

Modular Industrial Computer with 10th/11th Gen Intel® Core™ i3/i5/i7/i9, Pentium®, Celeron® Processor

## Overview

The MIC-8300 is a modular industrial computer with 10th/11th Gen Intel® Core™ i3/i5/i7/i9, Pentium®, and Celeron® processors. It offers extensive connectivity options, expansion capabilities, control interfaces, and flexible display configurations, making it a versatile and reliable choice for industrial applications.

## Features

- 10th/11th Gen Intel® Core™ i3/i5/i7/i9, Pentium®, Celeron® Processor
- 6 x COM(5 x RS-232/485), 3 x LAN, 8 x USB
- 32 x GPIO, 2 x CAN2.0B
- 1 x DP, 1 x VGA, 1 x HDMI
- 2 x M.2 M-Key 2280, 1 x M.2 E-Key 2230, 1 x M.2 B-Key 3052
- 24V DC power input



Operating Temp.

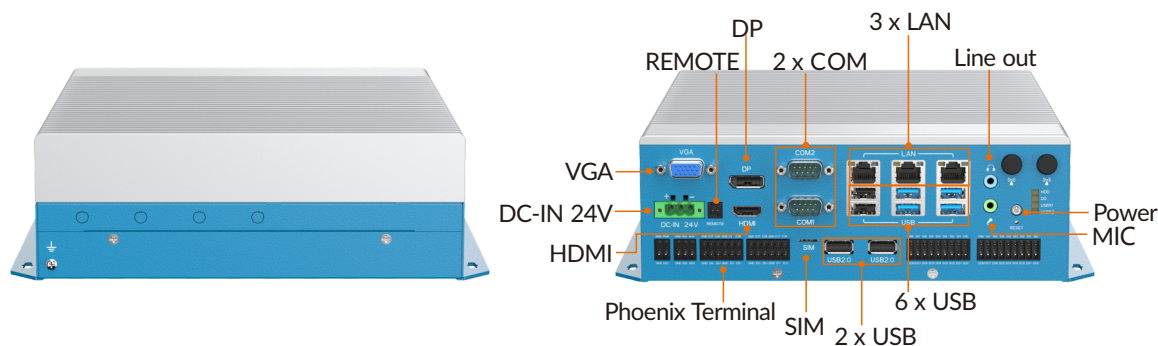


Power Input



Fanless

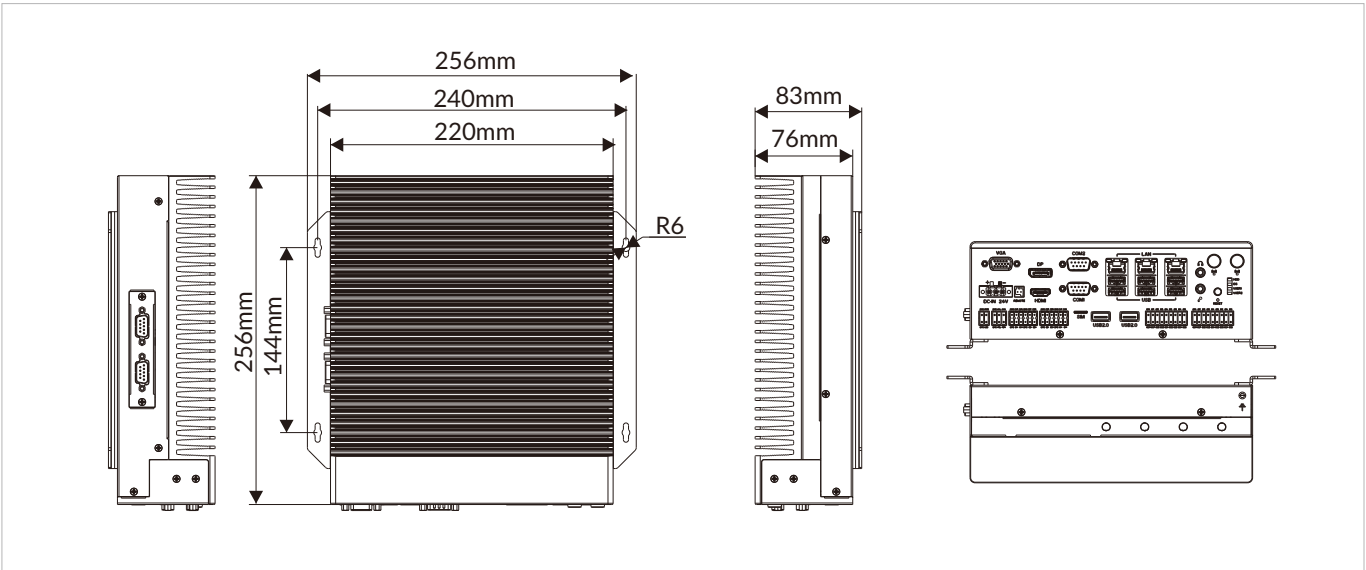
## I/O Interfaces



## Specifications

|                         |                                                            |
|-------------------------|------------------------------------------------------------|
| <b>System</b>           |                                                            |
| CPU                     | Comet lake S i3/i5/i7/i9                                   |
| CPU TDP                 | 65W                                                        |
| Chipset                 | H420E                                                      |
| Memory                  | 2 x DDR4 SO-DIMM up to 64GB                                |
| Storage                 | 2 x M.2 2280 SATA                                          |
| BIOS                    | AMI 128Mbit SPI Flash                                      |
| TPM                     | 1 x SPI (optional)                                         |
| Watchdog Timer          | Software programmable supports 256 levels system reset     |
| <b>I/O Ports</b>        |                                                            |
| USB Port                | 4 x USB 2.0, 4 x USB3.0                                    |
| Serial Port             | 6 x COM (5xRS-232/485)                                     |
| Ethernet                | 1 x Intel® I219-LM, 2 x Intel® I210-AT                     |
| Display Port            | 1 x DP, 1 x VGA, 1 x HDMI                                  |
| SIM Card Slot           | 2 x SIM                                                    |
| CAN Bus                 | 2 x CAN2.0B with isolation                                 |
| GPIO                    | 32 x GPIO with isolation                                   |
| Antenna Hole            | 6 x SMA-type                                               |
| <b>Expansion Slot</b>   |                                                            |
| M.2                     | 2 x M.2 M-Key 2280, 1 x M.2 E-Key 2230, 2 x M.2 B-Key 3052 |
| <b>RF Communication</b> |                                                            |
| Wi-Fi                   | 1 x M.2 2230 E-Key (PCIe AxMac Wi-Fi 6)                    |
| Cellular                | 1 x M.2 3052 B-Key (USB3.0)                                |
| Bluetooth               | 1 x M.2 2230 E-Key (PCIe AxMac Wi-Fi 6)                    |
| GNSS                    | 1 x M.2 3052 B-Key (USB3.0)                                |
| <b>Audio</b>            |                                                            |
| Audio                   | Mic in, line out                                           |
| <b>Power</b>            |                                                            |
| Remote Power On/Off     | 4-Pin remote                                               |
| DC Input                | 24VDC                                                      |
| Input Type              | 1 x 3-pin terminal block connector                         |
| Power Mode              | AT/ATX                                                     |
| <b>Operating System</b> |                                                            |
| Windows                 | Windows 10/11                                              |
| Linux                   | Ubuntu                                                     |
| <b>Mechanical</b>       |                                                            |
| Dimensions (WxDxH)      | 220 x 256 x 76mm (8.66 x 10.08 x 2.99 inches)              |
| Weight (N.W.)           | 4.3kg (9.48 lb)                                            |
| Mounting                | Wall-mount                                                 |
| Material                | Aluminum alloy                                             |
| <b>Environment</b>      |                                                            |
| Operating Temperature   | -10 to 50°C (14 to 122°F, with SSD Airflow 0.7m/s)         |
| Storage Temperature     | -40 to 80°C (-40 to 176°F)                                 |
| Relative Humidity       | 10% to 95% (non-condensing)                                |
| <b>Certification</b>    |                                                            |
| EMC                     | CE, FCC Class A                                            |

Dimensions



Ordering Information

| Part No. | Description                                                                                  |
|----------|----------------------------------------------------------------------------------------------|
| MIC-8300 | 3 x LAN, 6 x COM(5 x RS-232/485), 8 x USB, 32 x GPIO, 2 x CAN2.0B, 1 x DP, 1 x VGA, 1 x HDMI |