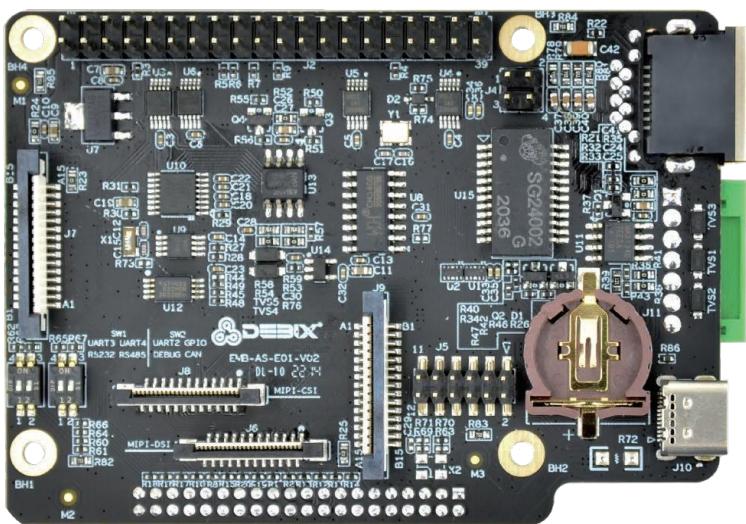




[www.debix.io](http://www.debix.io)

# DEBIX I/O Board



# Industrial Computer



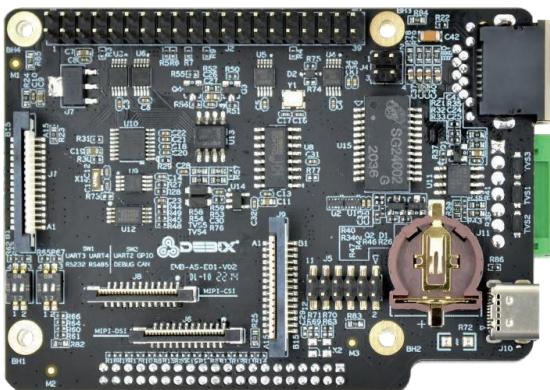
# DEBIX I/O Board

## Overview:

DEBIX I/O Board is an add-on board designed for DEBIX Model A, DEBIX Model B and is compatible with DEBIX Infinity and DEBIX R Series R3576-01. It adds one RJ45 Gigabit Ethernet interface and PoE capability to your Single Board Computer. It comes with RS232, RS485 and CAN Transceiver to allow connection with more industrial equipment, and its strong expansion ability brings unlimited possibilities.

## Compatibility:

Compatible with DEBIX Model A, DEBIX Model B, DEBIX Infinity, R3576-01



(Front View)



(Back View)

## Specification:

I/O Interfaces	
Gigabit Ethernet	1x Gigabit Ethernet port POE Supported (Compatible with POE power device module)
USB	1 x USB Type-C Debug (USB to Serial)
RTC	1 x RTC
Serial Ports	1 x RS232 1 x RS485
CAN	1 x CAN Transceiver
DIP Switch	2 x 2bit DIP Switch (used for selecting USB-Debug, RS232, RS485 and CAN)
Expansion	
40-Pin Double-Row Headers	3 x UART, 2 x I2C, 2 x SPI, 2 x CAN, 6 x GPIO for default, can be reused as I2S, PWM, SPDIF and GPIO through software configuration.
MIPI CSI	1 x MIPI CSI
MIPI DSI	1 x MIPI DSI
EEPROM	1 x 2Kbit EEPROM
Accessories	
Cables	2 x Flexible flat cable for DSI & CSI 1 x Female to female jumper wire for Ethernet
Power Supply	
Power Input	DC 5V/500mA

# DEBIX I/O Board

## Mechanical

Size (L x W) 85.0mm x 61.2mm ( $\pm 0.5\text{mm}$ )

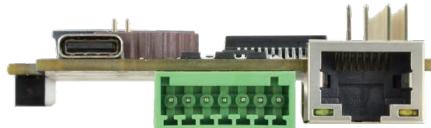
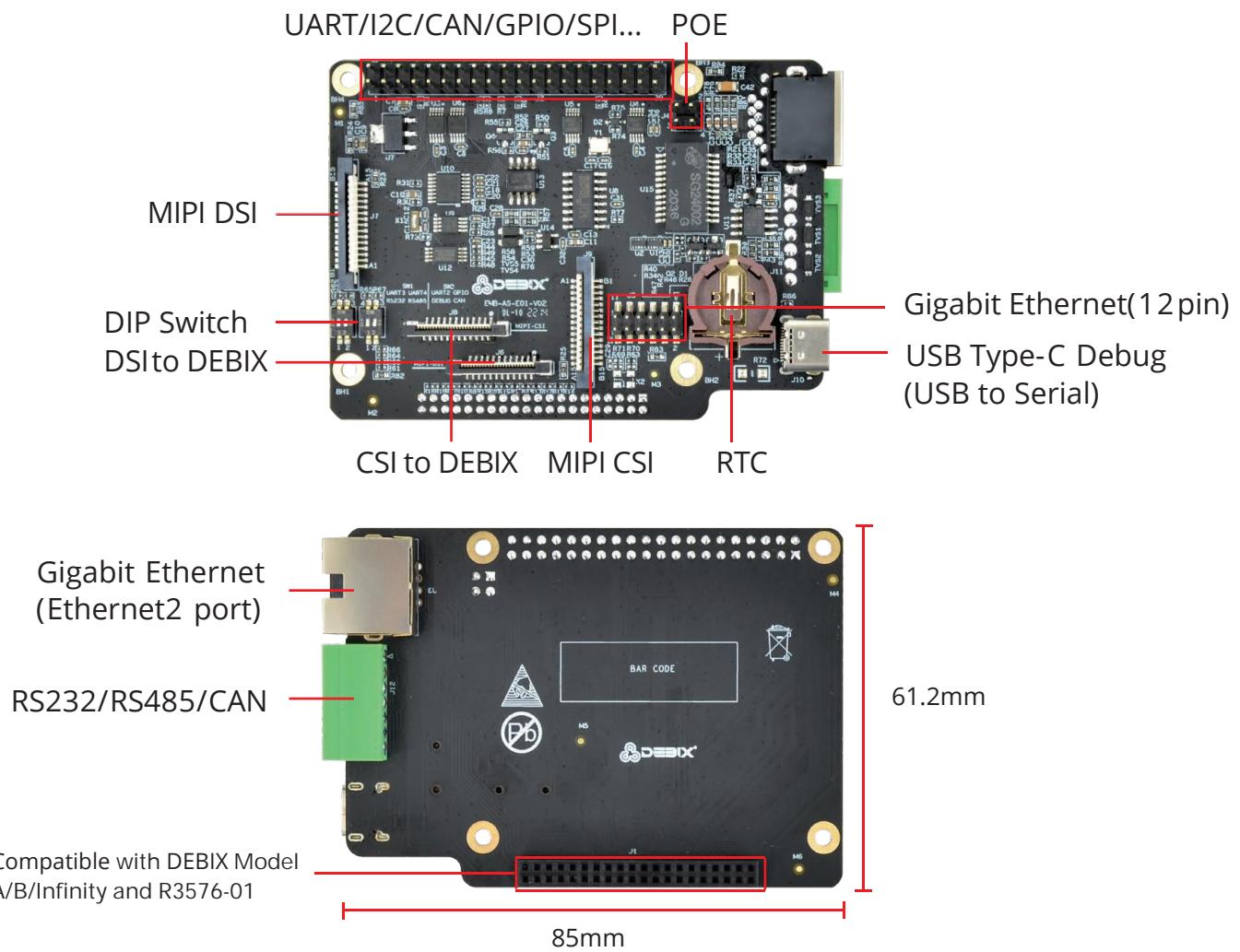
Gross Weight 62g( $\pm 0.5\text{g}$ )

Net Weight 31g( $\pm 0.5\text{g}$ )

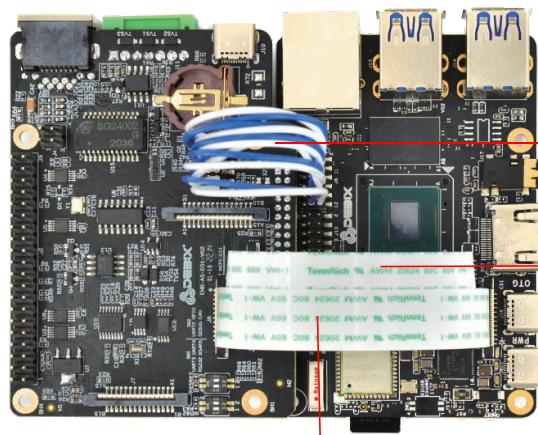
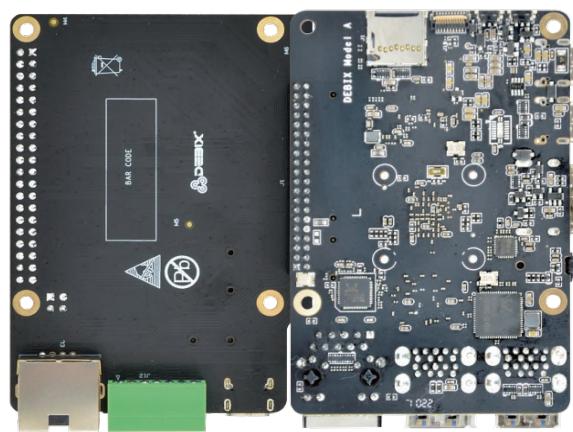
## Certificates:



## I/O Interfaces:



## Connection with DEBIX Model A/B:



12pin header  
Connection

DSI  
Connection

CSI Connection

## Safety Instruction and Warnings:

### **General:**

- Avoid exposure to water, moisture, and conductive surfaces while operating.
- Handle with care to avoid mechanical or electrical damage to the circuit board and connectors.
- Only handle the board by the edges when powered on to minimize the risk of electrostatic discharge damage.

### **Environment:**

- Operate in a well-ventilated environment, even if using a case.
- Place on a stable, flat, non-conductive surface and avoid contact with conductive items.

### **Connections:**

- Only connect compatible devices to the GPIO ports to avoid damage and warranty voiding.
- Use peripherals that comply with relevant standards for the country of use and ensure proper insulation and operation.

### **Additional notes:**

- This summary is not exhaustive, please refer to the full User Manual for details.
- If you are unsure about any aspect of safety or operation, consult a qualified professional.

---

## Contact Us:

Headquarters: DEBIX Technology Inc., 8345 Gold River Ct., Las Vegas, NV 89113, USA

Factory: 5-6/F., East Zone, Shunheda A2 Building, Liuxiandong Industrial Park, Xili, Nanshan Dist., Shenzhen, China

Email: info@debix.io

Website: [www.debix.io](http://www.debix.io)

Community: <https://discord.com/invite/adaHHAkH2>

