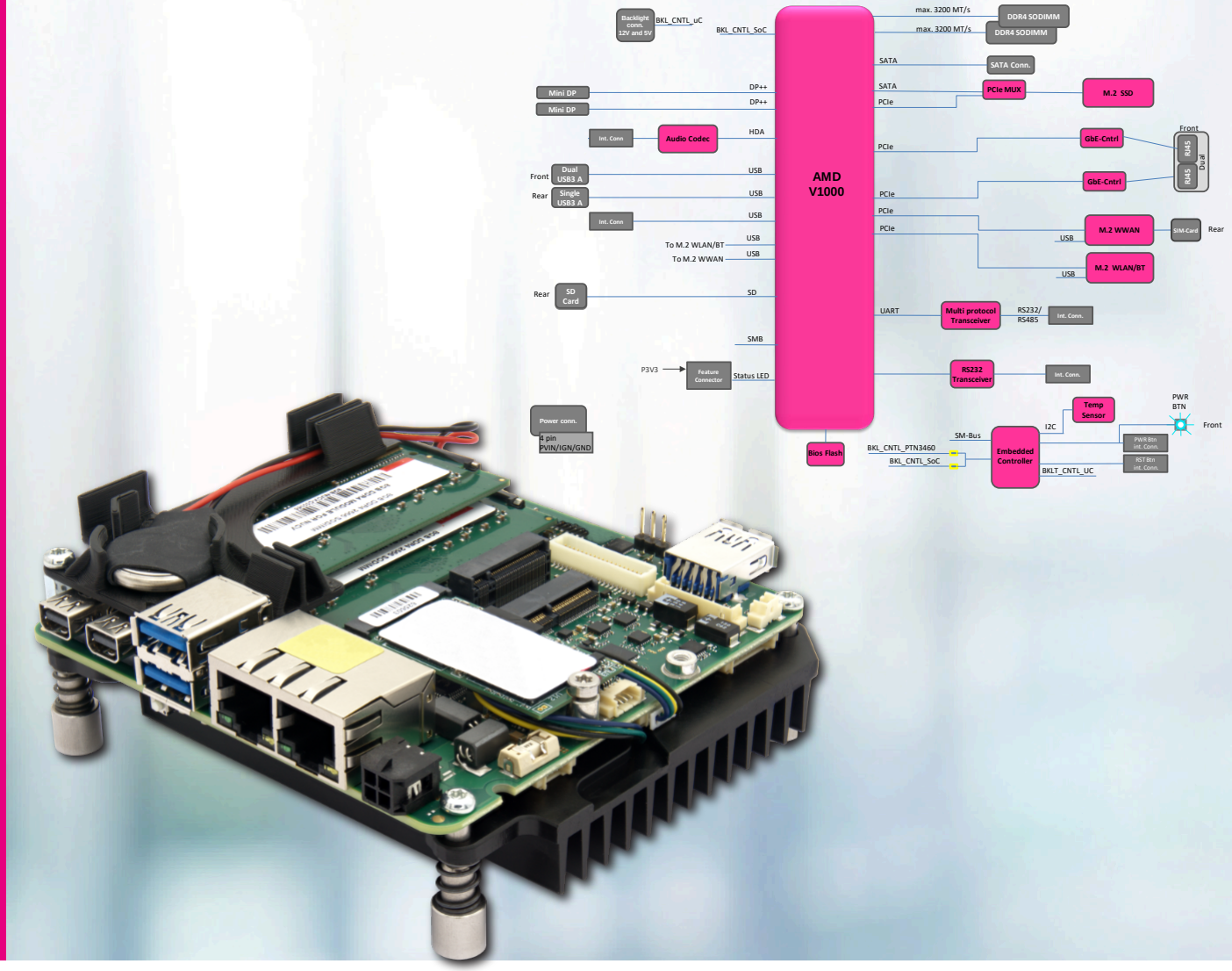
PROFIVE® NUCV_C

APPLICATIONS

The PROFIVE® NUCV 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
[2]The NUCV supports only 35W TDP settings



HIGH QUALITY
MADE IN GERMANY

10 years long life support[1]

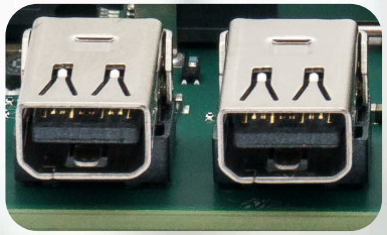
E.E.P.D.
...just embedded!

eNUC 101x101

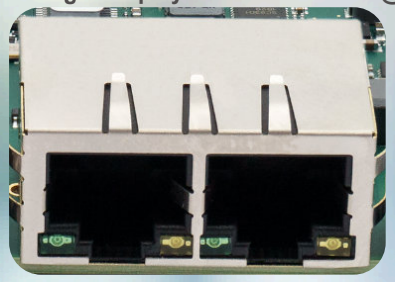
SPECIFICATIONS

CPU	AMD V1000 series[1], up to 3.8 GHz Up to 4 cores, 8 threads, max. 35 W supported
Max. memory	Up to 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)
USB port	1 Dual USB 3.1 Gen2 (10Gb/s, limited by fuse protection to: 900mA each) 1 Rear USB 3.1 Gen2 (10Gb/s, limited by fuse protection to: 900mA) 1 internal USB 3.1 Gen2 (10Gb/s, limited by fuse protection to: 900mA)
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 / Line In / Line Out
Health monitoring and management	Controllable FAN (PWM + Tacho), hardware monitoring and watchdog
fTPM	AMD firmware Trusted Platform Module
Other	Power and status LEDs, 4 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 V1807B deviating 0°C to +50°C V1404I deviating -40°C to +85°C @15W TDP (default) (ATTENTION: This range is only fulfilled if RAM and SSD also meet this specification. CPU throttling can occur above 60°C ambient, depending on the actual installation situation.)
Max. storage temp.	-40°C to +85°C
Max. relative humidity	95% @ 40°C, non-condensing
Size approx.	113 mm x 109 mm x 46 mm
Weight approx.	330g + options
OS support	Microsoft® Windows® 10; Microsoft® Windows® 10 IoT Enterprise; Linux Ubuntu 20.04 LTS

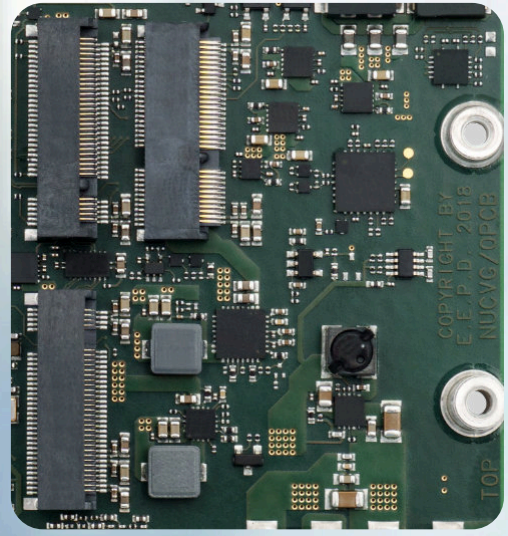
Ordering code	Description	Type / Size
NUCVA_c	eNUC	V1202B | 2C | 4T | 2.3 GHz - 3.2 GHz | 12 - 25W (OEM only)
NUCVFCO	eNUC	V1605B | 4C | 8T | 2.0 GHz - 3.6 GHz | 12 - 25W
NUCVC_C	eNUC	V1756B | 4C | 8T | 3.25 GHz - 3.6 GHz | 35 - 54W[2] (OEM only)
NUCVGCO	eNUC	V1807B | 4C | 8T | 3.35 GHz - 3.8 GHz | 35 - 54W[2]
NUCVHCO	eNUC	V1404I | 4C | 8T | 2.0 GHz - 3.6 GHz | 12 - 25W
4GB-NUCV_C	Main Memory	4GB
8GB-NUCV_C	Main Memory	8GB
16GB-NUCV_C	Main Memory	16GB
32GB-NUCV_C	Main Memory	32GB



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

AMD RYZEN Embedded

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