

# PROFIVE® NUCR

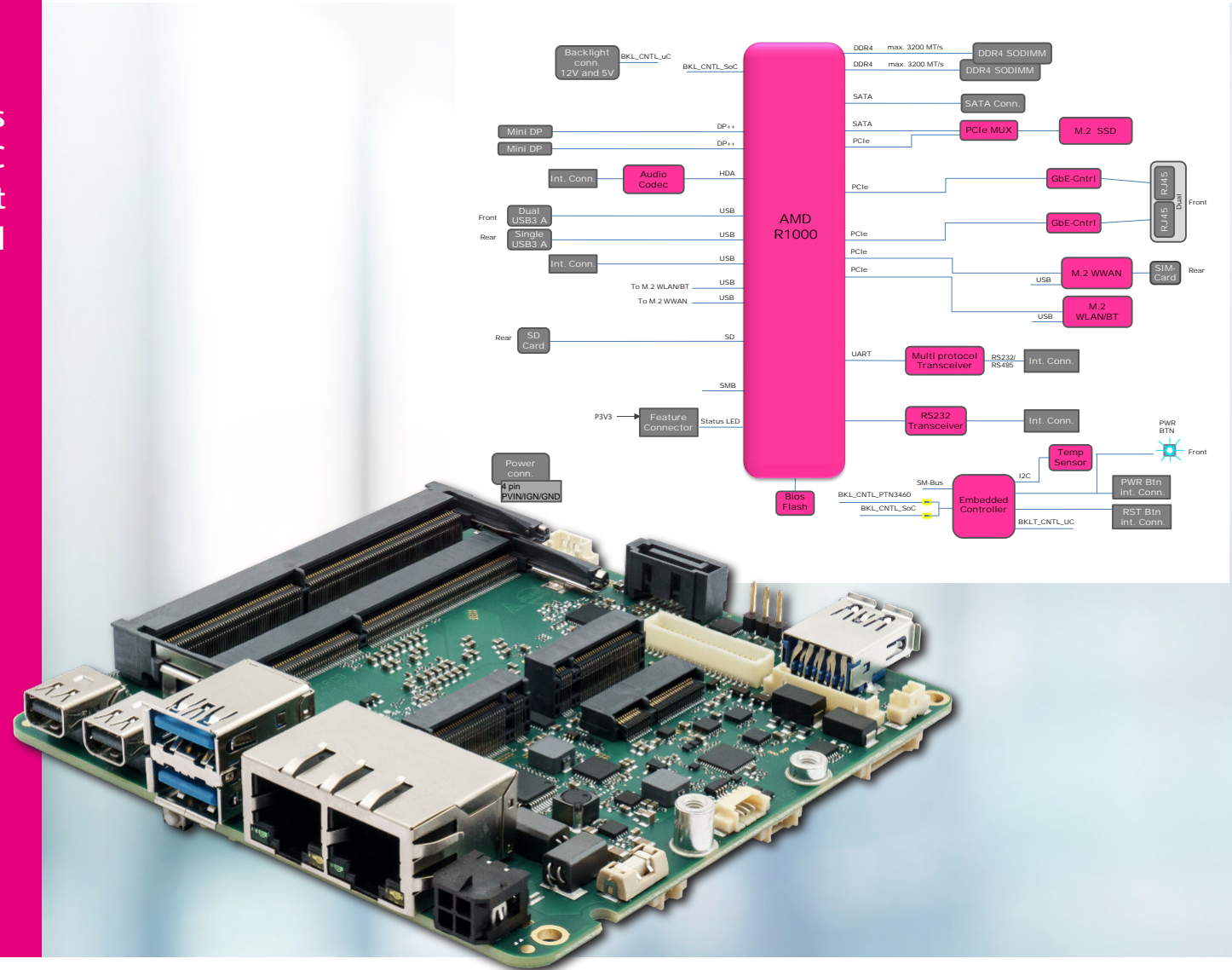


## APPLICATIONS

The **PROFIVE® NUCR** 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

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



HIGH QUALITY  
MADE IN GERMANY

AMD  
**RYZEN**  
EMBEDDED

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



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

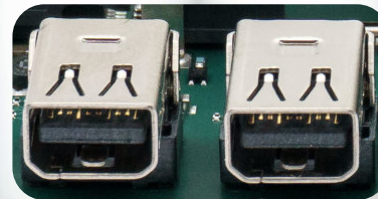
# eNUC 101x101

## SPECIFICATIONS

CPU	AMD R1000 series <sup>1</sup> , up to 3.5 GHz
Max. memory	Up to 32 GB dual channel DDR4 memory (R1102G only: max. 16GB single channel DDR4 memory)
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 and SATA only)
Serial ATA	1 (6G) with separate power connector
USB ports	1 Dual USB 3.1 Gen2 (10Gb/s, fused to: 900mA each) 1 Rear USB 3.1 Gen2 (10Gb/s, fused to: 900mA each)
Serial ports	1 RS-232 1 RS-232/485 (FDX)
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
Health monitoring and management	Controllable FAN (PWM + Tacho), hardware monitoring and watchdog
fTPM	AMD firmware Trusted Platform Module
Other	Power and status LEDs, 2 GPIO (3.3V)
Power supply	Min. 8 V / Max. 32 V (DC) automotive grade   KL15
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® 10; Microsoft® Windows® 10 IoT Enterprise; Linux Ubuntu 20.04 LTS

Ordering Code SBC	Type
NUCRC	R1102G   2C   2T   1.2 GHz - 2.6 GHz   6W
NUCRD	R1305G   2C   4T   1.5 GHz - 2.8 GHz   8 - 10W
NUCRA	R1505G   2C   4T   2.4 GHz - 3.3 GHz   12 - 25W
NUCRB	R1606G   2C   4T   2.6 GHz - 3.5 GHz   12 - 25W (OEM/ODM only)

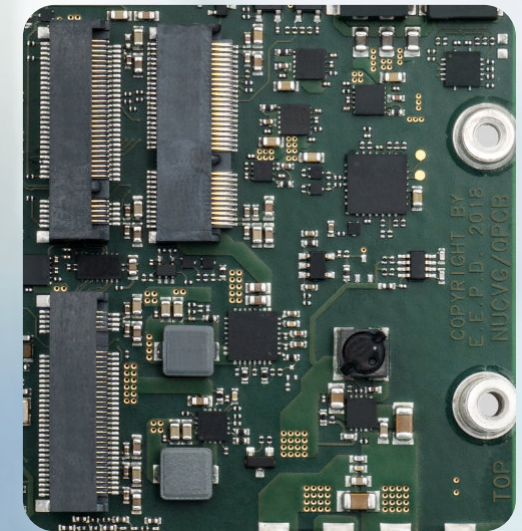
Ordering Code Memory	Size
4GB-NUCR	4 GB
8GB-NUCR	8 GB
16GB-NUCR	16 GB
32GB-NUCR	32 GB



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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