

EM PRO mini

the professional IT solution

Why EM PRO mini?



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

**Design and production
Made in Germany**

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

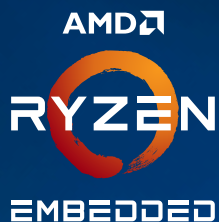
Ideal for use in:

- Building automation
- Business PCs (office/home office)
- advertising applications
- Production
- Warehouse/Logistics
- Micro Server
- Edge Server
- IoT solutions
- Workstations

and much more

24/7 operation

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



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 connectors

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

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

Max. storage temperature
-40°C to +85°C

Max. relative humidity
95% @ 40°C, non-condensing

Housing
Sturdy metal case

Mounting
Stand alone or VESA

Dimensions approx.
117 x 113 x 44 mm

Weight approx.
700 grams + options

Conformity
CE, ROHS, REACH

OS support
(OS licence is optional)
Microsoft® Windows® 10
Linux Ubuntu 20.04 LTS

Display Port 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 und status LEDs

USB ports
1 Dual USB 3.1 Gen2
(10Gb/s, limited to: 900mA)
1 USB 3.1 Gen2
(10Gb/s, limited to: 900mA)

Serial ports
2 RS-232

Gigabit Ethernet
2 Intel® I210 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

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HIGH QUALITY
MADE IN GERMANY