

SINTRONES

Embedded Computing

SBOX-2603-R2312

AMD Ryzen™ Embedded R2312 w/ 1x DVI-D / 2x HDMI® / 2x GbE / 2x COM / DC 12V 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**
- 2 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

Storage

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

Power

- Power Input**
- DC 12V only via DC Jack

Software

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

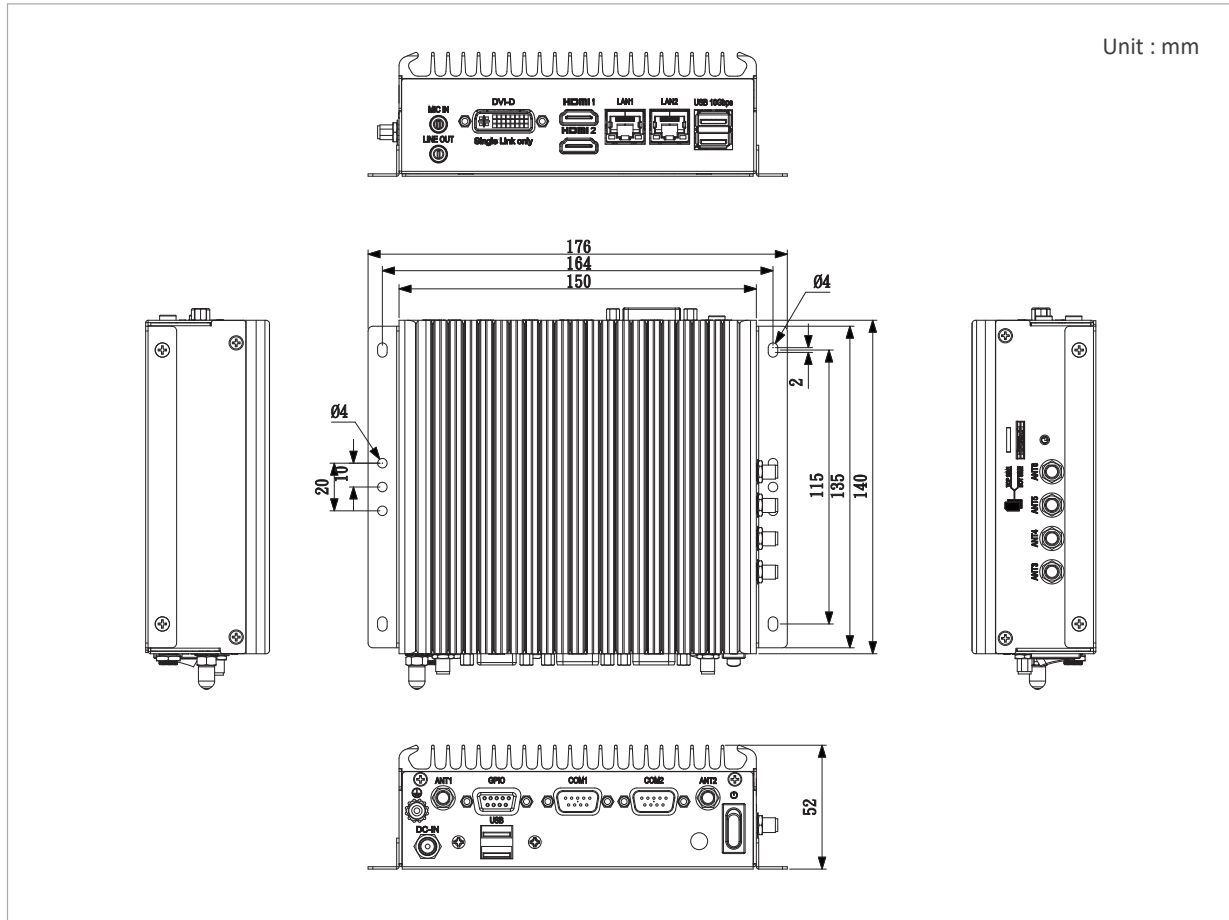
Environmental

- 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**
- 1.3kg
- Dimensions**
- 176 (L) x 140 (W) x 52 (H) mm

Dimensions



Ordering Information

Model Number	SBOX-2603-R2312
Description	AMD Ryzen™ Embedded R2312 w/ 1x DVI-D / 2x HDMI® / 2x GbE / 2x COM / DC 12V 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
Power Adapter	60W 100-240VAC to 12VDC Power Adapter

All specifications are subject to change without notice.

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