

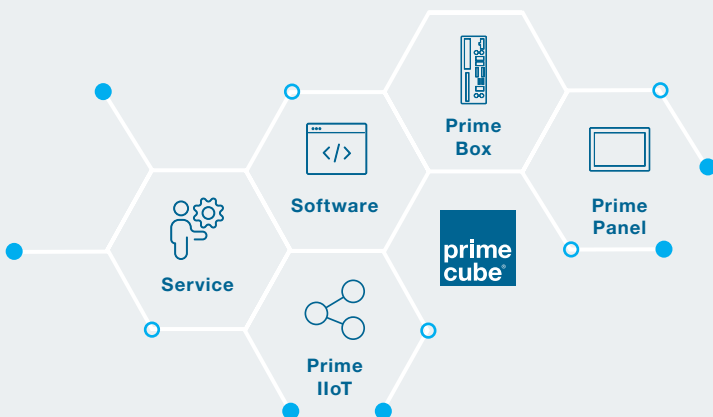
## PRIME BOX PERFORMANCE THE INDUSTRIAL BOX PC FOR DEMANDING TASKS

FACT SHEET

- Flexible and extensive connectivity
- Comprehensive selection of x86-processors
- Robust system design for high demands
- Fanless CPU and system cooling



### THE MODULAR SYSTEM PRIME CUBE®



#### Modular

Customized solutions of industrial computer technology with all advantages of standard products: Validated platforms, short development process, optimum price-performance ratio.



#### High Quality

For 24/7 operation in an industrial environment. Reliable and robust. Long-term available (10 years), with 36 months of warranty.



#### Application-oriented & Customizable

BASE / STYLE / CUSTOM

**We are your partner in the complete solution process of industrial computer technology.**

From sensor application to tool monitoring in the machine and from embedded computing systems to a future-oriented IoT gateway concept we represent all product steps with our product brands Prime Cube® and BK Mikro®. At our headquarters in Neuhausen ob Eck (Baden-Württemberg) our 170 employees develop and manufacture customized computer systems: from hardware and software to assemblies and complete systems - innovative force "Made in Germany."



# PRIME BOX PERFORMANCE

## TECHNICAL DATA

prime  
cube®

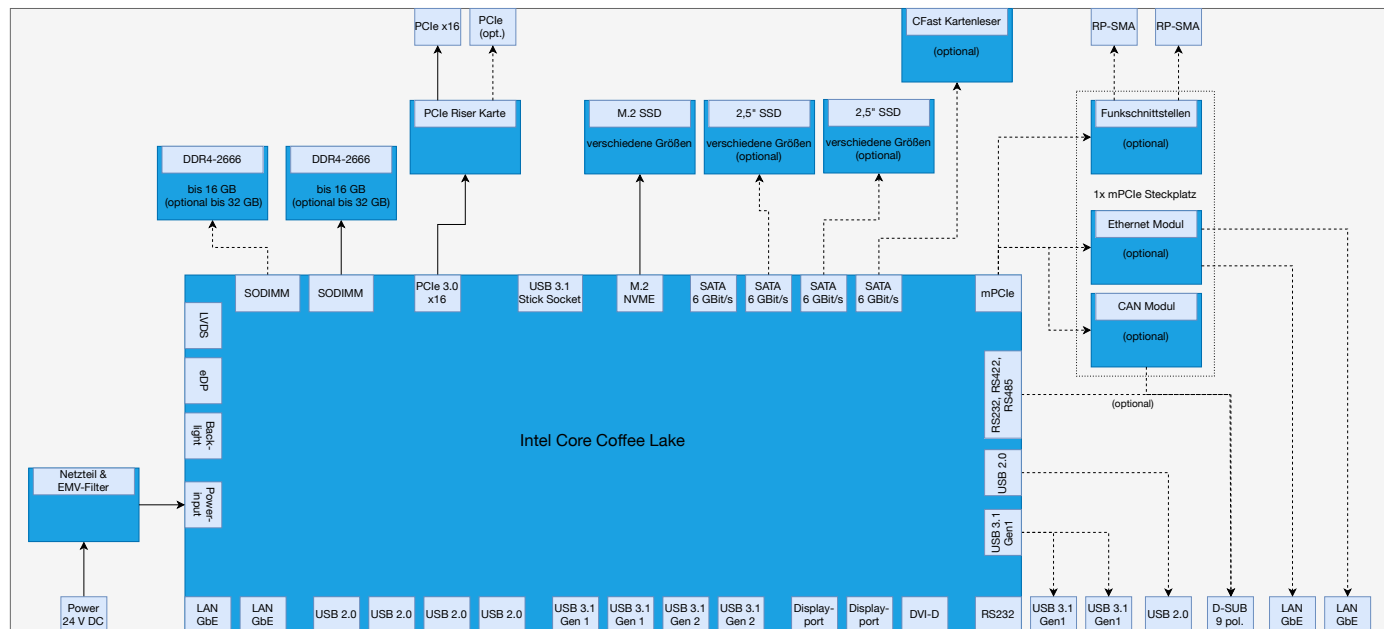
DESIGN		PRIME BOX PERFORMANCE
<b>Model Code</b>		PBI1000ED_112
<b>Dimensions (WxHxD)</b>		132 x 300 x 210.3 mm (without mounting clamps)
<b>Weight</b>		6,25 kg
<b>Housing</b>		Aluminium housing, powder-coated. Stainless steel rear wall. Aluminium heat sink, anodized. Designed for wall mounting.
<b>Protection Class</b>		IP20 acc. EN 60529
<b>Computer</b>		Processor Intel® CELERON™ G4900T 8th Gen Intel® Core™ i3-8100T; i5-8500T; i7-8700T; 9th Gen Intel® Core™ optional
<b>Working Memory</b>		Up to 32 GB DDR4-2666; 64 GB optional 2x SODIMM, dual channel
<b>Mass Storage</b>		1x M.2: 64 GB - 512 GB, flash memory Up to 2x 2.5" SSD: 64 GB - 512 GB, flash memory or 1 TB HDD RAID Level 0 or 1 optional. Further memory sizes and flash technologies available.
<b>Extensions</b>		1x mPCIe full-/half size 1x PCIe Slot x16; second PCIe-Slot optional. 1x DSUB 9 pol
<b>Removable Storage (optional)</b>		1x CFAST holder. Optional incl. CF-card
<b>Interfaces (standard)</b>		2x GbE LAN, separate controllers, Intel® I219-LM & I210-AT 4x USB 2.0 1x USB 3.1 stick socket 2x USB 3.1 Gen. 1 2x USB 3.1 Gen. 2 1x RS232 2x PS/2 1x line in; 1x line out 2x DisplayPort 1x DVI-D
<b>Interfaces (extendable)</b>	<b>DSUB 9 pol</b>	1x RS232/422/485
	<b>mPCIe</b>	2x GbE LAN, separate controllers, Intel® I210 1x CAN, 2-fold DSUB 9 pol (Profibus, Profinet and further fieldbusses feasible) 1x WLAN and BLUETOOTH 1x mobile radio
	<b>PCIe-Slot Bracket</b>	1x USB 2.0 2x USB 3.1 Gen. 1
<b>Battery</b>		Buffer battery based
<b>Voltage Supply</b>		24 V DC (18 ... 36 V DC), galvanically insulated
<b>Operating System</b>		Windows 10 IoT Enterprise 2019 LTSC LINUX 64bit: Debian 10 distribution
<b>Ambient Temperature*</b>		-10 °C ... +45 °C with natural convection (up to +40 °C when using a HDD) -10 °C ... +50 °C from 0.4 m/s air flow (up to +40 °C when using a HDD)
<b>Storage Temperature</b>		-20 °C ... +60 °C
<b>Humidity</b>		10% ... 90%, non-condensing
<b>EMC Interference Immunity</b>		Industrial area acc. EN 55024 & EN 61000-6-2
<b>EMC Emitted Interference</b>		Industrial area acc. EN 55032 class A
<b>Shock</b>		15 g: 11 ms and 25 g: 6 ms acc. DIN EN60068-2-27
<b>Vibration</b>		2 ... 9 Hz: 3.5 mm amplitude, 9 ... 200 Hz: 1 g acc. EN 60068-2-6
<b>Warranty</b>		36 months
<b>Approvals</b>		CE; UL in testing; acc. UL 61010-2-201 & CSA C22.2 no. 61010-2-201

\* test conditions: 14 W USB-load, 100% CPU-load, 100% RAM-load, 100% SSD-load

Please find dimensional drawings as downloads on our [website](#). 3D-models on request via e-mail to [vertrieb@schubert-system-elektronik.de](mailto:vertrieb@schubert-system-elektronik.de).

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# PRIME BOX PERFORMANCE CIRCUIT DIAGRAM



Please find dimensional drawings as downloads on our [website](#). 3D-models on request via e-mail to [vertrieb@schubert-system-elektronik.de](mailto:vertrieb@schubert-system-elektronik.de).

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