

PRIME BOX PICO

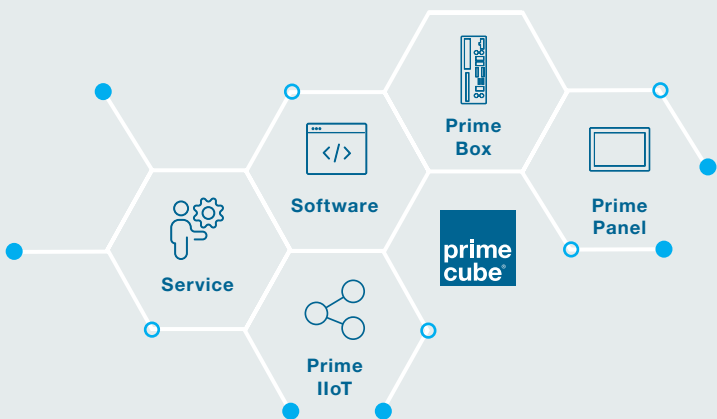
FACT SHEET

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 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.

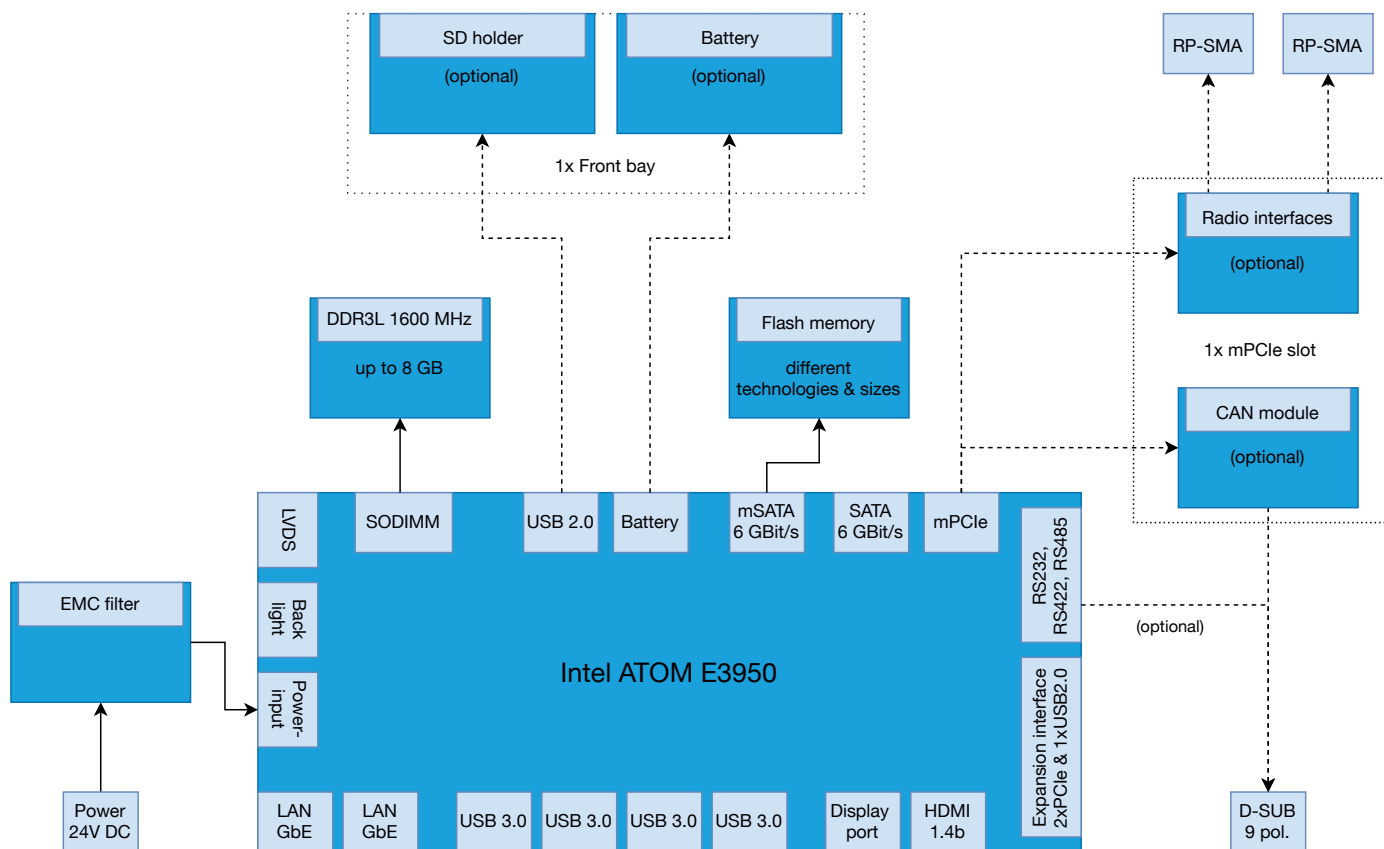
From sensor application to tool monitoring in the machine and from embedded computing systems to a future-oriented IoT gateway concept we represent all product steps with our product brands Prime Cube® and BK Mikro®. At our headquarters in Neuhausen ob Eck (Baden-Württemberg) we develop and manufacture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



VERSION		PRIME BOX PICO
Type code		PBI1100ED_044
Dimensions (WxHxD)		55 x 170 x 92.3 mm
Weight		1.15 kg
Housing		Aluminium housing, powder-coated. Sheet steel rear wall, galvanized. Aluminum heat sink, anodized. Tabletop operation, wall mounting or mountable to 35 top-rail (DIN EN50022 and EN50045).
Protection class		IP20 acc. DIN EN 60529
Computer		Processor Intel® Atom x7-E3950, Quad Core, 1.6 GHz
Memory		Up to 8 GB DDR3L, 1600 MHz 1x SODIMM
Mass storage (other memory sizes and different flash technologies available)		1x mSATA 64 GB - 512 GB, flash memory
Extension		1x mPCIe full size 1x DSUB 9 pole
Removable storage (standard)		1x SD card holder. SD card optionally available.
Interfaces (standard)		2x GbE LAN, separate controllers, Intel® I211-AT 4x USB 3.0 1x DP 1x HDMI
Interfaces (optional – other options available)	DSUB 9 pole	1x RS232/422/485
	mPCIe	1x CAN, single DSUB 9 pole (Profibus, Profinet and other fieldbuses optionally available) 1x WLAN and BLUETOOTH 1x mobile communication
Battery		Buffer battery externally exchangeable
Supply voltage		24 V DC (20.4 ... 28.8 V)
Operating system		Windows 10 IoT Enterprise 2019 LTSC LINUX 64bit: 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 resistance		Industrial area acc. DIN EN 55024 & DIN EN 61000-6-2
EMC emitted interference		Industrial area acc. DIN EN 55032 class A
Shock		15 g: 11 ms and 25 g: 6 ms acc. DIN EN 60068-2-27
Vibration		2 ... 9 Hz: 3.5 mm amplitude, 9 ... 200 Hz: 1 g acc. DIN EN 60068-2-6
Warranty		36 months
Approvals		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 PICO CIRCUIT DIAGRAM



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