

## PRIME BOX PERFORMANCE

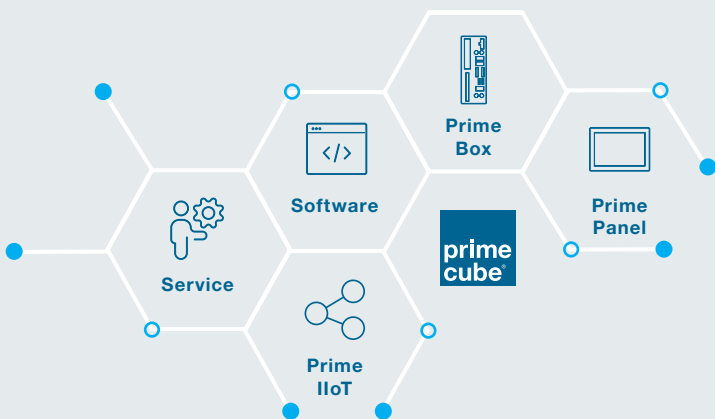
FACT SHEET

### THE INDUSTRIAL BOX PC FOR DEMANDING APPLICATIONS

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



### THE MODULAR SYSTEM OF PRIME CUBE®



#### Modular

Customised modular solutions of industrial computer technology with all advantages of standard products: validated platforms, short development process, optimum price performance.



#### High quality

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



#### Application-oriented & customisable

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) we develop and manufacture with appr. 170 employees customised computer systems: From hardware and software to assemblies and complete systems - innovative force "Made in Germany".



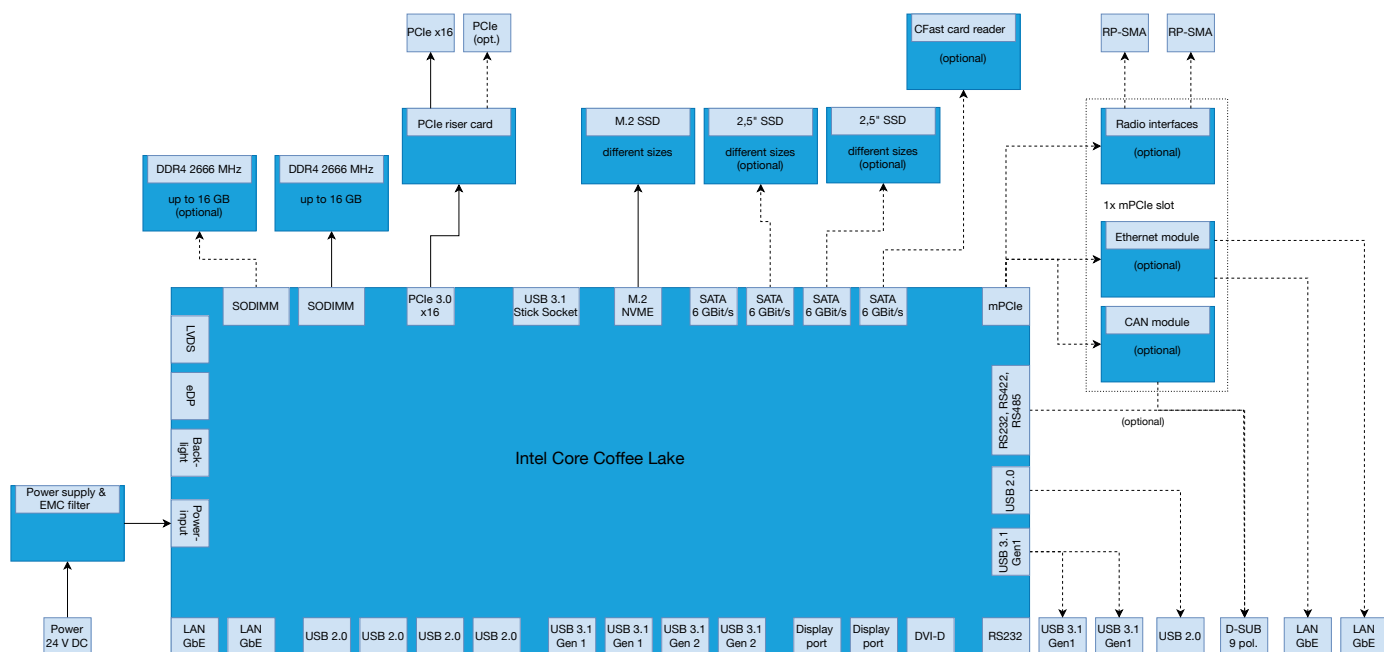
# PRIME BOX PERFORMANCE

## TECHNICAL DATA

VERSION		PRIME BOX PERFORMANCE
<b>Type code</b>		PBI1000ED_112
<b>Dimensions (WxHxD)</b>		132 x 300 x 217,3 mm
<b>Weight</b>		6.25 kg
<b>Housing</b>		Aluminum housing, powder-coated. Stainless steel rear wall. Aluminum heat sink, anodized. Designed for tabletop operation or wall mounting.
<b>Protection class</b>		IP20 acc. DIN EN 60529
<b>Computer</b>		Processor Intel® CELERON™ G4900T
<b>Memory</b>		8th Gen Intel® Core™ i3-8100T; i5-8500T; i7-8700T; 9th Gen Intel® Core™ (optional) Up to 32 GB DDR4, 2400 MHz; 64 GB DDR 4 (optional) 2x SODIMM, dual channel
<b>Mass storage</b> (other memory sizes and different flash technologies available)		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 level 1 (optional).
<b>Extension</b>		1x mPCIe full/half size 1x PCIe Slot x16; second PCIe slot optionally available 2x DSUB 9 pole
<b>Removable storage</b> (optional)		1x CFast holder. CF card optionally available.
<b>Interfaces</b> (standard)		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</b> (optional – other options available)	<b>DSUB 9 pole</b>	1x RS232/422/485
	<b>mPCIe</b>	2x GbE LAN, separate controllers, Intel® I210 1x CAN, dual DSUB 9 pole (Profibus, Profinet and other fieldbuses optionally available) 1x WLAN and BLUETOOTH 1x mobile communication
	<b>PCIe slot bracket</b>	1x USB 2.0 2x USB 3.1 gen. 1
<b>Battery</b>		Buffer battery, ended
<b>Supply voltage</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 -10 °C ... +50 °C from 0.4 m/s air flow
<b>Storage temperature</b>		-20 °C ... +60 °C
<b>Humidity</b>		10% ... 90%, non-condensing
<b>EMC resistance</b>		Industrial area acc. DIN EN 55024 & DIN EN 61000-6-2
<b>EMC emitted interference</b>		Industrial area acc. DIN EN 55032 class A
<b>Shock</b>		15 g: 11 ms and 25 g: 6 ms acc. DIN EN 60068-2-27
<b>Vibration</b>		2 ... 9 Hz: 3.5 mm amplitude, 9 ... 200 Hz: 1 g acc. DIN EN 60068-2-6
<b>Warranty</b>		36 months
<b>Approvals</b>		CE; UL in preparation; 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

# PRIME BOX PERFORMANCE CIRCUIT DIAGRAM



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