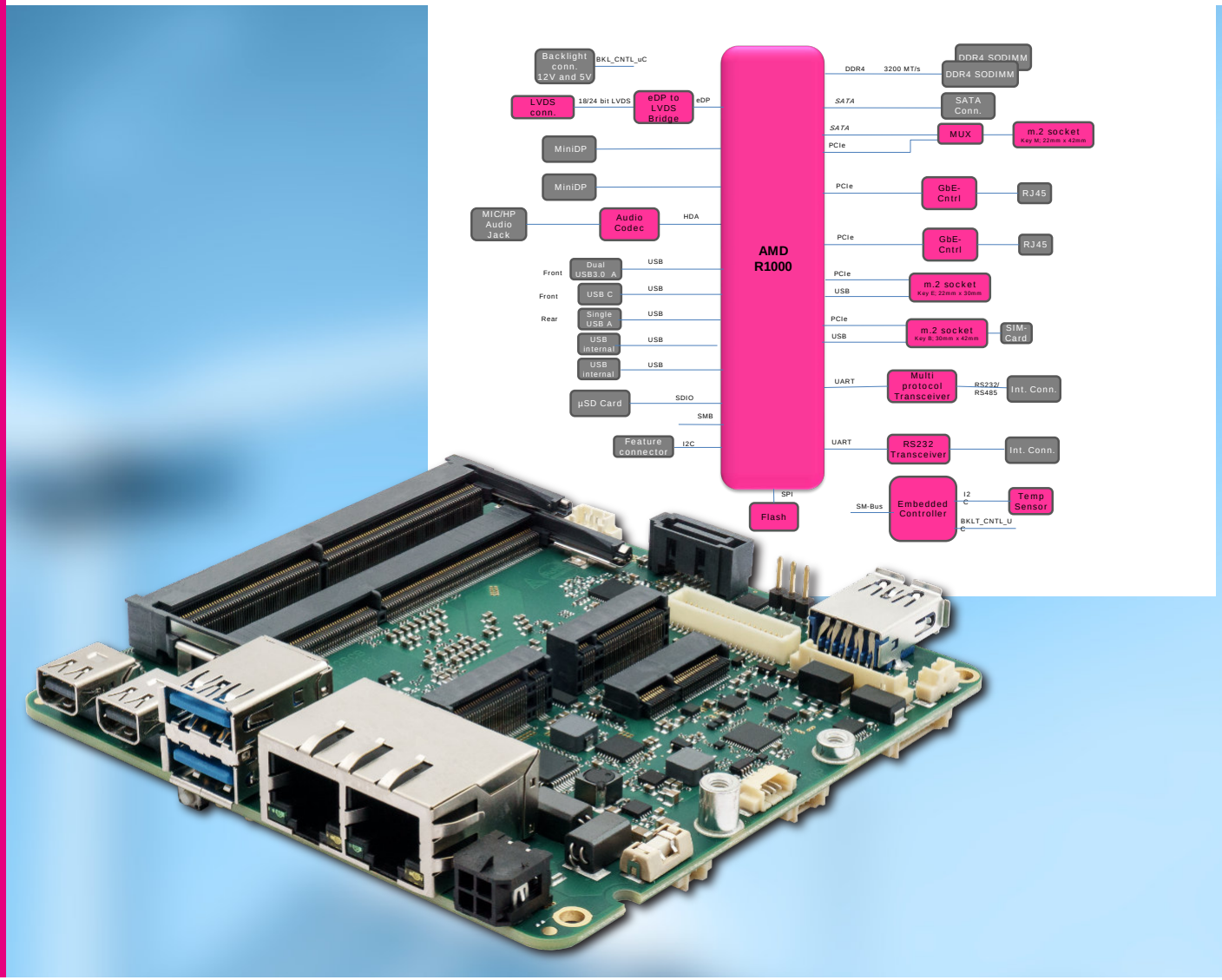
PROFIVE® NUCR

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

[1]10 years availability according to CPU manufacturers specification



HIGH QUALITY
MADE IN GERMANY

10 years long life support [1]

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

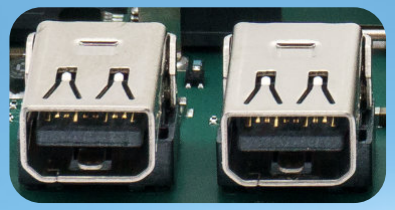
eNUC 101x101

SPECIFICATIONS

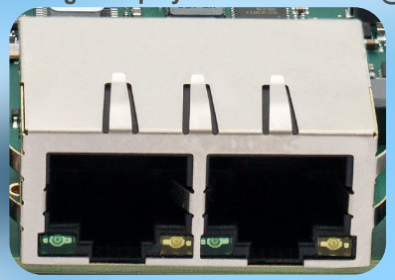
CPU	AMD R1000 series[1], up to 3.5 GHz
Max. memory	32 GB dual channel DDR4 memory
Gigabit Ethernet	2 Intel® I210 with IEEE1588
SD-Card	1 MicroSD-Card socket
M.2 socket	1 Key B, 30 mm x 42 mm with onboard SIM Card socket 1 Key E, 22 mm x 30 mm 1 Key M, 22 mm x 42 mm (for NVMe and SATA only)
Serial ATA	1 (6G) with separate power connector
USB ports	1 Dual USB 3.1 Gen2 (10Gb/s, limited by fuse to: 900mA each) 1 Rear USB 3.1 Gen2 (10Gb/s, limited by fuse protection to: 900mA each)
Serial ports	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
Health monitoring and management	Controllable FAN (PWM + Tacho), hardware monitoring and watchdog
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 CPU	Description	Type
NUCRA	eNUC	R1505G / 2C / 4T / 2.4 GHz - 3.3 GHz / 12 - 25 W
NUCRB	eNUC	R1606G / 2C / 4T / 2.6 GHz - 3.5 GHz / 12 - 25 W

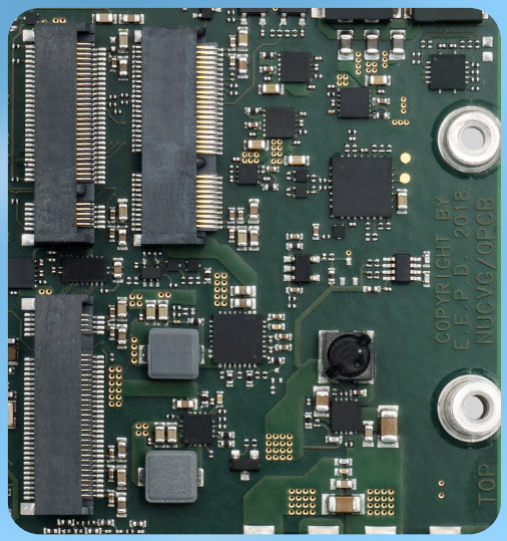
Ordering Code Memory	Description	Size
4GB-NUCR	Main Memory	4 GB
8GB-NUCR	Main Memory	8 GB
16GB-NUCR	Main Memory	16 GB



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



Dual Gigabit Ethernet



Triple M.2 Sockets / WLAN_BT / 4G_5G / NVME_SATA

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