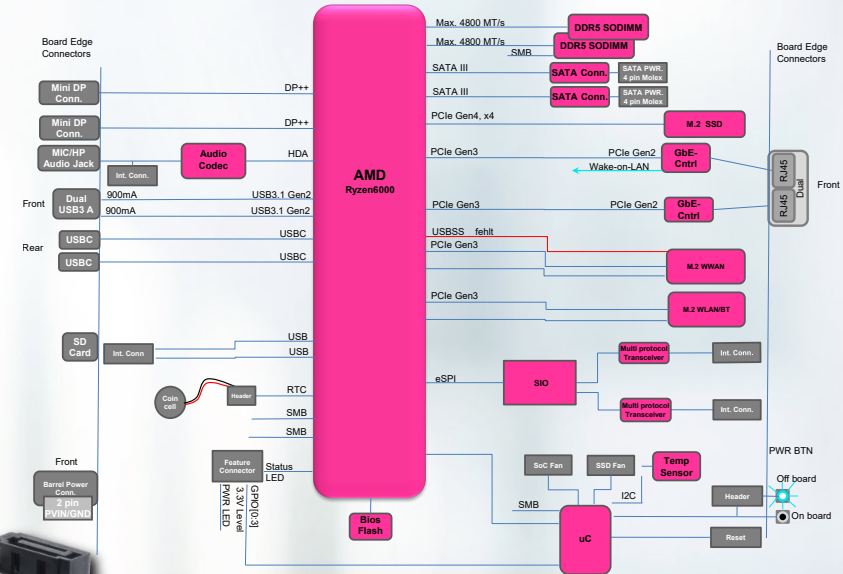
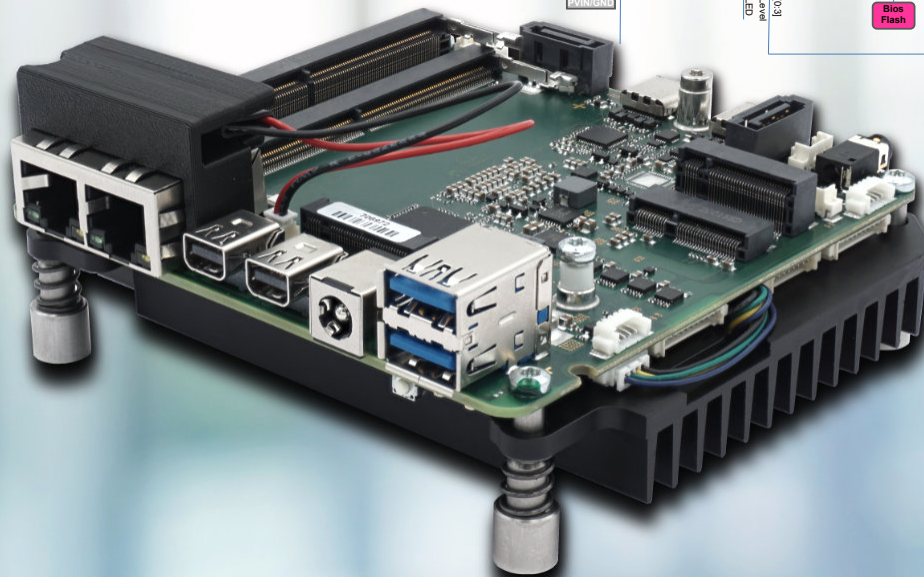


# PROFIVE® NUCS\_C 28W

## APPLICATIONS

The **PROFIVE® NUCS** with **AMD Ryzen™ PRO 6000** was designed as a low power eNUC board with an excellent performance-per-watt ratio. With “**Zen 3” architecture** and **RDNA 2 iGPU** it is ideally suited for:

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



HIGH QUALITY  
MADE IN GERMANY

AMD  
RYZEN  
PRO

5 YEARS  
FORM | FIT | FUNCTION

ISO 9001  
Certified Quality Management System  
www.tuv-sud.com/ms-cert

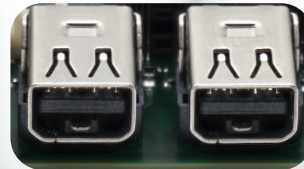
E.E.P.D.   
...just embedded!

# eNUC 101x101

## SPECIFICATIONS

|                                     |  |
|-------------------------------------|--|
| CPU                                 | AMD Ryzen™ PRO 6000 series<br>up to 4.7 GHz, up to 8 cores,<br>16 threads, max. 28W supported                              |
| Max. memory                         | 64 GB dual channel DDR5<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 with onboard<br>SIM Card socket<br>1 Key E, 22 mm x 30 mm<br>1 Key M, 22 mm x 80 mm (for NVMe only) |
| Serial ATA                          | 2 (6G) with separate power connector each  |
| USB ports                           | 1 Dual USB 3.1 Gen2 (10Gb/s, limited to:<br>900mA each)  |
| USB-C connector                     | 2 USB-C 3.1 Gen2 or ALT-Mode support<br>(10Gb/s, limited to 1500mA)  |
| 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)   |
| 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 GPO 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.                        | 113 x 46 x 109 mm  |
| Weight approx.                      | 330g + options   |
| OS support                          | Microsoft® Windows® 11<br>Microsoft® Windows® 10 IoT Enterprise<br>Microsoft® Windows® 10<br>Linux Ubuntu 20.04 LTS        |

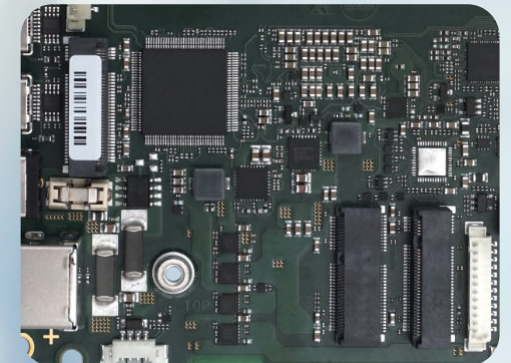
| Ordering code | Description | Type / Size                                     |
|---------------|-------------|---|
| NUCSACO       | SBC         | 6650U   6C   12T   2.9 GHz - 4.5 GHz   15 - 28W |
| NUCSBCO       | SBC         | 6850U   8C   16T   2.7 GHz - 4.7 GHz   15 - 28W |
| 4GB-NUCS      | Main Memory | 4GB   |
| 8GB-NUCS      | Main Memory | 8GB   |
| 16GB-NUCS     | Main Memory | 16GB  |
| 32GB-NUCS     | Main Memory | 32GB  |



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



**Dual 2.5 Gigabit Ethernet**



**Triple M.2 Sockets | 1x 2280 NVMe support**

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LIFE SUPPORT APPLICATIONS

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