



1039.00 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
External I/O Connectors	4 x RS-232/422/485 2 x USB 3.2 Gen 2, 2 x USB 2.0 2 x I210-AT GbE RJ-45 port 2 x HDMI@ 2.0b, 1 x DVI-D *Only supports Single-Link DVI-D cables 4 x DI (9~60V) / 4 x DO (5V / 100mA) 2 x Analog Input (0~60V w/0.5V accuracy) 1 x MIC-in, 1 x Line-out
internal I/O	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  2 x mPCIe full size slot supports USB 2.0
Antenna	4 x Pre-cut Hole for External SMA Antenna
Storage	1 x M.2 2280 Key M supports NVMe or SATA SSD  1 x 2.5" SATA SSD
Mechanical	Aluminum Alloy 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

## Enviremetal

- Relative Humidity 10% RH – 90% RH (non-condensing)
- Vibration: MIL-STD-810G, Method 514.6, Procedure I, Category 4 with SSD
- Shock: MIL-STD-810G, Method 516.6, Procedure I, Trucks and semi-trailers=15G (11ms) with SSD
- Certification: CE, FCC Class A, UKCA, E-Mark

## Power

DC 9 – 60V Input ( Ignition Management for Variety Vehicle )

Over voltage and reverse polarity protection

OPTIONAL: Internal battery Kit for about 10 mins operating

\*UPS backup time varies depending on actual overall system power consumption.

\*Operating temperature will be 0~55°C with the battery kit.

Patent No. : M447854 – Build-in Battery

## Software

Windows 10/11 IoT 64-bit, Ubuntu 20.04/22.04 LTS 64-bit