

**SINTRONES**

**Embedded Computing**

# SBOX-2623-R2312

**AMD Ryzen™ Embedded R2312 w/ 1x DVI-D / 2x HDMI® / 2x GbE / 4x COM / DC 9-36V Embedded Computer**



- AMD Ryzen™ Embedded R2312 2C/4T Processor
- Dual HDMI® Supports Resolution Specified in HDMI 2.0b
- 1 x M.2 2280 Key M Supports NVMe or SATA SSD
- 1 x M.2 3042/52 Key B Supports USB 3.2 WWAN with Dual SIM
- 1 x M.2 2230 Key E Supports PCIe and USB2.0 Wi-Fi/Bluetooth

## Specifications

### System

- Processor**
  - AMD Ryzen™ Embedded R2312 2C/4T Processor
- Graphics**
  - CPU Built-in Graphics AMD Radeon™ Graphics
- Memory**
  - 1 x SO-DIMM DDR4-2400 up to 32GB (ECC Support with ECC DRAM)
- Security**
  - TPM 2.0
- Watchdog**
  - System power on/off 1 ~ 255 min setting by BIOS

### Interface

- Video**
  - 1 x DVI-D (Single link with custom pin define)
  - 2 x HDMI® supports 4K@60Hz as specified in HDMI 2.0b
- Audio**
  - 1 x Line-out and 1 x Mic-in
- Ethernet**
  - 2 x I210-AT GbE RJ45 port
- USB**
  - 2 x USB 3.2 Gen 2 (10Gbps)
  - 2 x USB 2.0
- GPIO**
  - 1 x GPIO port supporting 4 x GPI and 4 x GPO (5VDC TTL)
- Serial Port**
  - 4 x RS-232/422/485

### Internal Expansion

- M.2**
  - 1 x M.2 3042/52 Key B supports USB 3.2 WWAN w/ Dual SIM
  - 1 x M.2 2230 Key E supports PCIe and USB2.0 Wi-Fi/BT
- mPCIe**
  - 1 x mPCIe full size slot supports USB 2.0 only

### Storage

- Type**
  - 1 x M.2 2280 Key M supports NVMe or SATA SSD
  - 1 x 2.5" SATA SSD

### Power

- Power Input**
  - DC 9 ~ 36V via 2 pins terminal block
- Power Protection**
  - Over voltage and reverse polarity protection

### Software

- Operating System Support**
  - Windows 10 IoT Enterprise 64bit LTSC
  - Windows 11 IoT Enterprise LTSC
  - Ubuntu 20.04 LTS 64bit

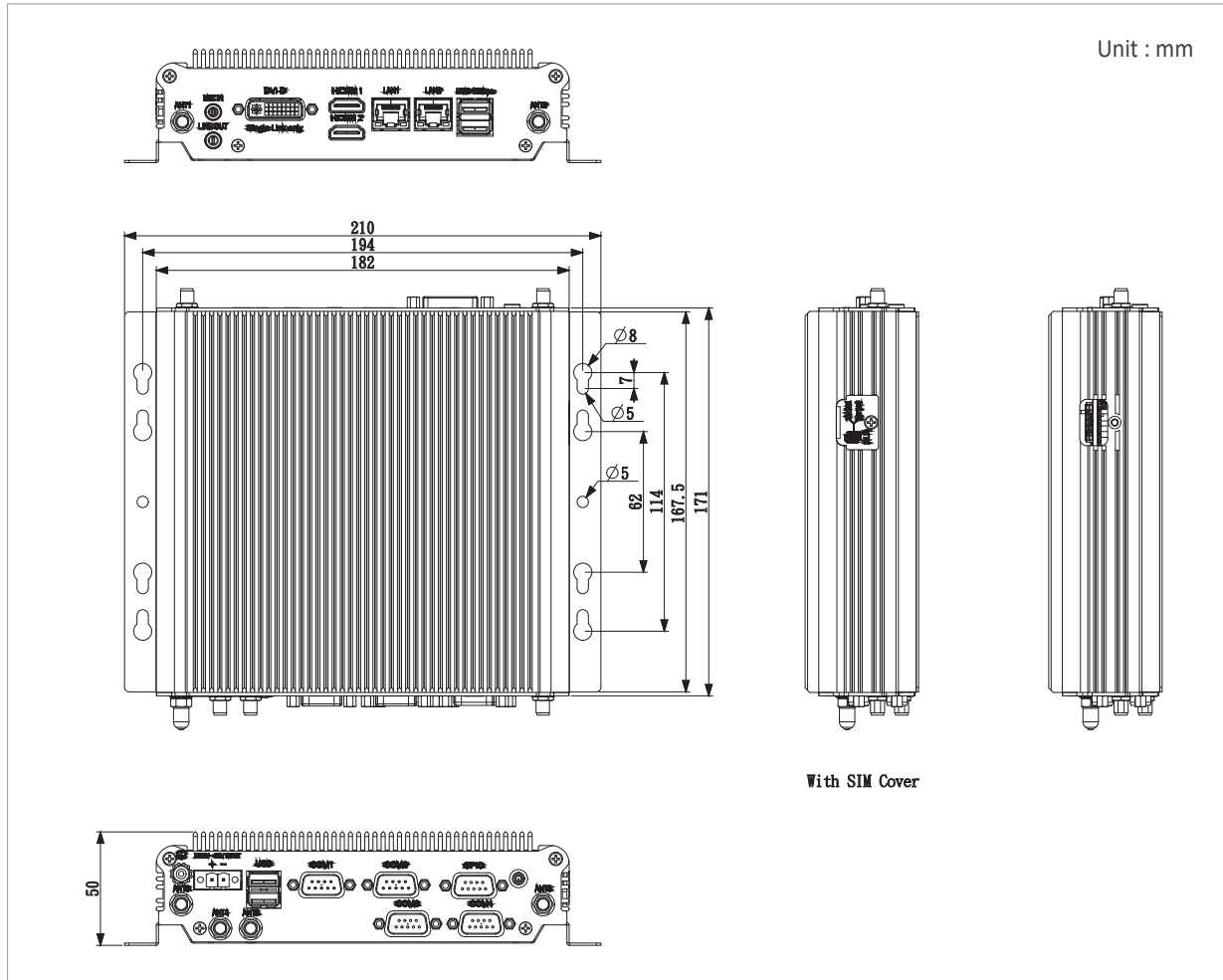
### Environmental

- Operating Temp.**
  - -30 ~ 60°C, with SSD, ambient w/ air flow 0.6m/s (for barebone system)
- Storage Temp.**
  - -40 ~ 85°C
- Relative Humidity**
  - 10% RH ~ 90% RH (non-condensing)
- Certification / Standard**
  - CE, FCC Class A, UKCA

### Mechanical

- Construction**
  - Aluminum Alloy
- Mounting Method**
  - Wall-mounting
- Weight**
  - 1.7kg
- Dimensions**
  - 210 (L) x 171 (W) x 50 (H) mm

## Dimensions



## Ordering Information

|                 |   |
|-----------------|---|
| Model Number    | SBOX-2623-R2312   |
| Description     | AMD Ryzen™ Embedded R2312 w/ 1x DVI-D / 2x HDMI® / 2x GbE / 4x COM / DC 9-36V Embedded Computer |
| State of Origin | Made in Taiwan  |

## Optional Accessories

|         |  |
|---------|--|
| Memory  | DDR4-2400/2666/3200 SO-DIMM, 8GB~32GB, -40~85°C (ECC Option Available) |
| SSD     | M.2 2280 Key B-M NVMe TLC -40~85°C 512GB~2TB                           |
| SSD     | M.2 2280 Key B-M SATA TLC -40~85°C 128GB~2TB                           |
| SSD     | 2.5 inch SATA TLC -40~85°C 128GB~2TB                                   |
| Wi-Fi   | M.2 2230 Key E 802.11 a/b/g/n/ac, Wi-Fi 6E                             |
| WWAN    | M.2 3042 Key B LTE (USB) / 3052 Key B 5G (USB) with Thermal Kit        |
| CAN Bus | mPCIe full size (USB interface only)                                   |

All specifications are subject to change without notice.

## Assured Systems

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