

PROFIVE® NUCD

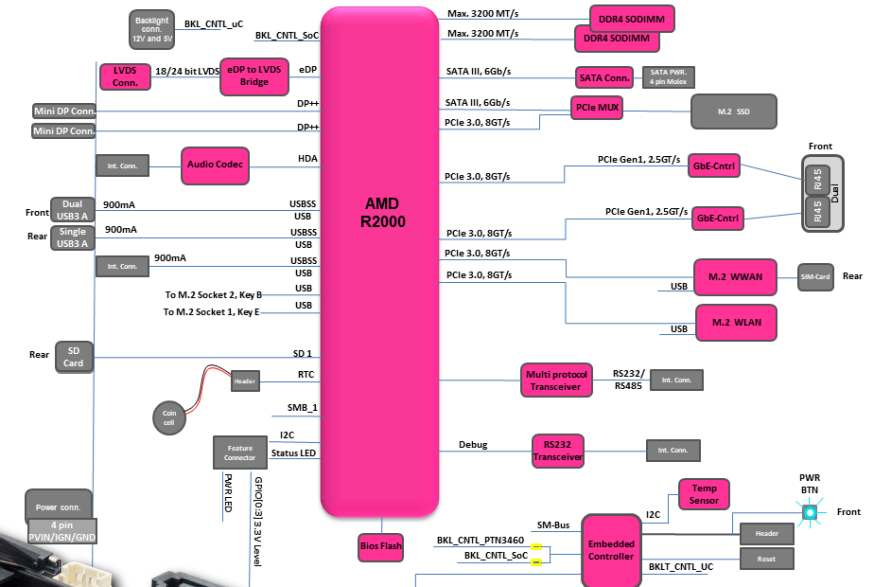
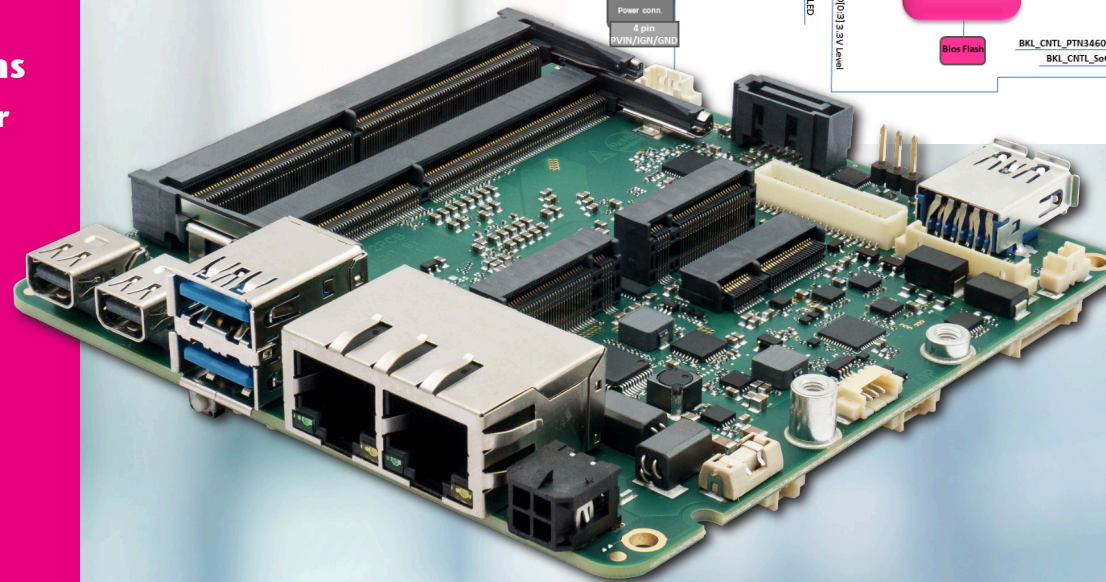


APPLICATIONS

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

110 years availability according to CPU manufacturers specification



HIGH QUALITY
MADE IN GERMANY

AMD
RYZEN
Embedded

10 years
long life
support¹



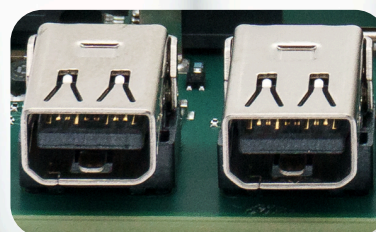
E.E.P.D.
...just embedded!

SPECIFICATIONS

| | |
|----------------------------------|--|
| CPU | AMD R2000 series ¹ , up to 3.7GHz 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) |
| Serial ATA | 1 (6G) with separate power connector |
| USB port | 1 Dual USB 3.1 Gen2 (10Gb/s, fused to: 900mA each) 1 Rear USB 3.1 Gen2 (10Gb/s, fused to: 900mA) 1 internal USB 3.1 Gen2 (10Gb/s, fused to: 900mA) |
| Serial port | 1 RS-232 and 1 RS-485 |
| LVDS connector | 1 dual channel 24-bit (OEM/ODM option) |
| 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 max. 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; 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 22.04 LTS |

eNUC 101x101

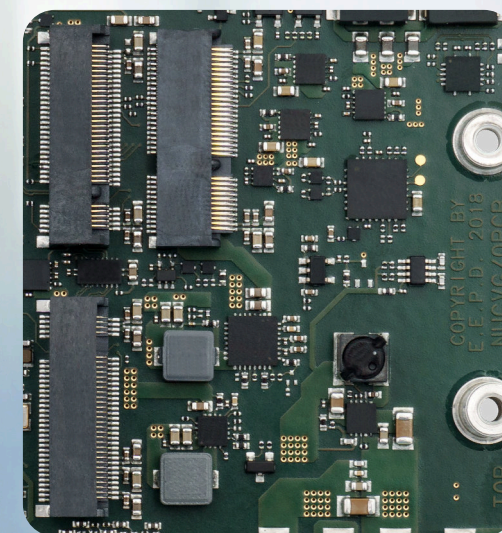
| Ordering code | Description | Type / Size |
|---------------|-------------|---|
| NUCDA | SBC | R2312 2C 4T 2.7 GHz - 3.5 GHz 12 - 25W |
| NUCDB | SBC | R2314 4C 4T 2.1 GHz - 3.5 GHz 12 - 25W |
| NUCDC | SBC | R2514 4C 8T 2.1 GHz - 3.7 GHz 12 - 35W |
| NUCDD | SBC | R2544 4C 8T 3.35 GHz - 3.7 GHz 35 - 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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LIFE SUPPORT APPLICATIONS

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