

# 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)

#### Network

- 2 x I210-AT

#### 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 GbE RJ45 port

#### USB

- 2 x USB 3.2 Gen 2 (10Gbps)
- 2 x USB 2.0

#### GPIO

- 1 x GPIO port supports 4 x DI (5V) and 4 x DO (5V 100mA)

#### 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
- 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 ~ 80°C

#### Relative Humidity

- 10% RH ~ 90% RH (non-condensing)

#### Certification / Standard

- CE, FCC Class A, UKCA

### Mechanical

#### Construction

- Aluminum Alloy

#### Mounting Method

- Wall-mounting

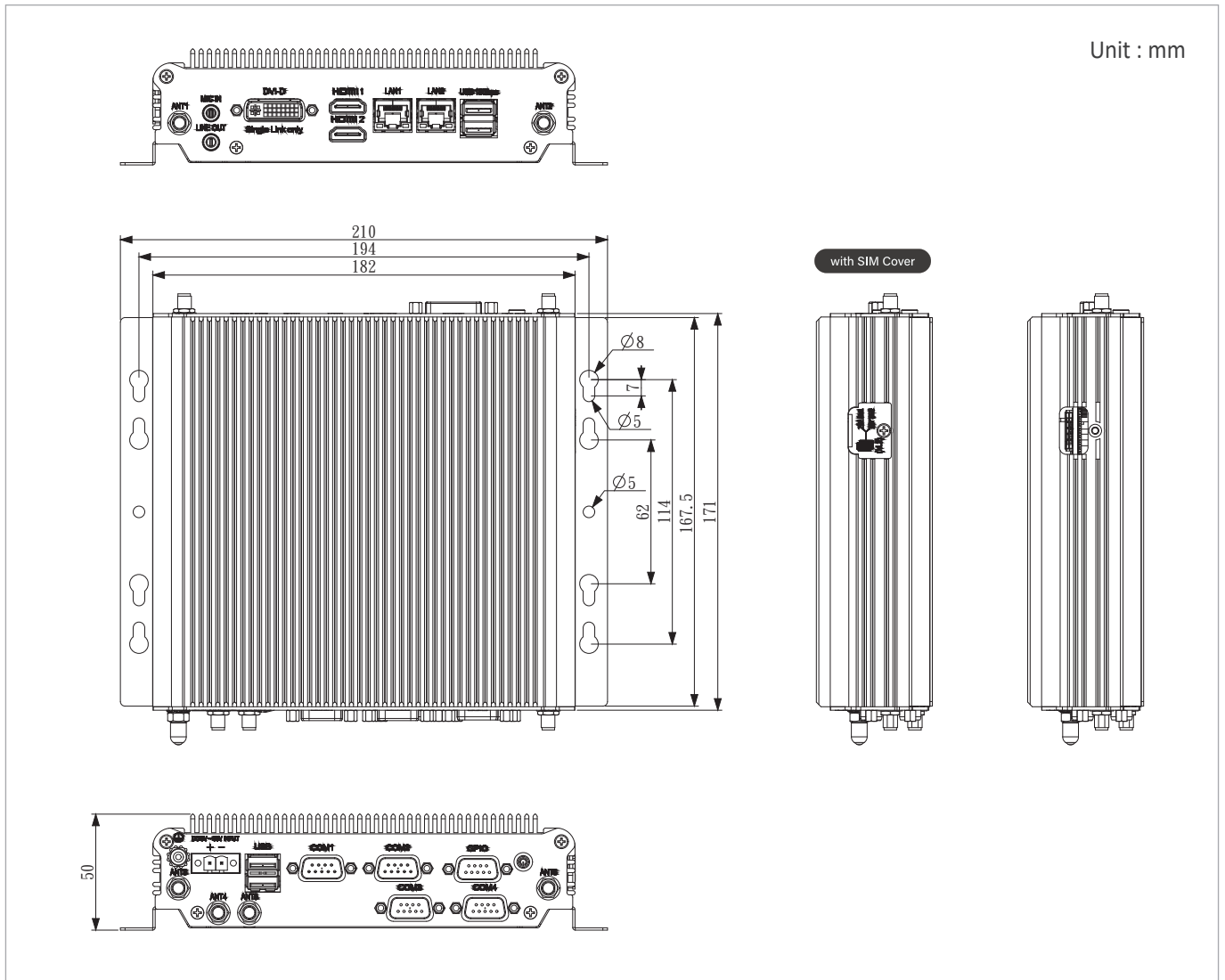
#### Weight

- 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.