

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

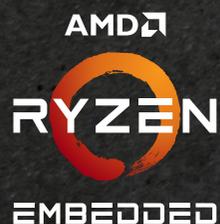
**Design and production
Made in Germany**

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 V1605¹ and V1807¹, up to 3.8 GHz, up to 4 cores, 8 threads, max. 35W supported

AMD R1102¹, R1305¹, R1505¹, R1606¹, up to 3.5 GHz

¹10 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

fTPM

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



The information contained in this document has been carefully checked and is believed to be reliable. However, E.E.P.D. GmbH makes no guarantee or warranty concerning the accuracy of said information and shall not be responsible for any loss or damage of what ever nature resulting from the use of, or reliance upon, it. E.E.P.D. does not guarantee that the use of any information contained herein will not infringe upon the patent, trademark, copyright or other rights of third parties, and no patent or other license is implied hereby. AMD and the AMD logo are trademarks of Advanced Micro Devices, Inc. Intel and the Intel logo are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries. This document does not in any way extend E.E.P.D.'s warranty on any product beyond that set forth in its standard terms and conditions of sale. E.E.P.D. reserves the right to make changes in the products or specifications, or both, presented in this publication at any time and without notice. LIFE SUPPORT APPLICATIONS: E.E.P.D.'s products are not intended for use as critical components in life support appliances, devices or systems in which the failure of a E.E.P.D. product to perform could be expected to result in personal injury. All mentioned trademarks are registered trademarks of their owner. © 2021 by E.E.P.D. GmbH. All rights reserved. October 27 2021 – Version 1.5

E.E.P.D. Electronic Equipment
Produktion & Distribution GmbH

Gewerbering 3

85258 Weichs - Germany

Phone +49 8136 2282-0

Fax +49 8136 2282-109

Internet: www.eepd.de

E-Mail: sales@eepd.de