EM PRO midi cube

the ultra-Power-Workstation

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

Why EM PRO midi cube?

AMD Ryzen™ Embedded 8000 series with ultra-efficient „Zen 4" x86 core architecture and powerful AMD RDNA3 Radeon™ Graphics and XDNA Neural Processing Unit for AI Inferencing | max. 8 cores / 16 threads

Preliminary

Ideal for use in:

- Video editing & photo editing
- 3D applications, animation, architectural and product design software
- 2D animation, graphics, illustrator, photography, we bdesign software
- Construction software (e.g. CAD, CAM, electronic design, PCB design)
- Graphic design, product design, game design
- Programming workstations
- Augumented & Virtual Reality

and much more

Ultra-compact, highly efficient and extremely quiet

Design and production Made in Germany

24/7 operation

4 x up to 4K/60Hz monitors supported with mini DP, DP, USB-C-DP Alt Mode and HDMI with adapter

AMD RYZEN Embedded

Specification

CPU
AMD Ryzen™ Embedded 8845HS, 8645HS, 8840U, 8640U
up to 5.1 GHz, up to 8 cores, 16 threads, max. 54 W supported

Max. memory
64 GB dual channel DDR5 memory with ECC support

Rear connections

Power supply
Min. 10.8 V / Max. 26.4 V (DC)

Operating temperature
0 °C to +50 °C commercial grade
- other on request

Storage temperature
-40 °C to +85 °C, non-condensing

Max. relative humidity
95% @ 40 °C, non-condesing while stored | 89% while working

Preliminary

Housing
Sturdy aluminum Housing, black anodized

Kensington Lock

Mounting
Stand alone

Dimensions approx.
148 x 110 x 116 mm

Weight approx.
1.150 grams + options

Conformity
CE, ROHS, REACH

OS support
(OS licence is optional)
Microsoft® Windows® 11
Linux Ubuntu 22.04 LTS

Display-Port connectors
2 Mini Display Port up to 4096 x 2160 @ 60 Hz
2 USB-C-DP Alt Mode connectors up to 4096 x 2160 @ 60 Hz (secondary monitor only)

Sound
3.5 mm MIC in / headphone out

Health monitoring and management
Speed-controlled fan (PWM + Tacho) and hardware monitoring

fTPM + TPM
AMD firmware Trusted Platform Module
Infineon SLB9670 TPM 2.0

Other
Power and status LEDs
Temperature dependent LED for indication of system heat

USB ports
2 USB 3.2 Gen2 (10 Gb/s, OCP = 1500 mA each)

2 USB-C 3.2 Gen2 or USB-C-DP Alt Mode (10 Gb/s, OCP = 3000 mA)

Serial ports
2 RS-232/485 (HDX/FDX)

Gigabit Ethernet
2 Intel® I226-LM / 2.5 Gigabit

WiFi 6 (optional)
802.11 AX

SSD (optional)
1x M.2 NVME / PCIe 4.0 x2 / 2242
1x M.2 NVME / PCIe 4.0 x4 / 2280

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HIGH QUALITY
MADE IN GERMANY