

EM PRO mini

the professional IT-solution

E.E.P.D. 
...just embedded!



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

3 USB 3.1 Gen1

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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