

# PROFIVE® NUCP

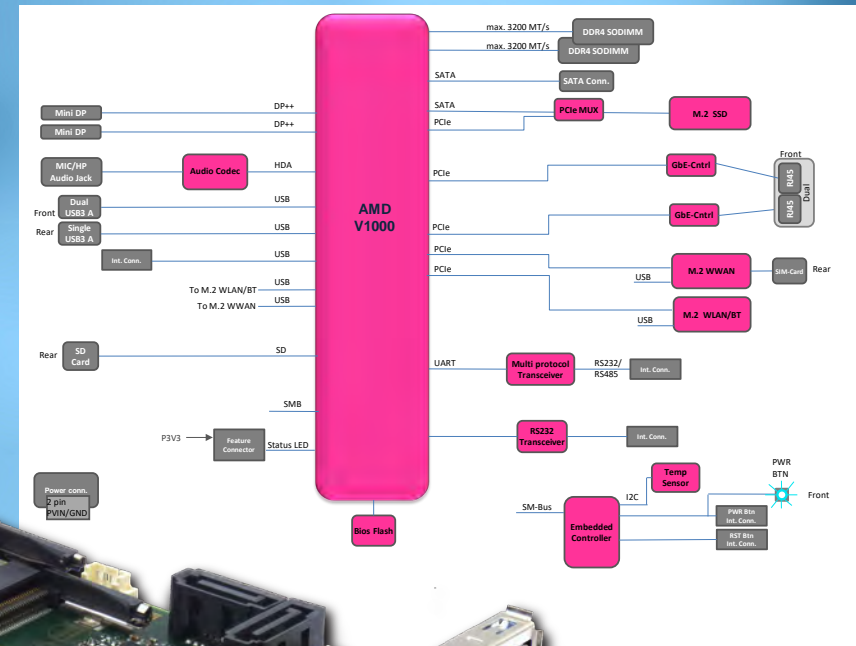
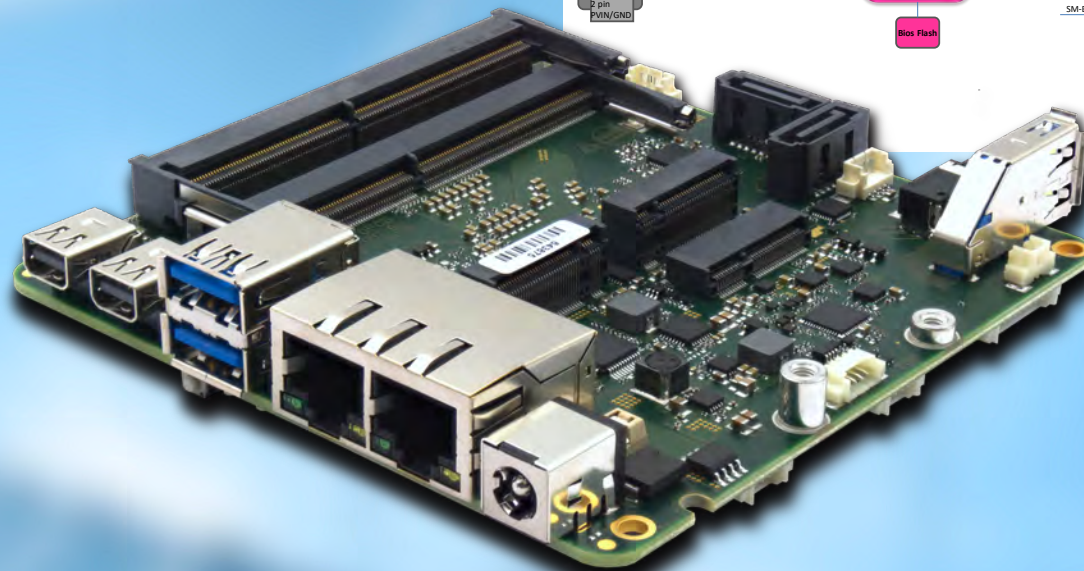


## APPLICATIONS

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

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

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



HIGH QUALITY  
MADE IN GERMANY

10 years  
long life  
support<sup>1</sup>

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

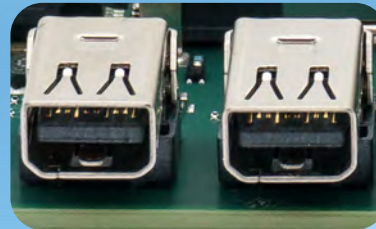
# eNUC 101x101

## SPECIFICATIONS

CPU	AMD V1000 and R1000 series <sup>1</sup> up to 3.8 Ghz, up to 4 cores, 8 threads, max. 54W supported
Max. memory	32 GB dual channel DDR4 memory SO-DIMM memory with ECC-support
Gigabit Ethernet	2 Intel® I210 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)
Serial ATA	2 (6G) with separate power connector
USB port	4 USB 3.1 Gen1
Serial port	1 RS-232 1 RS-232/485 (FDX)
DP connector	2 Mini-DP++ connectors up to 4096 x 2160 @ 60 Hz
Sound	HDA with MIC in / Headphone out at a 3.5 mm Audio Jack / Line in / Line out
Health monitoring and management	Controllable FAN (PWM + Tacho) Hardware monitoring and watchdog
fTPM / TPM	AMD firmware Trusted Platform TPM 2.0 support (Infineon SLB 9670)
Other	Power and status LEDs, max. 6 GPIO (3.3V), max. 3 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® 10 Microsoft® Windows® 10 IoT Enterprise Linux Ubuntu 20.04 LTS

Ordering Code CPU	Description	Type
NUCPA	eNUC	V1756B / 4C / 8T / 3.25 GHz - 3.6 GHz / 35 - 54 W (OEM only)
NUCPB	eNUC	V1807B / 4C / 8T / 3.35 GHz - 3.8 GHz / 35 - 54 W

Ordering Code Memory	Description	Size
4GB-NUCP   4GB-NUCPEE	Main Memory	4 GB
8GB-NUCP   8GB-NUCPEE	Main Memory	8 GB
16GB-NUCP   16GB-NUCPEE	Main Memory	16 GB



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



Dual Gigabit Ethernet



Triple M.2 Sockets / WLAN\_BT / 4G\_5G

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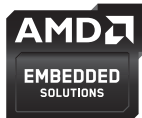
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LIFE SUPPORT APPLICATIONS

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