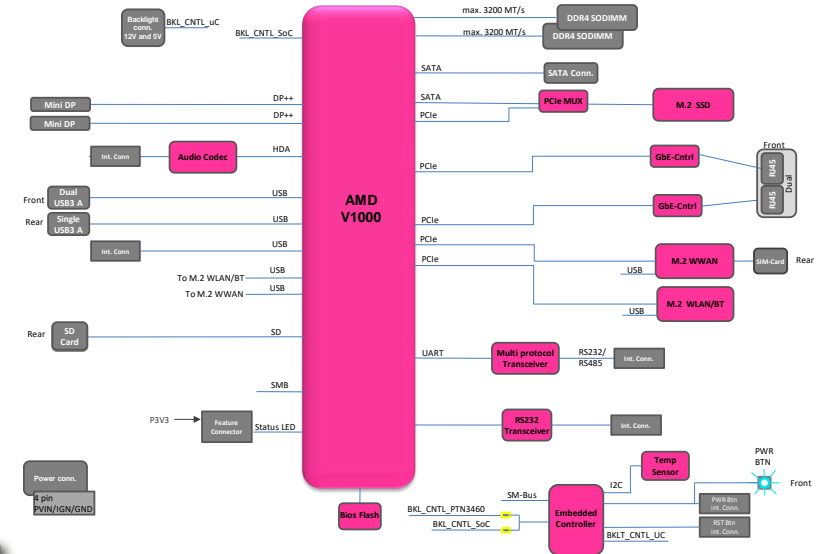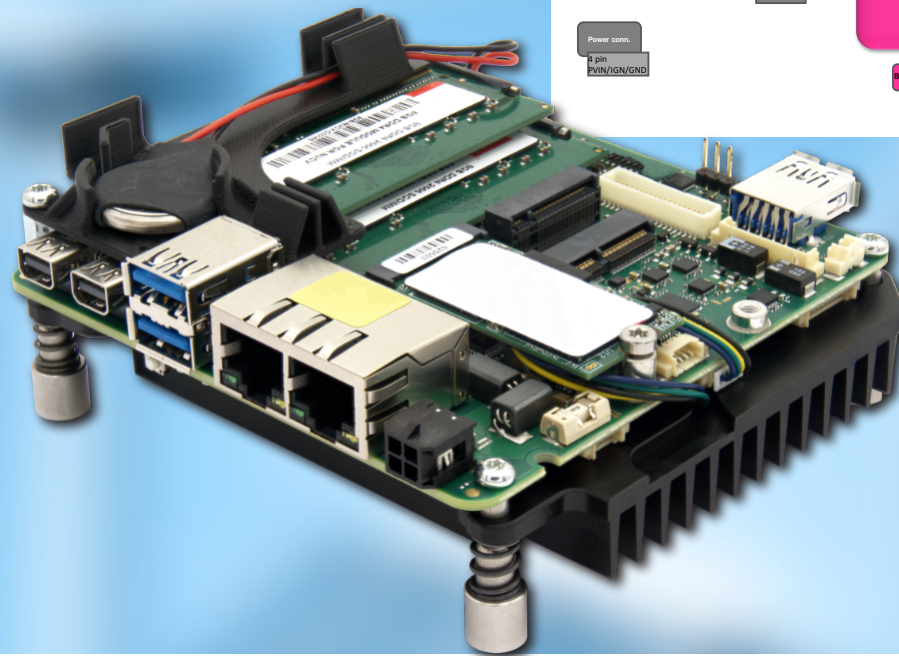# PROFIVE® NUCV_C

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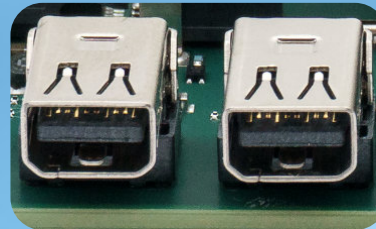
E.E.P.D.
...just embedded!

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	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 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
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 V1807 deviating 0°C to +50°C V1404 deviating -40°C to +85°C (ATTENTION: This range is only fulfilled if RAM and SSD also meet this specification)
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

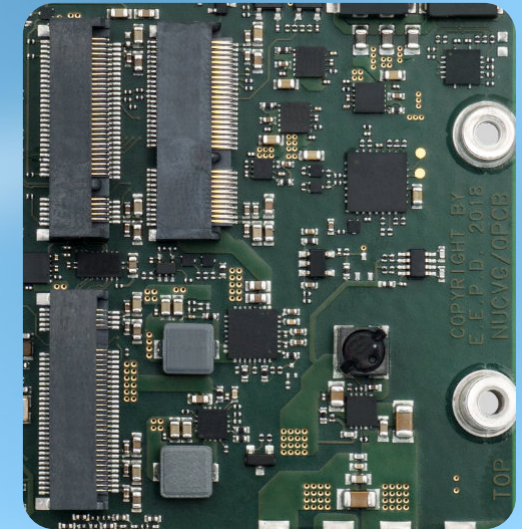| Ordering Code CPU	Description	Type
NUCVA_C	eNUC	V1202B / 2C / 4T / 2.3 GHz - 3.2 GHz / 12 - 25 W (OEM only)
NUCVFCO	eNUC	V1605B / 4C / 8T / 2.0 GHz - 3.6 GHz / 12 - 25 W
NUCVC_C	eNUC	V1756B / 4C / 8T / 3.25 GHz - 3.6 GHz / 35 - 54 W[2] (OEM only)
NUCVGCO	eNUC	V1807B / 4C / 8T / 3.35 GHz - 3.8 GHz / 35 - 54 W[2]
NUCVHCO	eNUC	V1404I / 4C / 8T / 2.0 GHz - 3.6 GHz / 12 - 25 W

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