Graphics with 1x VGA, 2x HDMI Port connectors
- Realtek® ALC897 High Definition Audio chip on-board
- Multi I/O: 12 x USB, 6 x COM, 4 x SATA Ports & 1x M.2 NVMe/SATA
- Expansion Slot: 1x PCIe Gen.4×16 slots, 2x PCIe Gen.4×4 slots, 4x PCI slots.

## Introduction

Compact Industrial System based on the Intel® Q670 Express Chipset, supports Intel® 14<sup>th</sup>/13<sup>th</sup>/12<sup>th</sup> Generation Core™ i9/i7/5/3 Processor. Integrated with Intel® HD Integrated Graphic Controller, 6x Com Port, 12x USB, 4 x SATA Ports and 1x M.2 NVMe/SATA.

Compact Industrial System is ideal for developing high-performance systems for Industrial Automation, Vision System, AI System.

## Specification

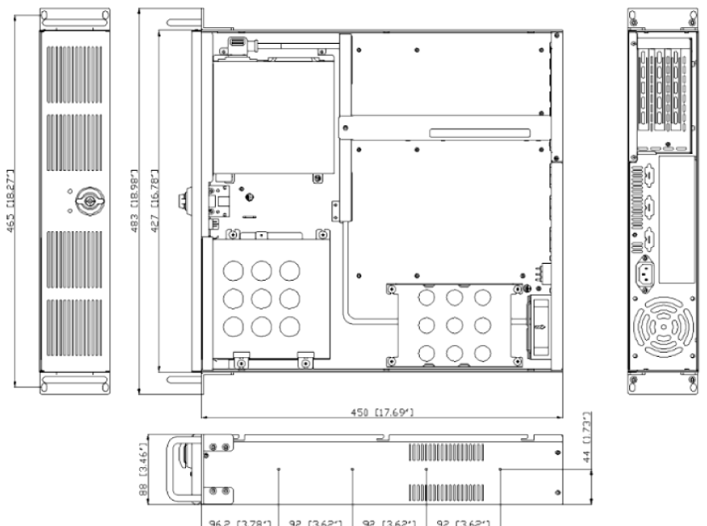
| System         |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor      | <ul style="list-style-type: none"><li>Intel® 14<sup>th</sup>/13<sup>th</sup>/12<sup>th</sup> (Raptor Lake-S/Alder Lake-S) LGA1700 Socket Core i9/i7/i5/i3/Pentium/Celeron Processor (Max. 125W TDP)</li><li>• AMI 128Mb Flash ROM</li></ul>                                                                                                                                                                                          |
| BIOS           |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| System Memory  | <ul style="list-style-type: none"><li>• 4x DDR4 DIMM RAM slot, 3200MHz, up to 128GB, support ECC memory</li></ul>                                                                                                                                                                                                                                                                                                                    |
| Chipset        | <ul style="list-style-type: none"><li>• Intel® Q670 chipset</li></ul>                                                                                                                                                                                                                                                                                                                                                                |
| Video          | <ul style="list-style-type: none"><li>• Intel® HD Graphics, support DirectX12.1, OpenGL4.5, 4k display</li><li>• 1x VGA, support resolution max. 1920X1200@60Hz</li><li>• 1x HDMI1.4, support resolution max. 4096x2160 @24Hz</li></ul>                                                                                                                                                                                              |
| Ethernet       | <ul style="list-style-type: none"><li>• 2x Intel® I210AT Gigabit LAN port, support Wake On LAN / PXE</li></ul>                                                                                                                                                                                                                                                                                                                       |
| On Board I/O   | <ul style="list-style-type: none"><li>• 6x Serial ports (COM1/2 support RS232/422/485)</li><li>• 8x SATA3.0 HDD port,transmission rate up to 6Gbps, Support RAID 0,1,5,10</li><li>• 1x M.2 slot, support M.2 Key M 2280 NVMe PCIe X4 standard SSD</li><li>• 12 USB: 4x USB3.2 Gen 2, 2x USB 3.0, 1x TYPE-E USB3.0, 1x Stand USB2.0, 4x USB2.0</li><li>• 1x LPT port, 1x TPM port, 1x SIM slot</li><li>• 1x PS/2 KB/MS port</li></ul> |
| Expansion      | Check with Sales for Expansion option                                                                                                                                                                                                                                                                                                                                                                                                |
| Watchdog Timer | <ul style="list-style-type: none"><li>• Programmable watchdog timer for 1~255 seconds.</li></ul>                                                                                                                                                                                                                                                                                                                                     |
| CMOS           | <ul style="list-style-type: none"><li>• On-board RTC with 242 bytes of Battery-back CMOS RAM.</li></ul>                                                                                                                                                                                                                                                                                                                              |
| Audio          | <ul style="list-style-type: none"><li>• HD audio: ALC897 7.1+2 channel high definition audio controller</li><li>• Support Line-in, Line-out, MIC</li></ul>                                                                                                                                                                                                                                                                           |
| Power          | <ul style="list-style-type: none"><li>• One 24pins power connector for system power.</li><li>• Two ATX-12V 8-pins connector for CPU power.</li><li>• Support both AT and ATX mode.</li></ul>                                                                                                                                                                                                                                         |
| Cooling        | <ul style="list-style-type: none"><li>• One CPU cooling FAN connector nearby CPU socket</li><li>• Two system fan connectors for system cooling</li></ul>                                                                                                                                                                                                                                                                             |
| System         |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Drive bays     | Totally 4 drive bay:<br>2x 5.25" CD and 2 x 3.5" HDD bay<br>Drive bay equipped with anti-vibration function                                                                                                                                                                                                                                                                                                                          |
| Front Panel    | Two USB 2.0 ports at front bezel                                                                                                                                                                                                                                                                                                                                                                                                     |
| Form Factor    | 12" x 9.6" (305mm x 245mm)                                                                                                                                                                                                                                                                                                                                                                                                           |
| Fan            | Two 60mm intake fan                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Power Supply   | Industrial Auto Ranging ATX 600W Power Supply                                                                                                                                                                                                                                                                                                                                                                                        |
| Dimension      | 483(D) x 450(W) x 88(H) mm                                                                                                                                                                                                                                                                                                                                                                                                           |
| Weight         | N.W: 8.2 KG.W:9.2 KGS                                                                                                                                                                                                                                                                                                                                                                                                                |

## Mechanical & Environment

|                       |                                         |
|-----------------------|-----------------------------------------|
| Operating Temperature | 0°~50°C                                 |
| Storage Temperature   | -40°~70°C                               |
| Relative Humidity     | 5~95%, non-condensing                   |
| Storage Humidity      | 5% ~ 95%                                |
| Altitude              | 10,000 Feet (3000 m)                    |
| Vibration (Operating) | 1.5G Max                                |
| Shock                 | 10G peak acceleration (10Msec duration) |

## Ordering Information

|                      |                                                                                                                                                                    |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SYS-2010M8554T-C1-BB | 2U Industrial System based on Intel® Core™ i9/i7/i5/i3/Celeron/Pentium 14th/13th/12th Generation Processor with 12x USB/ 6x COM Ports/ VGA/ HDMI/ Dual Gigabit LAN |
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