

# PROFIVE® NUCE

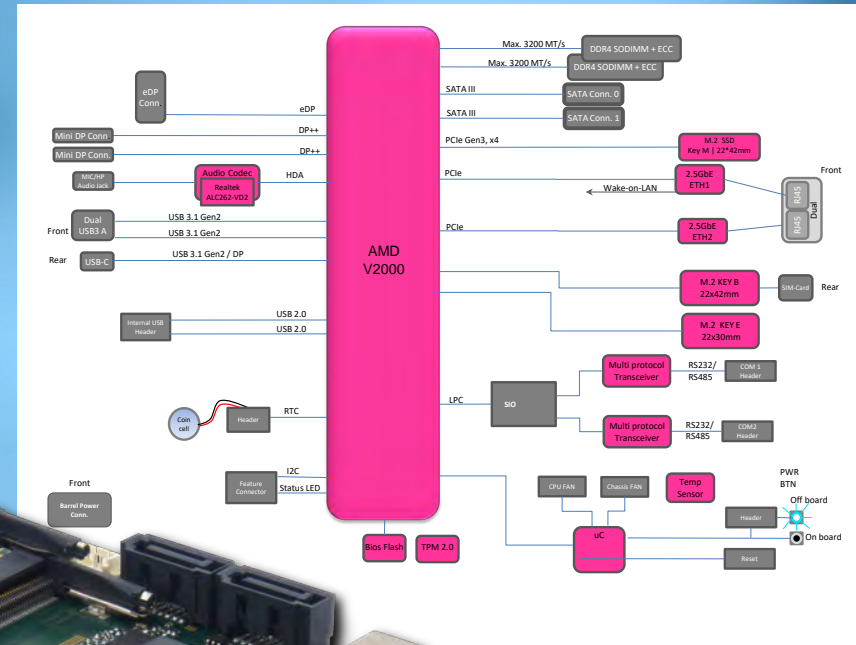


## APPLICATIONS

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

<sup>1</sup>10 years availability according to CPU manufacturers specification



HIGH QUALITY  
MADE IN GERMANY



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

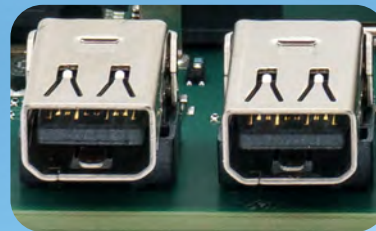
# eNUC 101x101

## SPECIFICATIONS

|                                     |   |
|-------------------------------------|---|
| CPU                                 | AMD V2000 series <sup>1</sup><br>up to 4.25 Ghz, up to 8 cores,<br>16 threads, max. 54W supported       |
| Max. memory                         | 32 GB dual channel DDR4-3200<br>SO-DIMM memory with ECC-support   |
| Gigabit Ethernet                    | 2 Intel® I225 with 2,5 Gbit/s  <br>TSN-support   Wake-On-LAN<br>supported by one port                   |
| M.2 socket                          | 1 Key B, 30 mm x 42 mm<br>1 Key E, 22 mm x 30 mm<br>1 Key M, 22 mm x 42 mm (SATA or<br>NVMe with PCIe4) |
| Serial ATA                          | 2 (6G) with separate power connector  |
| USB ports                           | 2 USB 3.1 Gen2 + 2 USB 2.0 (internal)   |
| USB-C connector                     | 1 USB 3.1 Gen2 or 1 DP++ output<br>up to 4096 x 2160 @ 60 Hz  |
| DP connectors                       | 2 Mini-DP++ connectors<br>up to 4096 x 2160 @ 60 Hz   |
| eDP connector                       | 1 eDP max. 3840x2160 with backlight<br>control  |
| Serial port                         | 2 RS-232/485 (HDX/FDX) provided<br>through SUPER I/O  |
| Sound                               | HDA with MIC in / Headphone out at a<br>3.5 mm Audio Jack / Line in / Line out                          |
| fTPM / TPM                          | AMD firmware Trusted Platform<br>TPM 2.0 support (Infineon SLB 9670)                                    |
| Health monitoring and<br>management | Controllable FAN (PWM + Tacho)<br>Hardware monitoring and watchdog                                      |
| Other                               | Power and status LEDs, max. 4 GPIO<br>(3.3V) and max. 3 GPIO with PWM<br>(3.3V/50kHz)                   |
| Power supply                        | Min. 10.8 V / Max. 26.4 V (DC)  |
| Max. operating temp.                | 0°C to +60° ambient commercial grade;<br>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® 10<br>Microsoft® Windows® 10 IoT Enterprise<br>Linux Ubuntu 20.04 LTS               |

| Ordering Code CPU | Description | Type  |
|-------------------|-------------|---|
| NUCEA             | eNUC        | V2516 / 6C / 12T / 2.1 GHz - 3.95 GHz / 10 - 25 W |
| NUCEB             | eNUC        | V2718 / 8C / 16T / 1.7 GHz - 4.15 GHz / 10 - 25 W |
| NUCEC             | eNUC        | V2546 / 6C / 12T / 3.0 GHz - 3.95 GHz / 35 - 54 W |
| NUCED             | eNUC        | V2748 / 8C / 16T / 2.9 GHz - 4.25 GHz / 35 - 54 W |

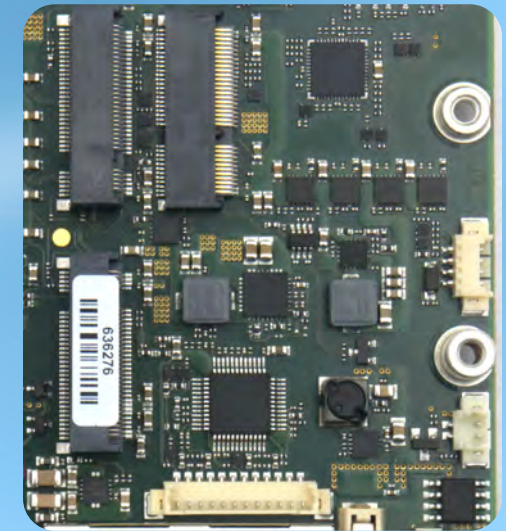
| Ordering Code Memory   | Description | Size |
|------------------------|-------------|------|
| 4GB-NUCE   4GB-NUCEE   | Main Memory | 4GB  |
| 8GB-NUCE   8GB-NUCEE   | Main Memory | 8GB  |
| 16GB-NUCE   16GB-NUCEE | Main Memory | 16GB |



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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LIFE SUPPORT APPLICATIONS

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