

PRIME BOX PICO

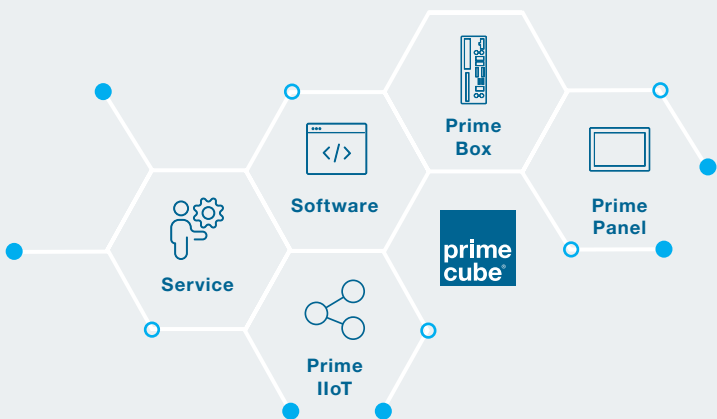
FACT SHEET

ONE OF THE SMALLEST BOX PCS IN AN INDUSTRIAL ENVIRONMENT

- High connectivity with compact design
- Efficient x86-platform
- 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".



DESIGN		PRIME BOX PICO
Model Code		PBI1100ED_044
Dimensions (WxHxD)		55 x 170 x 92.3 mm
Weight		1.15 kg
Housing		Aluminium housing, powder-coated. Steel sheet rear panel, galvanized. Aluminium heat sink, anodized. Designed for wall mounting or mounting to 35 mm top-rail (EN 50022 and EN 50045).
Protection Class		IP20 acc. EN 60529
Processor		Intel® Atom x7-E3950, Quad Core, 1.6 GHz
Working Memory		Up to 8 GB DDR3L, 1600 MHz 1x SODIMM
Mass Storage		1x mSATA 64 GB - 512 GB, flash memory Further memory sizes and flash technologies available.
Extensions		1x mPCIe full size 1x DSUB 9 pol
Removable Storage (optional)		1x SD card holder. Optional incl. SD-card.
Interfaces (Mainboard)		2x GbE LAN, separate controllers, Intel® I210-IT 4x USB 3.0 1x DP 1x HDMI
Interfaces (extendable)	DSUB 9 pol	1x RS232/422/485 (standard configuration)
	mPCIe	1x CAN, 1-fold DSUB 9 pol (Profibus, Profinet and further fieldbusses feasible) 1x WLAN and BLUETOOTH 1x mobile radio
Battery		Buffer battery externally exchangeable
Voltage Supply		24 V DC (12...32 V DC)
Operating System		Windows 10 IoT Enterprise LTSC 2021 LINUX 64 bit: Debian 10 distribution
Ambient Temperature*		-10 °C ... +45 °C with natural convection -10 °C ... +50 °C ** from 0.4 m/s air flow
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-listed for USA & Canada acc. UL 61010-2-201 & CSA C22.2 no. 61010-2-201

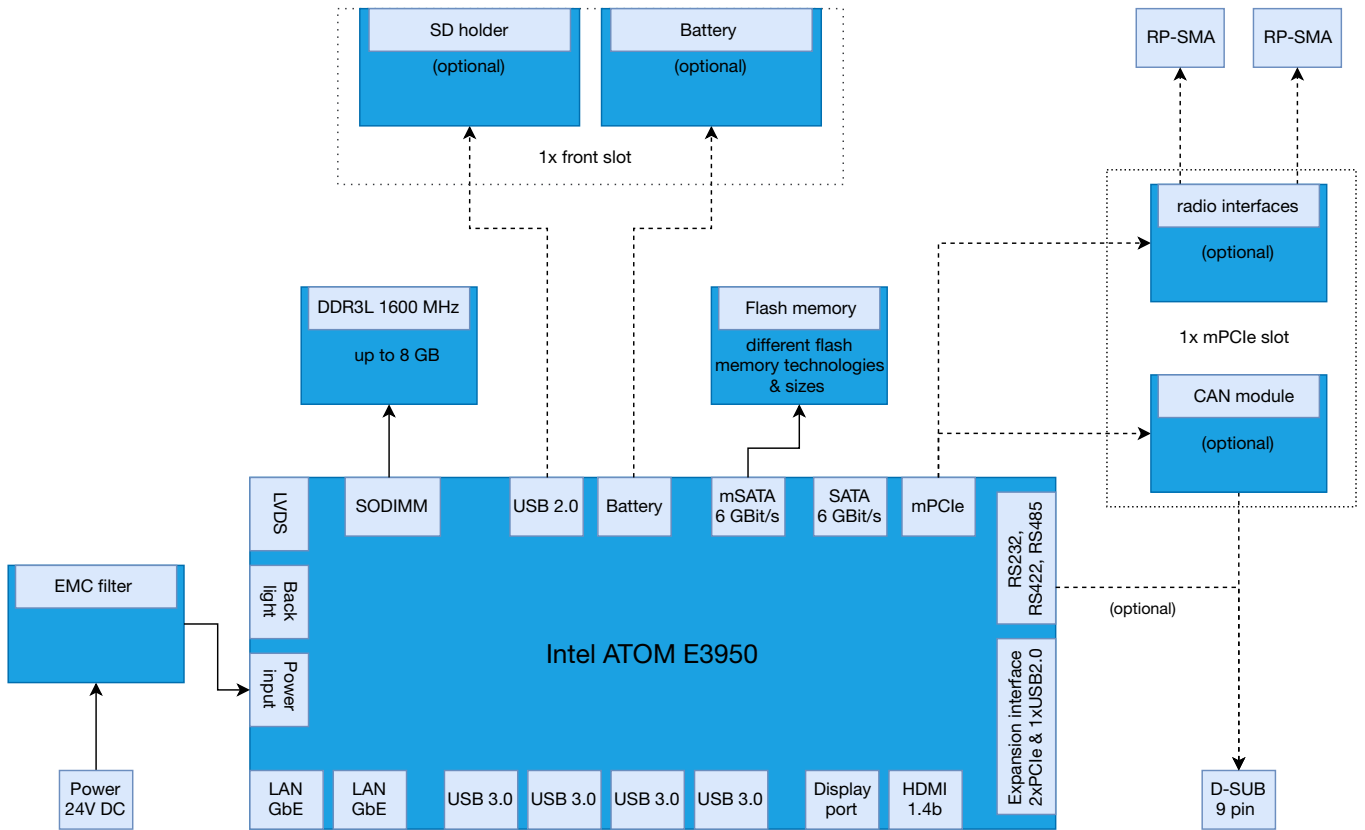
* Functional system test at maximum ambient temperature and the highest possible internal heat load.

** 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 PICO CIRCUIT DIAGRAM



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