

# EM PRO mini

the professional IT-solution



## Why EM PRO mini?

AMD Ryzen™ Embedded  
V1000 and R1000 series  
with Radeon™ Vega Graphics

2 x up to 4K/60Hz monitors  
supported with miniDP, DP  
or HDMI with adapter

24/7 operation

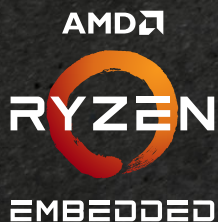
**Design and production  
Made in Germany**

Small and full of power -  
as high as three stacked square  
chocolate bars -  
but without calories

Ideal for use in:

- building automation
- business PCs (office/home office)
- advertising applications
- production
- warehouse/logistics
- micro server
- edge server
- IoT solutions
- workstations
- enterprise and media collaboration

and much more





# SPECIFICATION

## CPU

AMD **V1605<sup>1</sup>** and **V1807<sup>1</sup>**, up to 3.8 GHz,  
up to 4 cores, 8 threads, max. 35W supported

AMD **R1102<sup>1</sup>**, **R1305<sup>1</sup>**, **R1505<sup>1</sup>**, **R1606<sup>1</sup>**,  
up to 3.5 GHz

<sup>1</sup>10 years availability according to CPU manufacturers specification



## Max. memory

**32 GB dual channel DDR4 memory**  
**16 GB single channel DDR4 memory**



Rear connections

## Power Supply

Min. 8V / Max. 32V (DC)

## Max. operating temp.

0°C to +50°C ambient commercial grade -  
other on request;  
V1807 deviating 0 °C to +40 °C

## Max. storage temp.

-40°C to +85°C

## Max. relative humidity

95% @ 40°C, non-condensing

## Housing

Sturdy metal case

## Mounting

Stand alone or VESA

## Dimension approx.

117 x 44 x 113 mm

## Weight approx.

700 grams + options

## Conformity

CE, ROHS, REACH

## OS support

(OS licence is optional)

Microsoft® Windows® 10  
Linux Ubuntu 20.04 LTS

## DP connectors

2 Mini-DP++ connectors up to 4096x2160 @ 60 Hz

## Sound (optional)

3.5mm MIC in / headphone out

## Health monitoring and management

Speed-controlled FAN (PWM + Tacho)  
and hardware monitoring

## SD-Card

1 MicroSD card socket, V3.0 Host Controller  
up to 2.2TB

## TPM

AMD firmware Trusted Platform Module

## Other

Power and status LEDs

## USB ports

1 Dual USB 3.1 Gen2 (10Gb/s, limited by fuse  
protection to: 900mA each)  
1 USB 3.1 Gen2 (10Gb/s, limited by fuse  
protection to: 900mA)

## Serial ports

2 RS-232

## Gigabit Ethernet

2 Intel I1210 with IEEE1588

## WiFi (optional)

802.11 AC with diversity

## SSD (optional)

M.2 SATA or  
up to 2 NVME / 64-512GB

## SD-Card

1 MicroSD card socket

HIGH QUALITY

MADE IN GERMANY



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