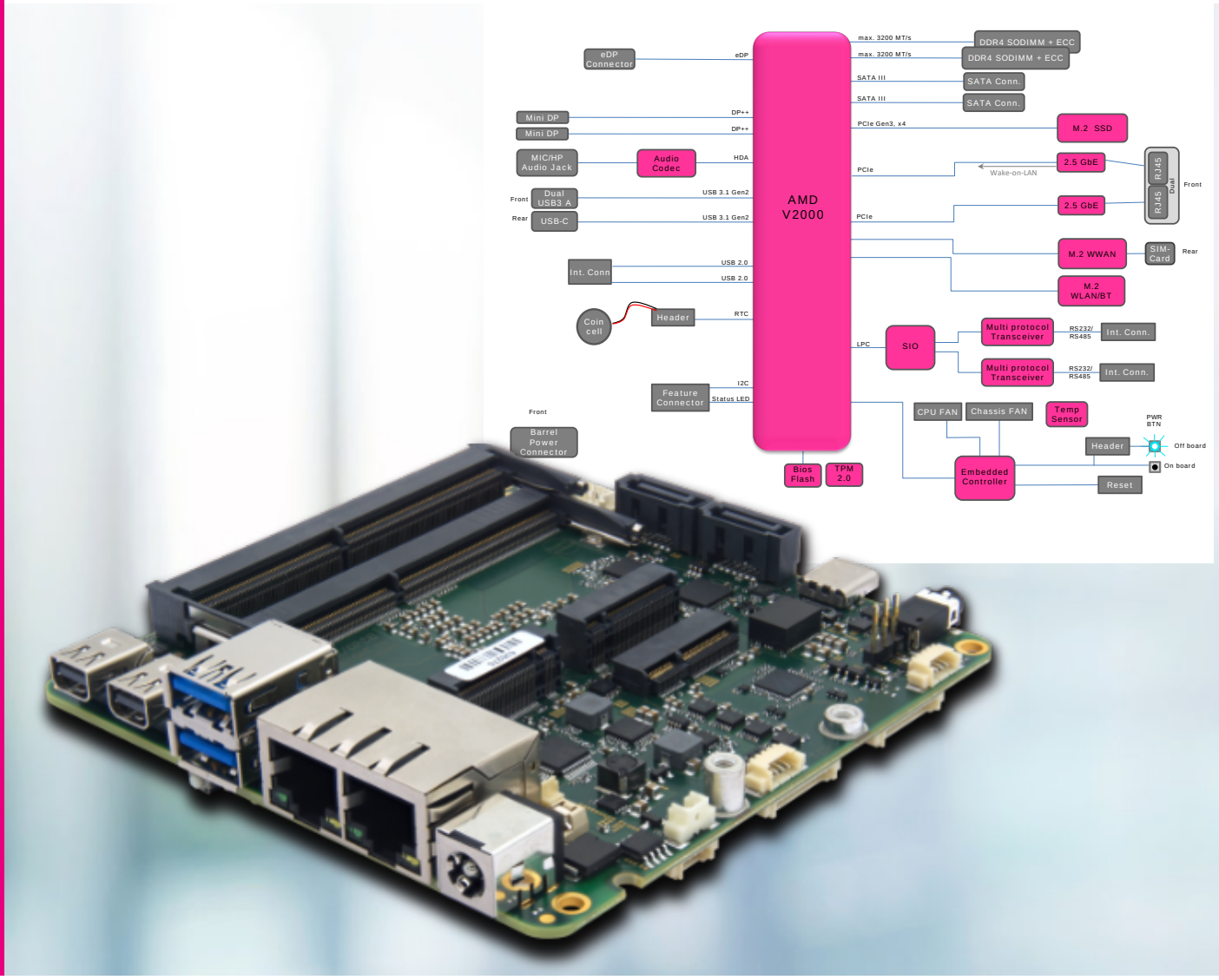
PROFIVE® NUCE

APPLICATIONS

The **PROFIVE® NUCE** was designed as a low power eNUC board with an excellent performance-per-watt ratio and is optimal adapted for:

_ AI Systems
_ Medical Solutions
  AMD Ryzen™ performance
_ ML Machine Learning
_ CV Computer Vision
_ Robotics
_ Micro-Server
_ High-Performance
  Workstations
_ Rugged Industrial Systems
  no rotating parts, low power
_ IoT
  edge / fog gateway

[1]10 years availability according to CPU manufacturers specification



HIGH QUALITY
MADE IN GERMANY

AMD RYZEN EMBEDDED

ISO 9001

10 years long life support [1]

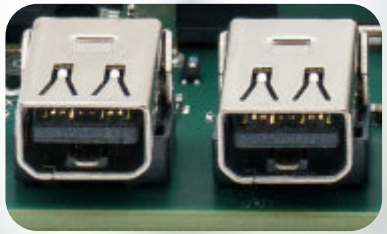
E.E.P.D. ...just embedded!

eNUC 101x101

SPECIFICATIONS

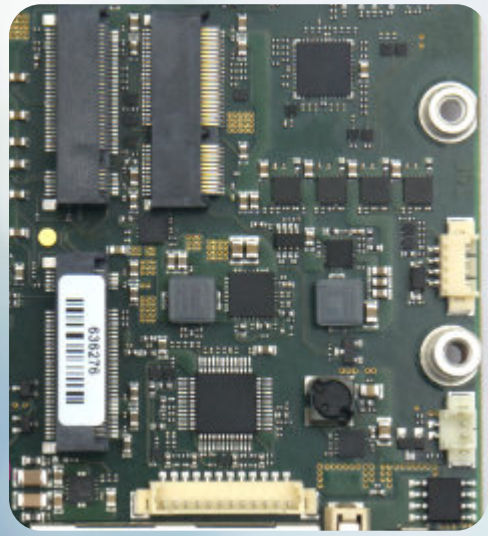
CPU	AMD V2000 series[1] up to 4.25 Ghz, up to 8 cores, 16 threads, max. 54W supported
Max. memory	Up to 32 GB dual channel DDR4-3200 SO-DIMM memory
Gigabit Ethernet	2 Intel® I225 with 2,5 Gbit/s | TSN-support | Wake-On-LAN supported by one port
M.2 socket	1 Key B, 30 mm x 42 mm 1 Key E, 22 mm x 30 mm 1 Key M, 22 mm x 42 mm (SATA or NVMe with PCIex4)
Serial ATA	2 (6G) with separate power connector
USB ports	1 Dual USB 3.1 Gen2 (10Gb/s, fused to: 900mA each) 2 internal USB 2.0 (fused to: 900mA each)
USB-C connector	1 USB-C 3.1 Gen2 or ALT-Mode support (10Gb/s, fused to: 1500mA)
DP connectors	2 Mini-DP++ connectors up to 4096 x 2160 @ 60 Hz
eDP connector	1 eDP max. 3840x2160 with backlight control
Serial port	2 RS-232/485 (HDX/FDX) provided through SUPER I/O
Sound	HDA with MIC in / Headphone out at a 3.5 mm Audio Jack / Line in / Line out
fTPM / TPM	AMD firmware Trusted Platform TPM 2.0 support (Infineon SLB 9670)
Health monitoring and management	Controllable FAN (PWM + Tacho) Hardware monitoring and watchdog
Other	Power and status LEDs, max. 4 GPIO (3.3V) and max. 3 GPO with PWM (3.3V/50kHz)
Power supply	Min. 10.8 V / Max. 26.4 V (DC)
Max. operating temp.	0°C to +60° ambient commercial grade; other on request
Max. storage temp.	-40°C to +85°C
Max. relative humidity	95% @ 40°C, non-condensing
Size approx.	102 mm x 102 mm
OS support	Microsoft® Windows® 11 Microsoft® Windows® 10 Microsoft® Windows® 10 IoT Enterprise Linux Ubuntu 20.04 LTS

Ordering code	Description	Type / Size
NUCEA	eNUC	V2516 | 6C | 12T | 2.1 GHz - 3.95 GHz | 10 - 25W
NUCEB	eNUC	V2718 | 8C | 16T | 1.7 GHz - 4.15 GHz | 10 - 25W
NUCEC	eNUC	V2546 | 6C | 12T | 3.0 GHz - 3.95 GHz | 35 - 54W
NUCED	eNUC	V2748 | 8C | 16T | 2.9 GHz - 4.25 GHz | 35 - 54W
4GB-NUCE_C | 4GB-NUCEE	Main Memory	4GB
8GB-NUCE_C | 8GB-NUCEE	Main Memory	8GB
16GB-NUCE_C | 16GB-NUCEE	Main Memory	16GB
32GB-NUCE_C | 32GB-NUCEE	Main Memory	32GB



Dual-Mini-DP-Support
Single Display Max. 4096 x 2160 @ 60 Hz

Dual 2.5 Gigabit Ethernet



Triple M.2 Sockets / WLAN_BT / 4G_5G

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