

998.00 EUR

incl. 19% VAT, plus [shipping](#)

- Fanless !
- Auto Power On/Off !
- 2x LAN ! 4x RS232 !
- VBOX-3123-R2312



- AMD Ryzen™ Embedded R2312 2C/4T Processor
- Dual HDMI® supports resolution specified in HDMI® 2.0b
- 1 x M.2 2280 M Key supports NVMe or SATA SSD
- 1 x M.2 3042/52 B Key supports USB 3.2 for WWAN w/ Dual SIM
- 1 x M.2 2230 E Key supports PCIe and USB 2.0 for Wi-Fi/BT
- 9 – 60VDC Wide Power Input

The AMD Ryzen™ Embedded R2000 Series SoCs boost the Ryzen™ Embedded mid-range processor portfolio to new heights by bringing together the “Zen+” x86 core architecture with high-performance AMD Radeon™ graphics. Compared to the legacy R1000 Series, the R2000 Series provides up to 2X the CPU core count<sup>1</sup>, Radeon™ graphics supporting up to 4 independent 4K displays and up to 2X the I/O connectivity<sup>2</sup> targeting Industrial and Robotics Systems, Machine Vision, IoT, Thin Clients and more.

With thermal design power (TDP) spanning from 12W to 54W, AMD Ryzen™ Embedded R2000 Series SoCs provide thermal agility for compact system designs to help streamline design efficiencies and BOM costs. They provide pin-to-pin package compatibility and a common software foundation with legacy AMD Ryzen™ Embedded R1000 and V1000 Series SoCs while delivering significant performance and connectivity boosts from previous R-Series families.

For a full PC you need in addition :

- 1x 2.5" HDD/SSD oder m.2 SSD
- 1x DDR-IV SO-DDR-RAM (up to 32Gb)

The PC is completely fanless and is equipped with an AMD Ryzen Embedded R2312 CPU.

|                         |                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU                     | AMD Ryzen™ Embedded R2312 2C/4T Processorg.                                                                                                                                                                                                                                 |
| Memory                  | DDR4-2400/2666/3200 SO-DIMM, 8GB~32GB, -40~85°C (ECC Option Available)                                                                                                                                                                                                      |
| Watchdog                | Watchdog Timer Support, Offer 1 – 255 Step                                                                                                                                                                                                                                  |
| TPM                     | 2.0                                                                                                                                                                                                                                                                         |
| Watchdog                | 1 ~ 255 Level Reset                                                                                                                                                                                                                                                         |
| Graphics Engine         | CPU Built-in Graphics AMD Radeon™ Graphics<br>4 x RS-232/422/485<br>2 x USB 3.2 Gen 2, 2 x USB 2.0<br>2 x I210-AT GbE RJ-45 port<br>2 x HDMI® 2.0b, 1 x DVI-D                                                                                                               |
| External I/O Connectors | *Only supports Single-Link DVI-D cables<br>4 x DI (9~60V) / 4 x DO (5V / 100mA)<br>2 x Analog Input (0~60V w/0.5V accuracy)<br>1 x MIC-in, 1 x Line-out<br><br>1 x M.2 3042/52 Key B supports USB 3.2 WWAN w/ Dual SIM                                                      |
| internal I/O            | 1 x M.2 2230 Key E supports PCIe and USB2.0 Wi-Fi/BT                                                                                                                                                                                                                        |
| Antenna                 | 2 x mPCIe full size slot supports USB 2.0<br>4 x Pre-cut Hole for External SMA Antenna<br>1 x M.2 2280 Key M supports NVMe or SATA SSD                                                                                                                                      |
| Storage                 | 1 x 2.5" SATA SSD                                                                                                                                                                                                                                                           |
| Mechanical              | Aluminum Alloy<br>Wall-mount, VESA-mount, Din Rail Mounting Kit                                                                                                                                                                                                             |
| Dimensions              | 210 x 171 x 56 mm (w/ mounting kit) / 1800g                                                                                                                                                                                                                                 |
| Operating Temp.         | -40 ~ 60°C (with SSD), ambient w/ 0.6m/s airflow                                                                                                                                                                                                                            |
| Storage Temp.           | -40°C ~ 85°C<br>- Relative Humidity 10% RH – 90% RH (non-condensing)<br><br>- Vibration: MIL-STD-810G, Method 514.6, Procedure I, Category 4 with SSD                                                                                                                       |
| Enviremetal             | - Shock: MIL-STD-810G, Method 516.6, Procedure I,<br>Trucks and semi-trailers=15G (11ms) with SSD<br><br>- Certification: CE, FCC Class A, UKCA, E-Mark<br>DC 9 – 60V Input ( Ignition Management for Variety Vehicle )<br><br>Over voltage and reverse polarity protection |
| Power                   | OPTIONAL: Internal battery Kit for about 10 mins operating<br>*UPS backup time varies depending on actual overall system power consumption.<br>*Operating temperature will be 0~55°C with the battery kit.<br>Patent No. : M447854 – Build-in Battery                       |
| Software                | Windows 10/11 IoT 64-bit, Ubuntu 20.04/22.04 LTS 64-bit                                                                                                                                                                                                                     |