

## PRIME BOX PERFORMANCE

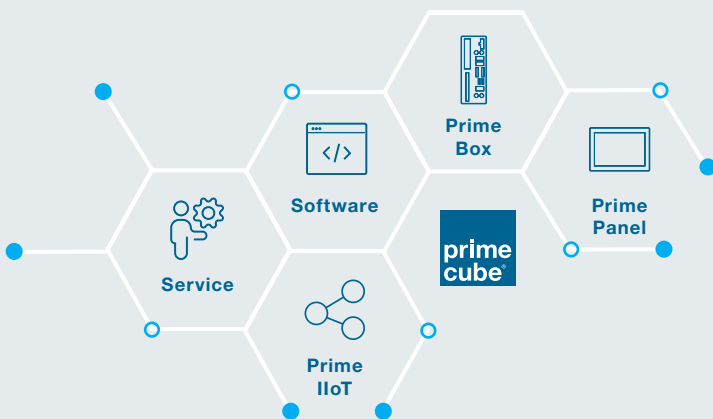
FACT SHEET

### 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

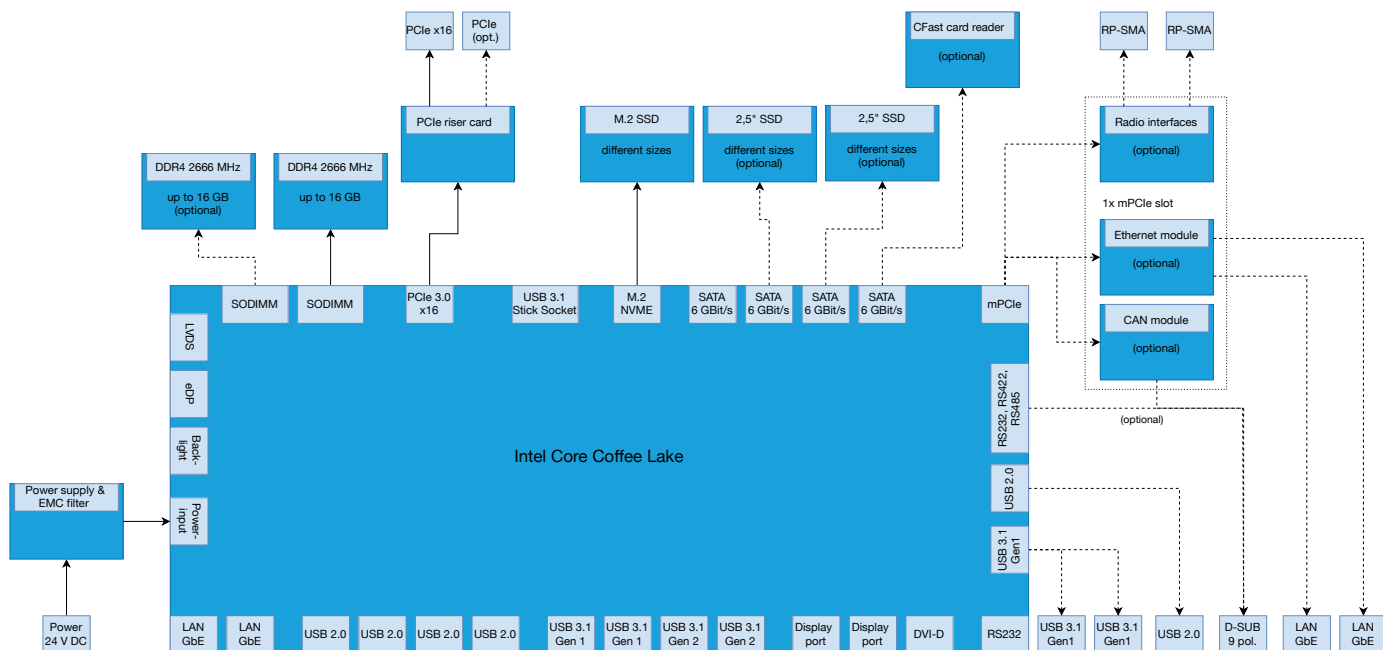
VERSION		PRIME BOX PERFORMANCE
<b>Type code</b>		PBI1000ED_112
<b>Dimensions (WxHxD)</b>		132 x 300 x 217,3 mm
<b>Weight</b>		6.25 kg
<b>Housing</b>		Aluminum housing, powder-coated. Stainless steel rear wall. Aluminum heat sink, anodized. Designed for tabletop operation or wall mounting.
<b>Protection 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

Dimension drawings can be downloaded from our [website](#). 3D models are provided on request by e-mail to [vertrieb@schubert-system-elektronik.de](mailto:vertrieb@schubert-system-elektronik.de).

Version 1.05 / 2021 © Schubert System Elektronik GmbH. All rights and modifications reserved. All data are non-binding and do not ensure any properties. The illustrations can also contain special fittings and accessories. We assume no liability for printing errors. The company names, names and logos used are largely protected by copyright and/or trademarks, even if not explicitly marked as such. All product names used are brand names and/or trademarks of the respective manufacturers.

# PRIME BOX PERFORMANCE CIRCUIT DIAGRAM



Dimension drawings can be downloaded from our [website](#). 3D models are provided on request by e-mail to [vertrieb@schubert-system-elektronik.de](mailto:vertrieb@schubert-system-elektronik.de).

Version 1.05 / 2021 © Schubert System Elektronik GmbH. All rights and modifications reserved. All data are non-binding and do not ensure any properties. The illustrations can also contain special fittings and accessories. We assume no liability for printing errors. The company names, names and logos used are largely protected by copyright and/or trademarks, even if not explicitly marked as such. All product names used are brand names and/or trademarks of the respective manufacturers.