# NXP i.MX6 DIN-Rail Fanless Computer with RS-232/485/CAN Two Gigabit Ethernet Ports and POE Options

## INTRODUCTION

The BIS-2230 is a small form factor fanless embedded PC based on NXP i.MX6 application processor. The system supports up to two Gigabit Ethernet ports and Power over Ethernet (PoE) option. The rich I/Os and slim design of this fanless computer fits perfectly for digital signage, kiosk, network security, IoT gateway and other industrial computer applications.
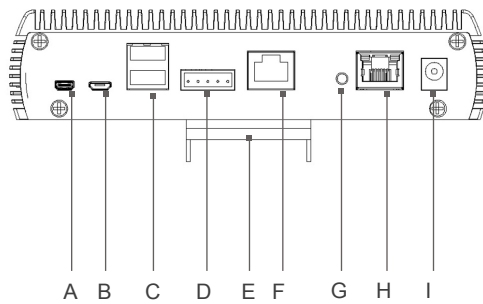
## FEATURES

- NXP i.MX6 application processor with long life cycle support
- Support up to two Gigabit Ethernet ports, with 802.3af POE option
- RS-232, RS-422/485 and CAN Bus port options
- On-board WiFi module and Bluetooth 4.1 BLE
- Support Android 6.0.1, Debian Linux and Yocto Embedded Linux
- Slim vent-hole free dustproof fanless aluminum enclosure

## SPECIFICATIONS

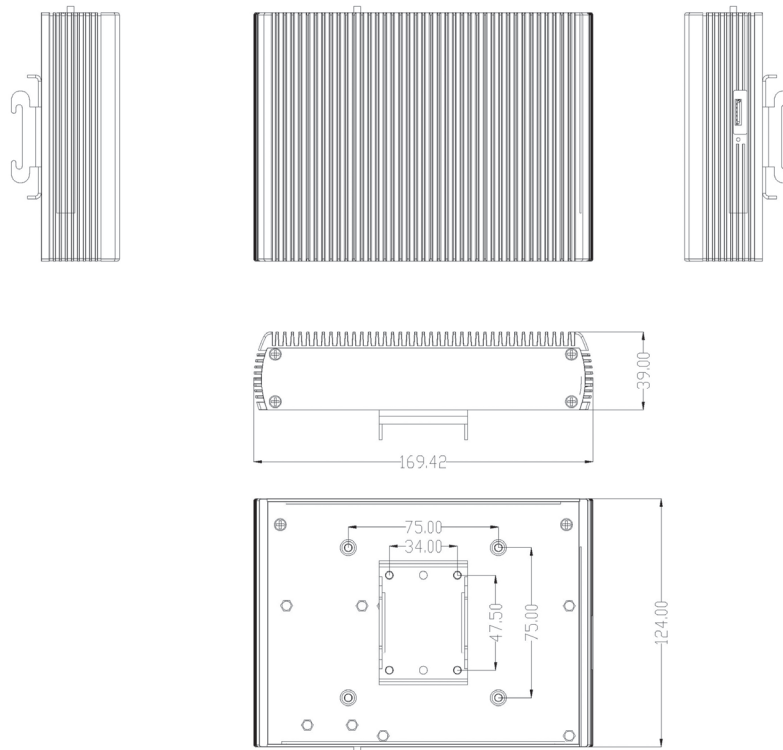| | |
|---|---|
| Model | BIS-2230 |
| Platform | ARM Cortex A9 |
| Processor | NXP i.MX6 1GHz  Dual Lite or Quad |
| System Memory | 1GB On-Board DDR3 |
| Ethernet | 2 x Gigabit Ethernet, RJ45, one support 802.3af POE power input (optional POE module) |
| Storage | On-board NAND flash (8GB default), 1 x micro SD slot |
| Audio | Internal Line-out, MIC-in, headphone, speaker out headers |
| Display Interface | 1x micro HDMI |
| I/O Ports | 1 x RS-232/RS-485/CAN and 2 x GPIO via terminal block<br>2 x USB 2.0 Type A, 1 x mini-USB OTG<br>2 x Internal USB 2.0 header |
| Expansion | 1x 40 pin internal connector with PCIe x1 for 2nd Ethernet, GPIO, font panel control, POE power input |
| Wireless | On-Board WiFi /BT module 802.11 b/g/n + BLE 4.1 with external antenna connector option |
| Watchdog timer | Built-in |
| Power Input | 5V DC, POE or 9V - 36V DC  (Dual NIC version) |
| Cooling | Fanless |
| Enclosure Material | Aluminum |
| Enclosure Color | Black |
| Mounting Option | Support 75 x 75mm VESA mount, or DIN-Rail mount with optional bracket |
| Operating Temperature | -20 ~ 60°C (-28 ~ 140°F) |
| Storage Temperature | -40 ~ 85° C (-40 ~ 185° F) |
| Operating Humidity | 10 ~ 95% @ 40°C (Non-Condensing) |
| Dimensions | 170 x 124 x 39 mm (6.7" x 4.9" x 1.54") |

## I/O LAYOUT

A. Micro HDMI

B. OTG

C. 2x USB 2.0

D.  RS232/485/CAN/GPIO

E.  DIN-Rail Bracket

F.  Ethernet 1

G. GPIO Button

H. Ethernet 2

 I . DC Power Connector

A  B  C    D   E  F    G    H    I

## DIMENSIONS

Unit: mm

39.00

169.42

75.00

34.00

47.50

75.00

124.00

## ORDER INFORMATION

| Part No. | Description |
| --- | --- |
| BIS-2230-DLS | Fanless PC with i.MX6 DL processor, single GbE, 5V DC power input |
| BIS-2230-DLP | Fanless PC with i.MX6 DL processor, single GbE, POE power input |
| BIS-2230-DLT | Fanless PC with i.MX6 DL processor, dual GbE, DC power input |
| BIS-2230-QPT | Fanless PC with i.MX6 Q processor, dual GbE, DC power input |
| CBL-2230-DIN | DIN-Rail Mount Bracket |

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