

DIN-Rail IPC with Intel® Elkhart Lake Celeron®/Core™ i3/i5/i7 Processor, 5 x COM, 8 x DIO, 6 x USB, 2 x LAN

## Overview

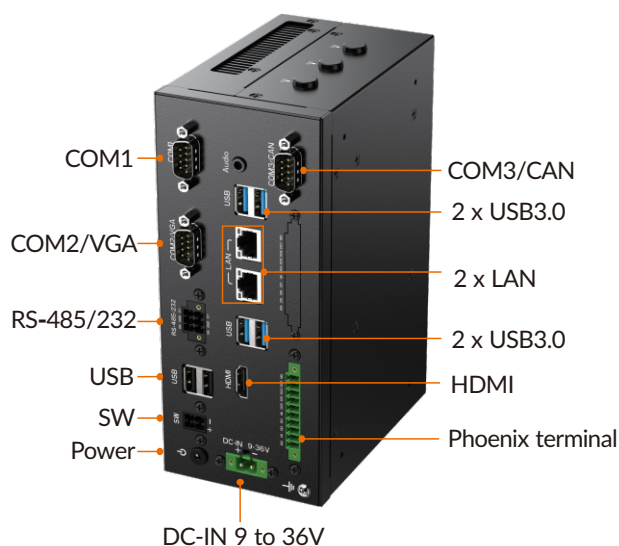
DBC-3400 is a DIN-Rail IPC equipped with extensive I/O options, offering great flexibility and effortless Mini PCIe expansion capabilities. It boasts wide-input power ranges, wide temperature tolerances, and enhanced structural durability, making it an excellent choice for industrial applications.

## Features

- 5 x COM, 2 x LAN, 6 x USB, 1 x HDMI
- 8 x Opto-isolated DIO
- 1 x 2.5" SATA HDD/SSD, 1 x M.2 2280 NVME
- 1 x Full length Mini PCIe, 1 x M.2 2230 E-Key



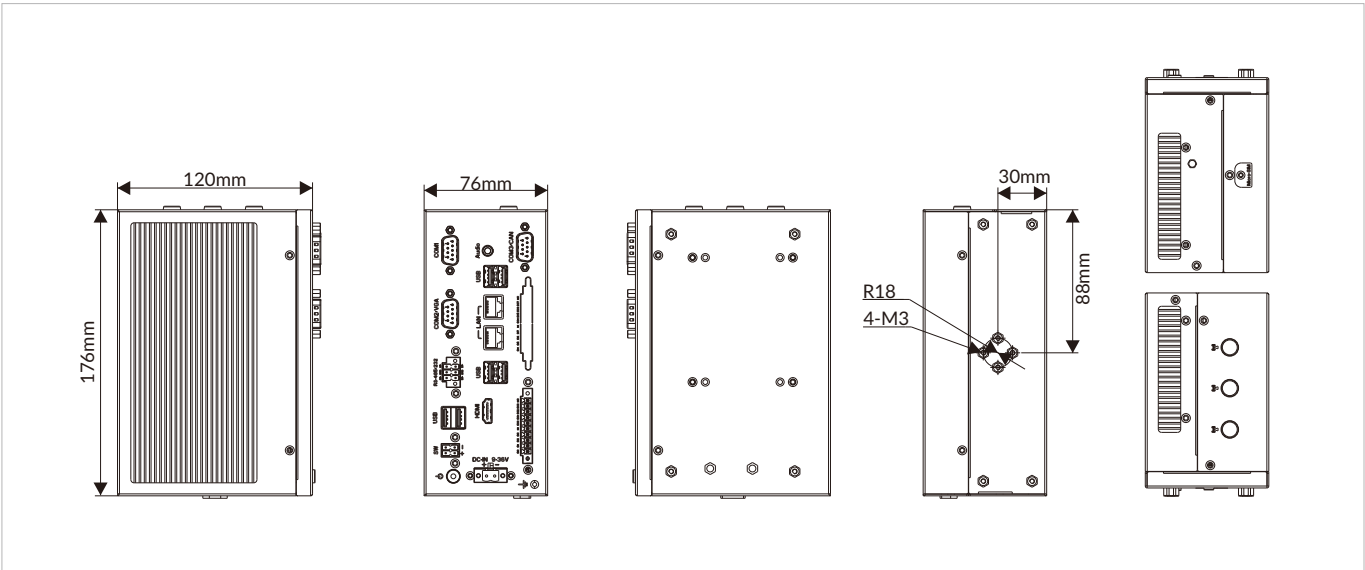
## I/O Interfaces



## Specifications

| System                |                                                         |                                          |                                             |                                          |
|-----------------------|---------------------------------------------------------|------------------------------------------|---------------------------------------------|------------------------------------------|
| CPU                   | Intel® Celeron® J6412 processor                         | Intel® Core™ i3-10110U/i5-10310U         | Intel® Core™ i3-1115G4 /i5-1155G7/i7-1195G7 | Intel® Core™ i3-1215U /i5-1235U/i7-1255U |
| CPU TDP               | 10W                                                     | 15W                                      | 15W                                         | 15W                                      |
| Memory                | 1 x DDR4 3200 MHz SO-DIMM up to 32GB                    | 1 x DDR4 2666 MHz SO-DIMM up to 32GB     | 1 x DDR4 3200 MHz SO-DIMM up to 32GB        | 1 x DDR4 3200 MHz SO-DIMM up to 32GB     |
| Storage               | 1 x 2.5" SATA HDD<br>1 x M.2 2280 NVME                  |                                          |                                             |                                          |
| BIOS                  | AMI UEFI                                                |                                          |                                             |                                          |
| TPM                   | BIOS                                                    |                                          |                                             |                                          |
| Watchdog Timer        | Software Programmable. Supports 256 levels system reset |                                          |                                             |                                          |
| I/O Ports             |                                                         |                                          |                                             |                                          |
| USB                   | 2 x USB 2.0, 4 x USB 3.0                                |                                          |                                             |                                          |
| Serial                | 5 x RS-232(2 x RS-232/485)                              |                                          |                                             |                                          |
| Ethernet              | 2 x RJ45 GbE Intel® I210AT                              |                                          |                                             |                                          |
| Display               | 1 x HDMI                                                |                                          |                                             |                                          |
| SIM Card Slot         | 1 x SIM card slot                                       |                                          |                                             |                                          |
| DIO                   | 8 x Opto-isolated DIO/16 x Opto-isolated DIO(optional)  |                                          |                                             |                                          |
| CAN bus               | 2 x CAN 2.0B(optional)                                  |                                          |                                             |                                          |
| Antenna               | 3 x SMA antenna holes                                   |                                          |                                             |                                          |
| Expansion Slot        |                                                         |                                          |                                             |                                          |
| Mini PCIe             | 1 x Full length Mini PCIe                               |                                          |                                             |                                          |
| M.2                   | 1 x M.2 2280 NVME                                       | 1 x M.2 2280 NVME,<br>1 x M.2 2230 E-Key | 1 x M.2 2280 NVME                           | 1 x M.2 2280 NVME,<br>1 x M.2 2230 E-Key |
| RF Communication      |                                                         |                                          |                                             |                                          |
| Wi-Fi                 | Mini PCIe                                               | 1 x M.2 2230 E-Key                       | Mini PCIe                                   | 1 x M.2 2230 E-Key                       |
| Cellular              | Mini PCIe                                               | Mini PCIe                                | Mini PCIe                                   | Mini PCIe                                |
| Bluetooth             | Mini PCIe                                               | 1 x M.2 2230 E-Key                       | Mini PCIe                                   | 1 x M.2 2230 E-Key                       |
| GNSS                  | Mini PCIe                                               | Mini PCIe                                | Mini PCIe                                   | Mini PCIe                                |
| Audio                 |                                                         |                                          |                                             |                                          |
| Audio                 | Mic in, line out                                        |                                          |                                             |                                          |
| Power                 |                                                         |                                          |                                             |                                          |
| Button                | Yes                                                     |                                          |                                             |                                          |
| Remote Power On/Off   | 4-Pin Remote SW&Power LED                               |                                          |                                             |                                          |
| DC Input              | 9-36VDC                                                 |                                          |                                             |                                          |
| Power Mode            | AT/ATX                                                  |                                          |                                             |                                          |
| Operating System      |                                                         |                                          |                                             |                                          |
| Windows               | Windows 10/11                                           |                                          |                                             |                                          |
| Linux                 | Ubuntu                                                  |                                          |                                             |                                          |
| Mechanical            |                                                         |                                          |                                             |                                          |
| Dimensions (WxDxH)    | 176 x 120 x 76mm (6.93 x 4.72 x 2.99 inches)            |                                          |                                             |                                          |
| Weight (N.W.)         | 2.2kg (4.85lbs)                                         |                                          |                                             |                                          |
| Mounting              | DIN-Rail/Wall mount(optional)                           |                                          |                                             |                                          |
| Material              | Aluminum alloy                                          |                                          |                                             |                                          |
| Environment           |                                                         |                                          |                                             |                                          |
| Operating Temperature | -10 to 60°C (14 to 140°F)                               |                                          |                                             |                                          |
| Storage Temperature   | -20 to 60°C (-4 to 140°F)                               |                                          |                                             |                                          |
| Relative Humidity     | 10% to 95% @ 40°C (104°F), non-condensing               |                                          |                                             |                                          |
| Certification         |                                                         |                                          |                                             |                                          |
| EMC                   | CE, FCC Class A                                         |                                          |                                             |                                          |

Dimensions



Ordering Information

| Part No.        | Description                    |
|-----------------|--------------------------------|
| A.02.001.000022 | AC/DC power adaptor 60W 12V 5A |
| C.02.009.000039 | AC/DC power adaptor 84W 12V 7A |

Ordering Information

| Part No.        | Description                                                          |
|-----------------|----------------------------------------------------------------------|
| DBC-3400-J6412  | J6412 DBC with 5 x COM, 2 x LAN, 8 x DIO, 6 x USB, HDMI, 9-36VDC     |
| DBC-3400-10110U | i3-10110U DBC with 5 x COM, 2 x LAN, 8 x DIO, 6 x USB, HDMI, 9-36VDC |
| DBC-3400-10310U | i5-10310U DBC with 5 x COM, 2 x LAN, 8 x DIO, 6 x USB, HDMI, 9-36VDC |
| DBC-3400-1115G4 | i3-1115G4 DBC with 5 x COM, 2 x LAN, 8 x DIO, 6 x USB, HDMI, 9-36VDC |
| DBC-3400-1155G7 | i5-1155G7 DBC with 5 x COM, 2 x LAN, 8 x DIO, 6 x USB, HDMI, 9-36VDC |
| DBC-3400-1195G7 | i7-1195G7 DBC with 5 x COM, 2 x LAN, 8 x DIO, 6 x USB, HDMI, 9-36VDC |
| DBC-3400-1215U  | i3-1215U DBC with 5 x COM, 2 x LAN, 8 x DIO, 6 x USB, HDMI, 9-36VDC  |
| DBC-3400-1235U  | i5-1235U DBC with 5 x COM, 2 x LAN, 8 x DIO, 6 x USB, HDMI, 9-36VDC  |
| DBC-3400-1255U  | i7-1255U DBC with 5 x COM, 2 x LAN, 8 x DIO, 6 x USB, HDMI, 9-36VDC  |

