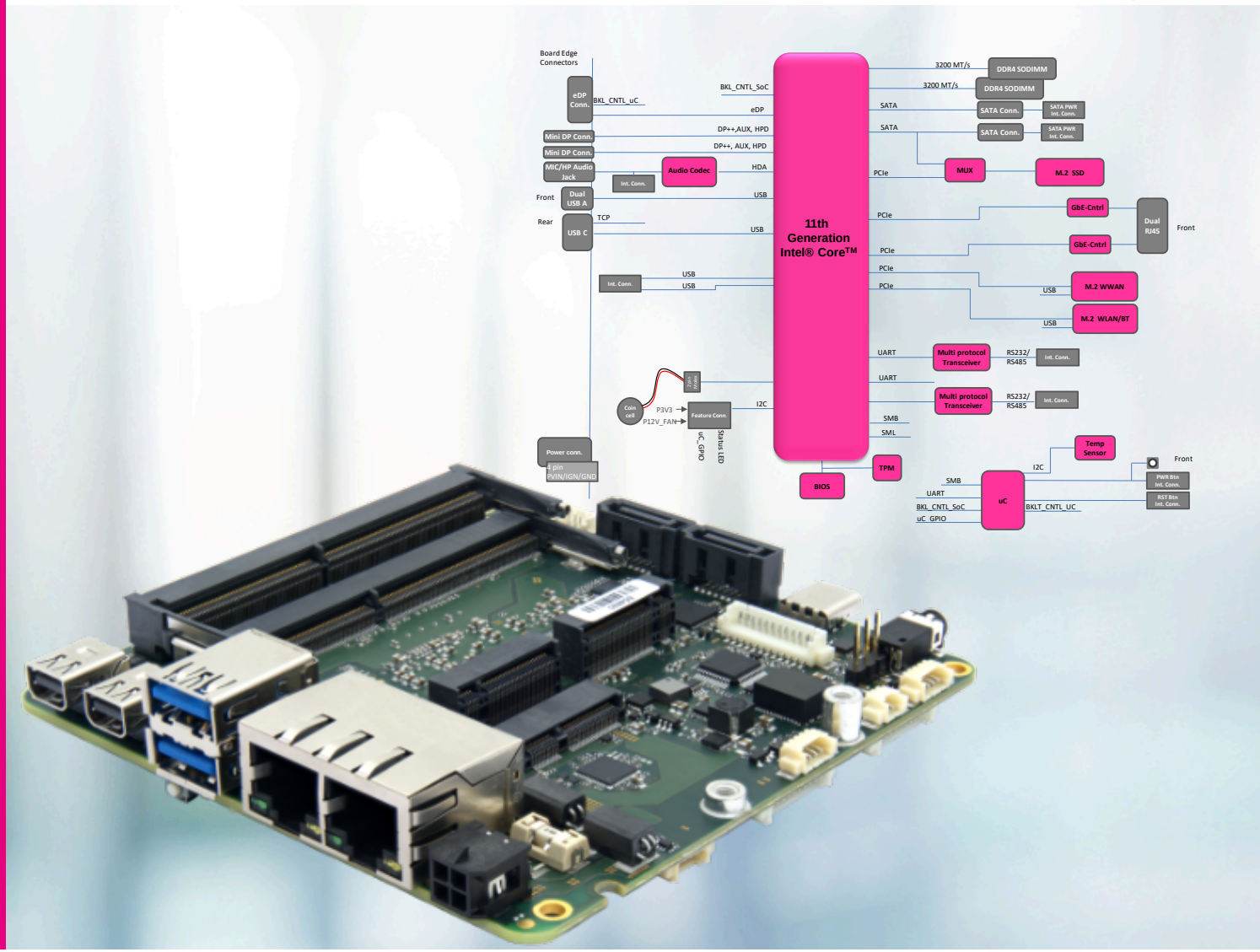
PROFIVE® NUCT

APPLICATIONS

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

_ Rugged Industrial Systems
no rotating parts, low power, extended temperature
_ Medical Solutions
_ CV Computer Vision
_ Robotics
_ Micro-Server
_ High-Performance Workstations
_ IoT
edge / fog gateway



[1]15 years availability according to CPU manufacturers specification

HIGH QUALITY
MADE IN GERMANY

15 years long life support [1]

intel IoT Solutions Alliance

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

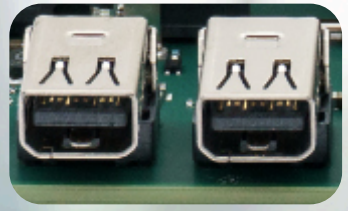
eNUC 101x101

SPECIFICATIONS

CPU	Intel® Celeron® Processor 6000 Series[1] 11th Generation Intel® Core™ i3, i5 and i7 Processors[1] up to 4 cores, 8 threads, max. 28W supported
Max. memory	32 GB dual channel DDR4-3200 SO-DIMM memory; industrial grade variants with In-Band ECC
Gigabit Ethernet	2 Intel® I226 with 2,5 Gbit/s with IEEE1588, TSN-support, Wake-On-Lan supported by one port
M.2 socket	1 Key B, 30 mm x 42 mm 1 Key E, 22 mm x 30 mm 1 Key M, 22 mm x 42 mm (NVMe with PCIex4)
Serial ATA	Up to 2 (6G) with seperate power connector
USB ports	2 USB 3.1 Gen2 (10Gb/s, fused to: 900mA each) 2 internal USB 2.0 (fused to: 900mA each)
USB-C connector	1 USB-C 3.1 Gen2 (10Gb/s, fused to: 1500mA) or 1 DP++ output up to 4096 x 2160 @ 60 Hz
DP connectors	2 Mini-DP++ connectors up to 4096 x 2160 @ 60 Hz
eDP connector	1 eDP max. 4096x2304 @ 60 Hz with backlightcontrol
Serial port	2 RS-232/485 (HDX/FDX)
Sound	HDA with MIC in / Headphone out at a 3,5 mm Audio Jack / Line in / Line out
TPM	TPM 2.0 support (Infineon SLB 9670)
Health monitoring and management	Controllable FAN (PWM + Tacho) Hardware monitoring and watchdog
Other	Power and status LEDs, max. 4 GPIO (3.3V) and max. 3 GPIO with PWM (3,3V/50kHz)
Power supply	Min. 8 V / Max. 32 V (DC) automotive grade | KL15
Max. operating temp.	0°C to +60°C ambient commercial grade; -40°C to +85°C ambient industrial grade Depending on variant
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	Type	Max. operating temp.
NUCTA	INTC6305E / 2C / 2T / 1,8 GHz / 15W	0°C to +60°C
NUCTB	I3-1115G4E / 2C / 4T / 2,2 GHz - 3,9 GHz / 12 - 28W	0°C to +60°C
NUCTC	I5-1145G7E / 4C / 8T / 1,5 GHz - 4,1 GHz / 12 - 28W	0°C to +60°C
NUCTD	I7-1185G7E / 4C / 8T / 1,8 GHz - 4,4 GHz / 12 - 28W	0°C to +60°C
NUCTE	I3-1115GRE / 2C / 4T / 2,2 GHz - 3,9 GHz / 12 - 28W	-40°C to +85°C
NUCTF	I5-1145GRE / 4C / 8T / 1,5 GHz - 4,1 GHz / 12 - 28W	-40°C to +85°C
NUCTG	I7-1185GRE / 4C / 8T / 1,8 GHz - 4,4 GHz / 12 - 28W	-40°C to +85°C

Ordering Code Main Memory	Size
4GB-NUCT	4 GB
8GB-NUCT	8 GB
16GB-NUCT	16 GB



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

Dual Gigabit Ethernet

Triple M.2 Sockets

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LIFE SUPPORT APPLICATIONS

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