

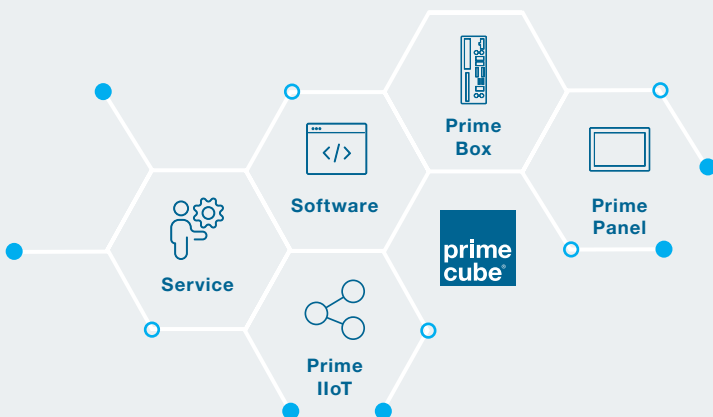
PRIME BOX PERFORMANCE THE INDUSTRIAL BOX PC FOR DEMANDING TASKS

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 IIoT 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."



DESIGN		PRIME BOX PERFORMANCE
Model Code		PBI1000ED_112
Dimensions (WxHxD)		132 x 300 x 210.3 mm (without mounting plates)
Weight		6,25 kg
Housing		Aluminium housing, powder-coated. Stainless steel rear wall. Aluminium heat sink, anodized. Designed for wall mounting.
Protection Class		IP20 acc. EN 60529
Processor		Intel® CELERON™ G4900T 8th Gen Intel® Core™ i3-8100T; i5-8500T; i7-8700T; 9th Gen Intel® Core™ optional.
Working Memory		Up to 2 x 16 GB DDR4-2666; max. 2 x 32 GB optional. 2x SODIMM, dual channel
Mass Storage		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.
Extensions		1x mPCIe full-/half size 1x PCIe Slot x16; second PCIe-Slot optional. 1x DSUB 9 pol
Removable Storage (optional)		1x CFast holder. Optional incl. CF-card
Interfaces (Mainboard)		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
Interfaces (extendable)	DSUB 9 pol	1x RS232/422/485 (standard configuration)
	mPCIe	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
	PCIe-Slot Bracket	1x USB 2.0 2x USB 3.1 Gen. 1
Battery		Buffer battery based
Voltage Supply		24 V DC (18 ... 36 V DC), galvanically isolated
Operating System		Windows 10 IoT Enterprise 2019 LTSC LINUX 64bit: Debian 10 distribution
Ambient Temperature*		-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 +45 °C when using a HDD)
Storage Temperature		-20 °C ... +60 °C
Humidity		10% ... 90%, non-condensing
EMC Immunity		Industrial area acc. EN 55024 & EN 61000-6-2
EMC Emission		Industrial area acc. EN 55032 class A
Shock		15 g: 11 ms and 25 g: 6 ms acc. DIN EN60068-2-27
Vibration		2 ... 9 Hz: 3.5 mm amplitude, 9 ... 200 Hz: 1 g acc. EN 60068-2-6
Warranty		36 months
Approvals		CE; UL in testing; acc. UL 61010-2-201 & CSA C22.2 no. 61010-2-201

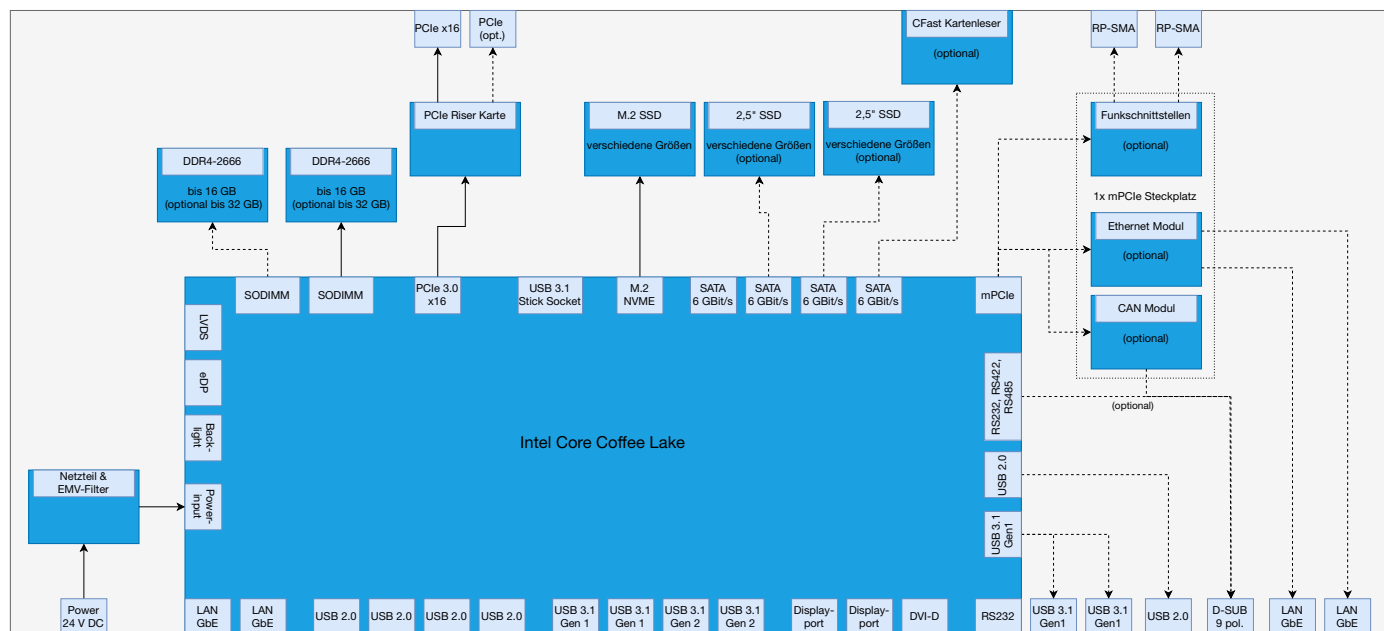
* Functional system test at maximum ambient temperature and the highest possible internal heat load.

** not evaluated by UL.

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

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PRIME BOX PERFORMANCE CIRCUIT DIAGRAM



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