# MIC-9000/MIC-9011/MIC-9022/MIC-9022G

Modular Industrial Computer with 14th–12th Gen Intel® Core™ i7/i5/i3 CPU, up to 4x PCIe/PCI, 3x LAN, 2x COM, 6x USB

## Overview

The Darveen MIC-9000 Series is a high-performance modular industrial computer powered by the latest 14th–12th Gen Intel® Core™ i7/i5/i3 processors, delivering exceptional computing performance for advanced industrial workloads. The MIC-9000 Series provides rich connectivity with 3 GbE LAN, 2 COM, 6 USB, VGA, HDMI, and DisplayPort interfaces, along with wireless modules including Wi-Fi, 4G LTE, and 5G. To meet diverse application needs, the series offers multiple configurations: MIC-9000 with no expansion, MIC-9011 with 1 PCI and 1 PCIe x16 slots, and MIC-9022 with 2 PCI, 1 PCIe x16, and 1 PCIe x4 slots. In addition, the MIC-9022G can accommodate a GPU card up to 300W to accelerate AI workloads, making it ideal for Industrial IoT, machine vision, and factory automation applications.

## Features

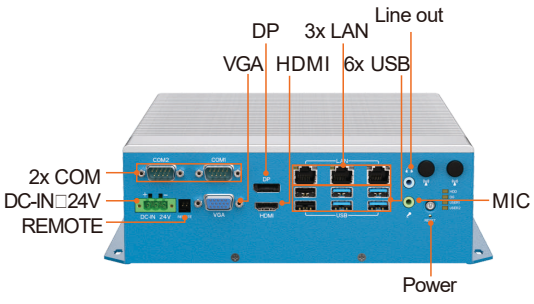
- 14th-12th Gen Intel® Core™ i7/i5/i3 processor
- PCIe/PCI
  - MIC-9011: 1x PCI, 1x PCIe x16
  - MIC-9022 & MIC-9022G: 2x PCI, 1x PCIe x16, 1x PCIe x4
- A GPU card support up to 300W (MIC-9022G)
- 2x COM, 3x GbE LAN, 6x USB
- 1x DP, 1x VGA, 1x HDMI
- 2x M.2 M-Key 2280, 1x M.2 E-Key 2230
- 24V DC-IN



Wide Temperature | Rich I/O | Customizable I/O Board | Cable-less | PCIe/PCI Expansion

## I/O Interfaces

MIC-9000

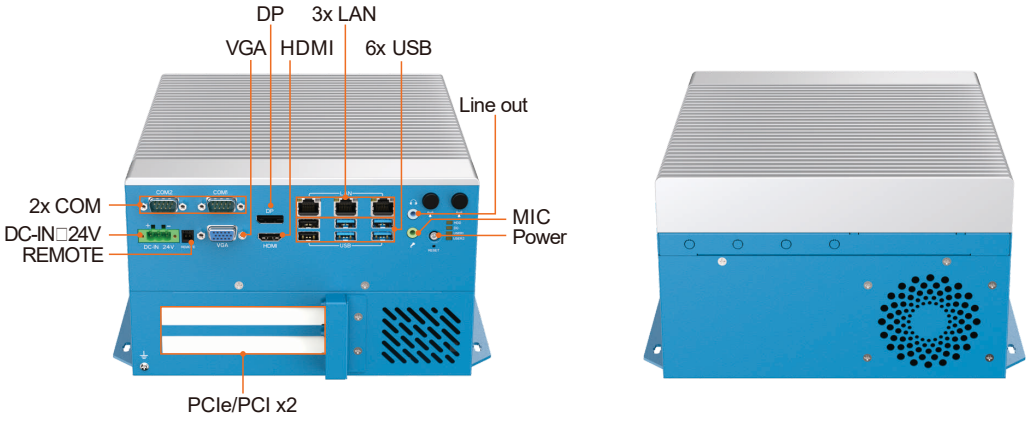




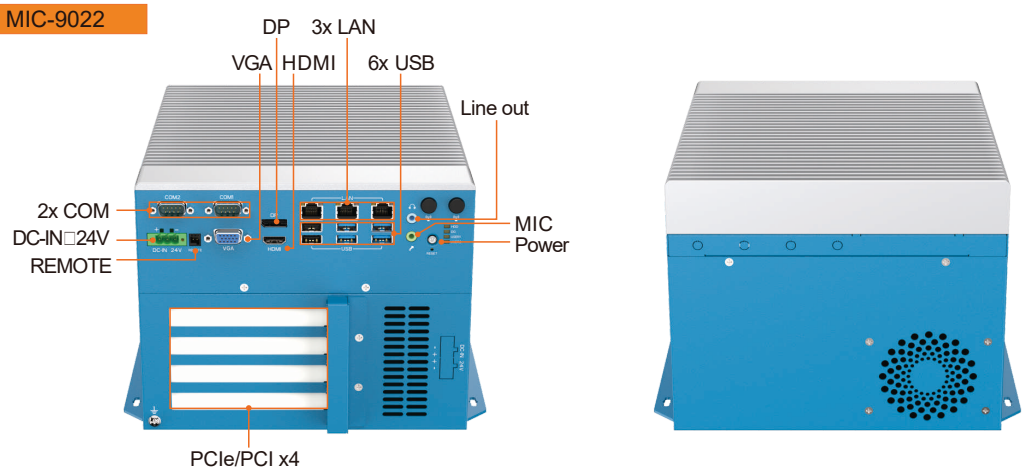

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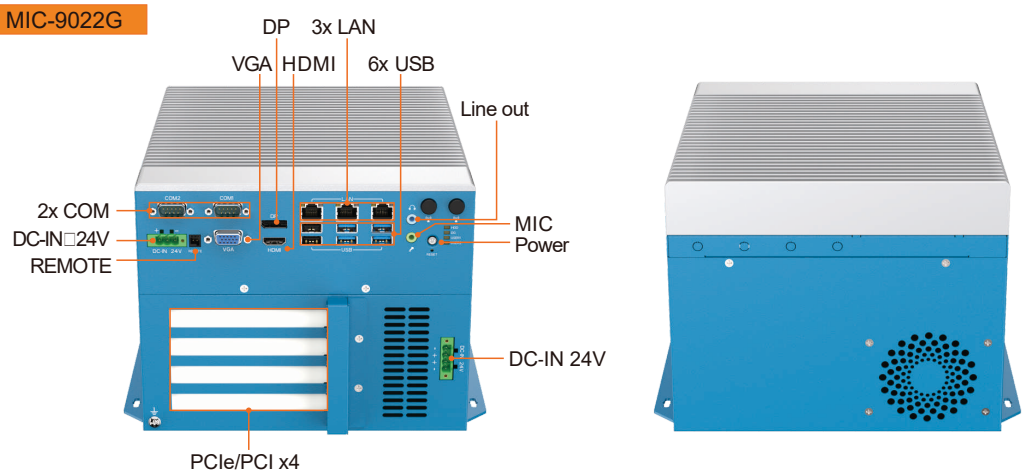
## MIC-9011




## MIC-9022




## MIC-9022G




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# MIC-9000/MIC-9011/MIC-9022/MIC-9022G

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## Specifications

| System | MIC-9000 | MIC-9011 | MIC-9022/MIC-9022G |
|---|---|---|---|
| CPU | 14th/13th/12th Gen Intel® Core™ i7/i5/i3 Socket CPU (LGA1700) | | |
| CPU TDP | 65W (PL1=45W, PL2=65W) | | |
| Chipset | Intel® H610 (Default)/ Q670 | | |
| Memory | 2x DDR5 SO-DIMM up to 64GB | | |
| Storage | 2x M.2 2280 SATA(H610)/ 2x M.2 2280 RAID 0/1 (Q670) | | |
| Graphics | Intel® UHD Graphics 770 | | |
| BIOS | AMI 128Mbit SPI Flash | | |
| TPM | TPM 2.0 (op.ﬁonal) | | |
| Watchdog Timer | So[ware programmable supports 256 levels system reset | | |
| I/O Ports | | | |
| USB | 2x USB 2.0, 4x USB3.0 (H610) / 6x USB3.0 (Q670) | | |
| Serial | 2x DB9, COM1: RS-232/422/485 (BIOS selectable), COM2: RS-232 | | |
| Ethernet | 1x Intel® I219, 2x Intel® I210-AT (Supports wake On LAN) | | |
| Display | 1x DP1.4a (up to 4096 x 2304@60Hz), 1x HDMI (up to 4096 x 2160@60Hz), 1x VGA (up to 1920 x 1200@60Hz). Supports triple independent displays | | |
| SIM Card Slot | 1x NANO SIM (inside) | | |
| Antenna | 6x SMA-type | | |
| CAN bus | 2x CAN 2.0B (op.ﬁonal, share with M.2 2230) | | |
| Expansion Slot | | | |
| PCI/PCIe | — | 1x PCI, 1x PCIe x16 | 2x PCI, 1x PCIe x16,<br>1x PCIe x4 (x2 signal) |
| M.2 | 1x M.2 M-Key 2280 SATA, 1x M.2 E-Key 2230 WIFI & BT<br>1x M.2 M-Key 3042/2280 SATA(H610)/1x M.2 M-Key 3042/3052/2280 SATA(Q670) | | |
| RF Communication | | | |
| Wi-Fi | 1x M.2 2230 E-Key | | |
| Cellular | 1x M.2 3042/3052 B-Key□ | | |
| Bluetooth | 1x M.2 2230 E-Key | | |
| GNSS | 1x M.2 3042/3052 B-Key | | |
| Audio | | | |
| Audio | Mic in, line out | | |
| Power | | | |
| Bu□on | Yes | | |
| Remote Power On/Off | 2-Pin remote | | |
| DC Input | 24V | | |
| Power Adaptor | AC-DC, 24V@7.5A, 180W | | AC to DC, 24V 180W<br>(MIC-9022 op.ﬁonal)<br>AC to DC, 24V 480W<br>(MIC-9022G op.ﬁonal) |
| Power Consump.ﬁon (CPU/Memory Only) | Typical: 76W, Max: 102.3W | | |
| Operating System | | | |
| Windows | Windows 10/11 | | |
| Linux | Ubuntu | | |
| Mechanical | | | |
| Dimensions (W x D x H) | 220 x 256 x 76 mm<br>(8.66 x 10.08 x 3.27 inches) | 220 x 256 x 136 mm<br>(8.66 x 10.08 x 5.35 inches) | 220 x 256 x 176 mm<br>(8.66 x 10.08 x 6.93 inches) |
| Weight (N.W.) | 4.3 kg (9.48 lbs) | 4.6 kg (10.15 lbs) | 5.6 kg (12.35 lbs) |
| Moun.ﬁng | Wall-mount | | |
| Material | Aluminum Alloy + Sheet Metal | | |

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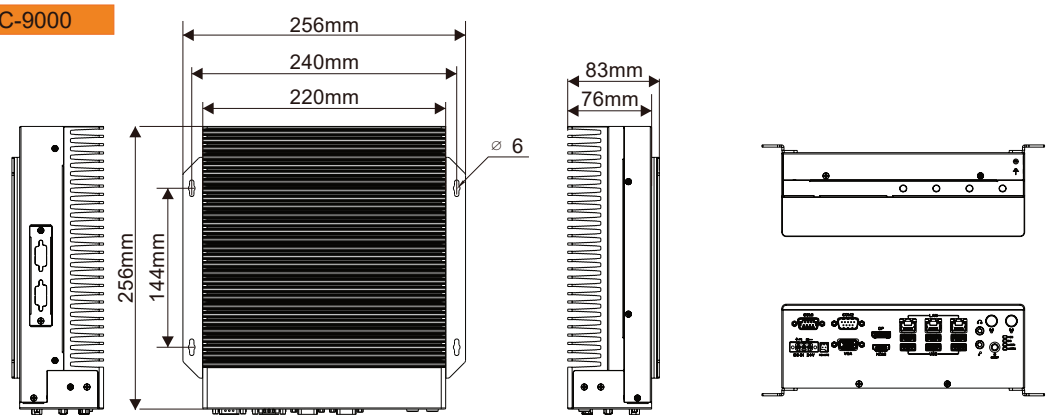
# MIC-9000/MIC-9011/MIC-9022/MIC-9022G

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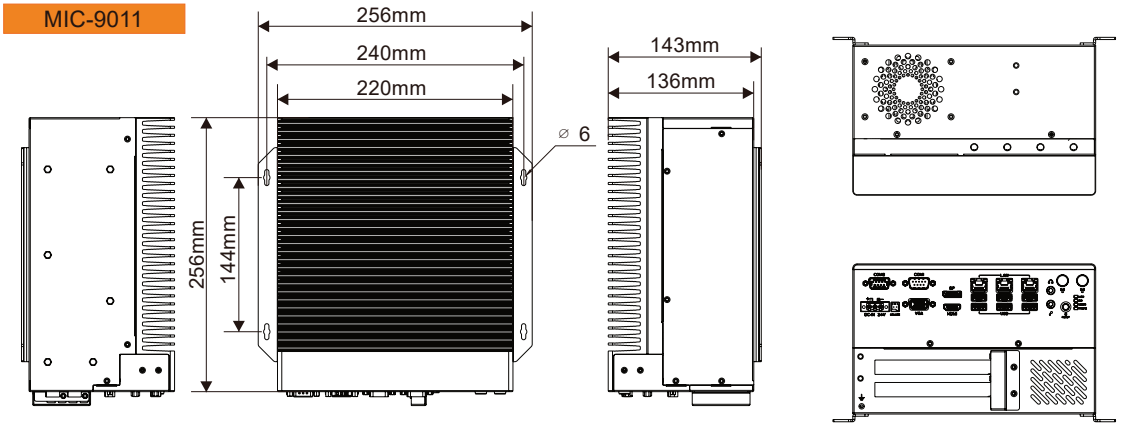
| Environment | |
|---|---|
| Operating Temperature | -10°C to 50°C with 0.7 m/s air flow |
| Storage Temperature | -40°C to 85°C (-40°F to 185°F) |
| Relative Humidity | 10% to 95% (non-condensing) |
| Certification | |
| EMC | CE, FCC, Class A |

## Dimensions

MIC-9000

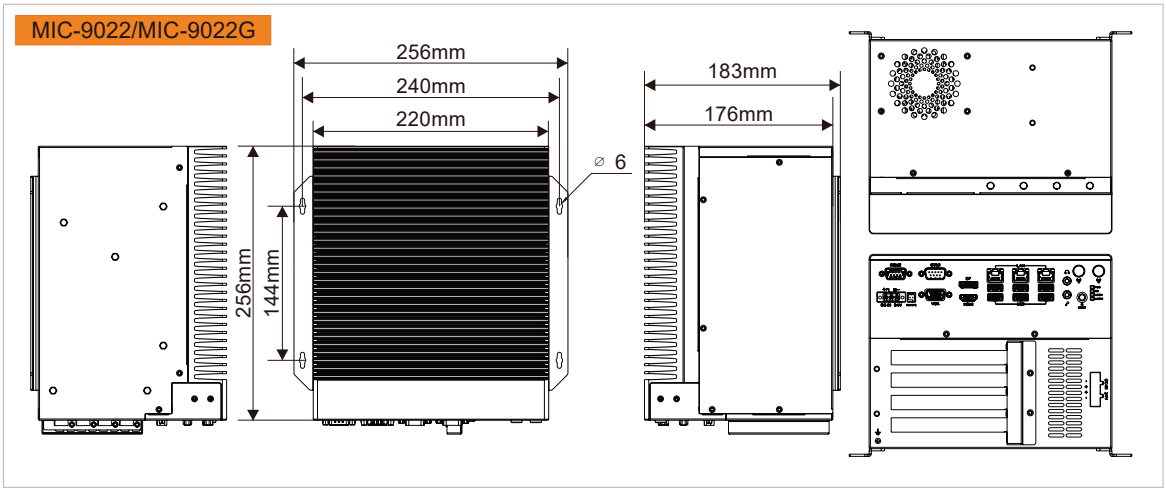



MIC-9011



# MIC-9000/MIC-9011/MIC-9022/MIC-9022G

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## Packing List

| Part No. | Description | Quantity |
|---|---|---|
| - | MIC-90XX barebone system | 1 |
| A.01.003.000701 | Wall mount bracket | 2 |
| A.01.003.000699 | M3 screw kit | 1 |
| A.01.003.000700 | 3-Pin Phoenix terminal (power interface) & 2-Pin Phoenix terminal (remote switch) | 1 |
| A.01.003.000698 | 4G/5G module extension board | 1 |

## Ordering Information

| Part No. | Description |
|---|---|
| MIC-9000-A0 | LGA1700, 2x DDR5 SO-DIMM up to 64GB, 3x LAN, 2x COM, 6x USB, 1xDP, 1x VGA, 1x HDMI, 24V DC-IN |
| MIC-9011-A0 | LGA1700, 2x DDR5 SO-DIMM up to 64GB, 3x LAN, 2x COM, 6x USB, 1x DP, 1x VGA, 1x HDMI, 1x PCI, 1x PCIe x16, 24V DC-IN |
| MIC-9022-A0 | LGA1700, 2x DDR5 SO-DIMM up to 64GB, 3x LAN, 2x COM, 6x USB, 1x DP, 1x VGA, 1x HDMI, 2x PCI, 1x PCIe x16, 1x PCIe x4, 24V DC-IN |
| MIC-9022G-A0 | LGA1700, 2x DDR5 SO-DIMM up to 64GB, 3x LAN, 2x COM, 6x USB, 1x DP, 1x VGA, 1x HDMI, 2x PCI, 1x PCIe x16, 1x PCIe x4, 300W Power, 24V DC-IN |

## Optional Accessories

| Part No. | Description |
|---|---|
| C.02.009.000234 | AC to DC adapter, 24V 180W |
| A.02.001.000069 | AC to DC adapter, 24V 480W |

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