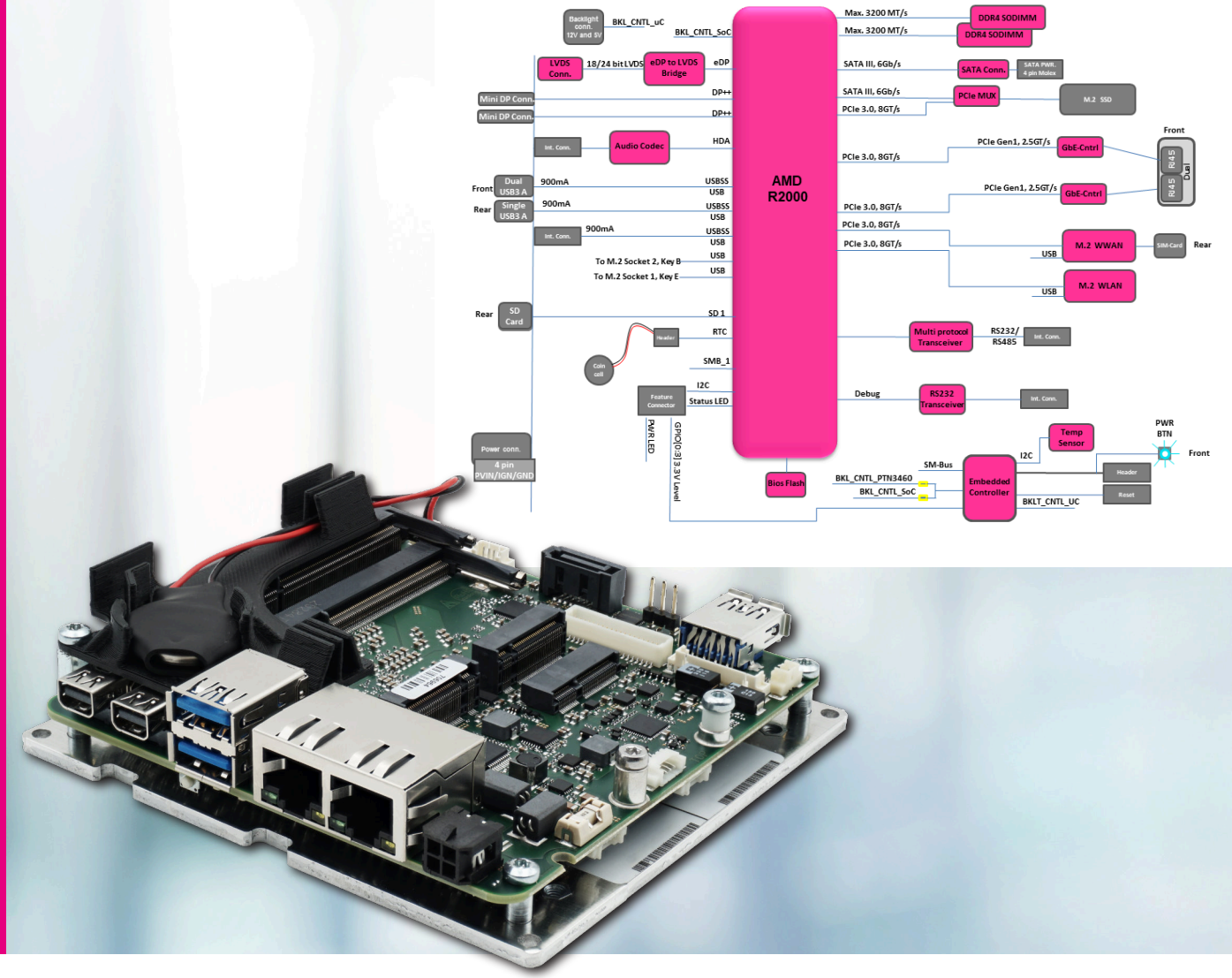
PROFIVE® NUCD_HS

APPLICATIONS

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

- _ AI Systems
- _ ML Machine Learning
- _ CV Computer Vision
- _ Robotics
- _ Mobile Systems
  - automotive power supply
- _ Rugged Industrial Systems
  - no rotating parts, low power
- _ Medical Solutions
  - AMD Ryzen™ performance
- _ IoT
  - edge / fog gateway

[1]10 years availability according to CPU manufacturers specification



HIGH QUALITY
MADE IN GERMANY

AMD RYZEN Embedded

10 years long life support [1]

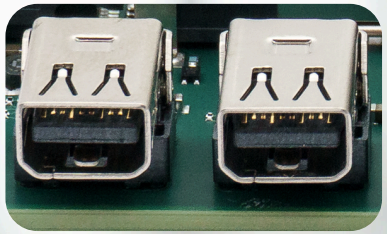
E.E.P.D. ...just embedded!

eNUC 101x101

SPECIFICATIONS

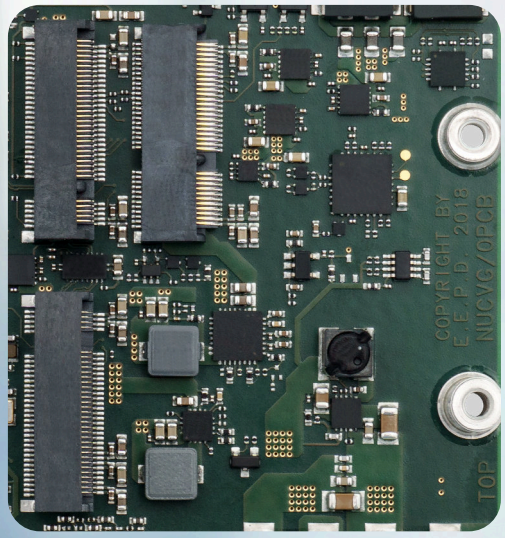
CPU	AMD R2000 series[1], up to 3.7 GHz Up to 4 cores, 8 threads, max. 54 W supported
Max. memory	Up to 32 GB dual channel DDR4 memory
Gigabit Ethernet	2 Intel® I226 with 2,5 Gbit/s with IEEE1588
SD-Card	1 MicroSD-Card socket
M.2 socket	1 Key B, 30 mm x 42 mm with onboard SIM Card socket 1 Key E, 22 mm x 30 mm 1 Key M, 22 mm x 42 mm (for NVMe and SATA only)
USB port	1 Dual USB 3.1 Gen2 (10Gb/s, limited to: 900mA each) 1 Rear USB 3.1 Gen2 (10Gb/s, limited to: 900mA) 1 internal USB 3.1 Gen2 (10Gb/s, limited to: 900mA)
Serial port	1 RS-232 and 1 RS-485
DP connector	2 Mini-DP++ connectors up to 4096 x 2160 @ 60 Hz
Sound	HDA with MIC In / headphone Out / Line In / Line Out
Health monitoring and management	Controllable FAN (PWM + Tacho), hardware monitoring and watchdog
fTPM	AMD firmware Trusted Platform Module TPM 2.0 support (Infineon SLB 9670)
Other	Power and status LEDs, 4 GPIOs (3.3V) and may. 3 GPIOs with PWM (3.3V) 50kHz)
Power supply	Min. 8 V / Max. 32 V (DC) automotive grade | KL15/terminal15
Max. operating temp.	0°C to +60°C ambient commercial grade; sufficient cooling provided; other on request
Max. storage temp.	-40°C to +85°C
Max. relative humidity	95% @ 40°C, non-condensing
Size approx.	111 mm x 31mm x 103 mm
Weight approx.	250g + options
OS support	Microsoft® Windows® 11; Microsoft® Windows® 10 IoT Enterprise; Microsoft® Windows® 10; Linux Ubuntu 20.04 LTS

Ordering code	Description	Type / Size
NUCDAHS	SBC	R2312 | 2C | 4T | 2.7 GHz - 3.5 GHz | 12 - 25W
NUCDBHS	SBC	R2314 | 4C | 4T | 2.1 GHz - 3.5 GHz | 12 - 25W
NUCDCHS	SBC	R2514 | 4C | 8T | 2.1 GHz - 3.7 GHz | 12 - 35W
NUCDDHS	SBC	R2544 | 4C | 8T | 3.35 GHz - 3.7 GHz | 35 - 54W
4GB-NUCD	Main Memory	4GB
8GB-NUCD	Main Memory	8GB
16GB-NUCD	Main Memory	16GB
32GB-NUCD	Main Memory	32GB



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

Dual Gigabit Ethernet



Triple M.2 Sockets / WLAN_BT / 4G_5G / NVME_SATA

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