

PRIME PANEL PICO INSTALLATION 10.1" / 13.3" / 15.6" MULTITOUCH PANEL PC FOR DEMANDING TASKS

FACT SHEET

- IPC easy to configure in hardware and software
- Flexible and extensive connectivity
- High operational safety by robust system design and IP65



Housing

Passive, fanless cooling.
Modern design, "form follows function".
Optional with logo and color ident.



Glass Front

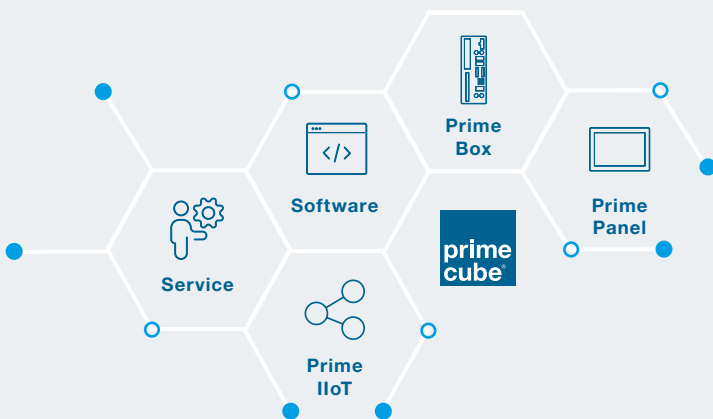
Optimum readability, low reflections.
Scratch-resistant.
Easy to clean.



Touch

High operational safety - even under disturbing influence.
EMC-stable 4-finger operation, glove operation (cat. 1) pre-parameterized.
Specific parameterization such as palm suppression or working gloves inhouse.

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".



PRIME PANEL PICO INSTALLATION 10.1" / 13.3" / 15.6"

TECHNICAL DATA

prime
cube®

DESIGN		PRIME PANEL PICO INSTALLATION		
		10.1"	13.3"	15.6"
Model Code		PPH100ED_101	PPH100ED_133	PPH100ED_156
Dimensions (WxHxD)		275 x 193.6 x 79 mm	354.8 x 226.2 x 79 mm	406.5 x 256 x 79 mm
Weight		2.60 kg	3.02 kg	4.05 kg
Housing		Aluminium front frame, powder-coated. Steel sheet rear panel, galvanized. Aluminium computer core with heat sink, anodized. Hardened and AR-coated front glass. Designed for front installation by means of mounting brackets.		
Mounting Clamps		8 pieces	8 pieces	10 pieces
Protection Class		IP65 acc. EN 60529, front side. IP20 acc. EN 60529, rear side.		
Display	Size	WXGA display, 1280 x 800 pixel, 16:10	FHD display, 1920 x 1080 pixel, 16:9, optional HD resolution	
	Luminance (typ.)	500 cd/m ²	400 cd/m ²	450 cd/m ²
	Contrast Ratio (typ.)	900	800	800
	Viewing Angle (typ.)	85/85/85/85 °	89/89/89/89 °	85/85/85/85 °
	Lifetime Lighting (min.)	50,000 h	50,000 h	50,000 h
Touch		Projected Capacitive Touch (PCT), 4-finger operation, up to 10-finger operation optional. Specific parameterization possible inhouse.		
Processor		Intel® Atom x7-E3950, Quad Core, 1.6 GHz		
Working Memory		Up to 8 GB DDR3L, 1600 MHz		
Mass Storage		1x SODIMM 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 (integrated at front side or external antennae) 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		20 % ... 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 und 25 g: 6 ms gemäß EN 60068-2-27		
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.

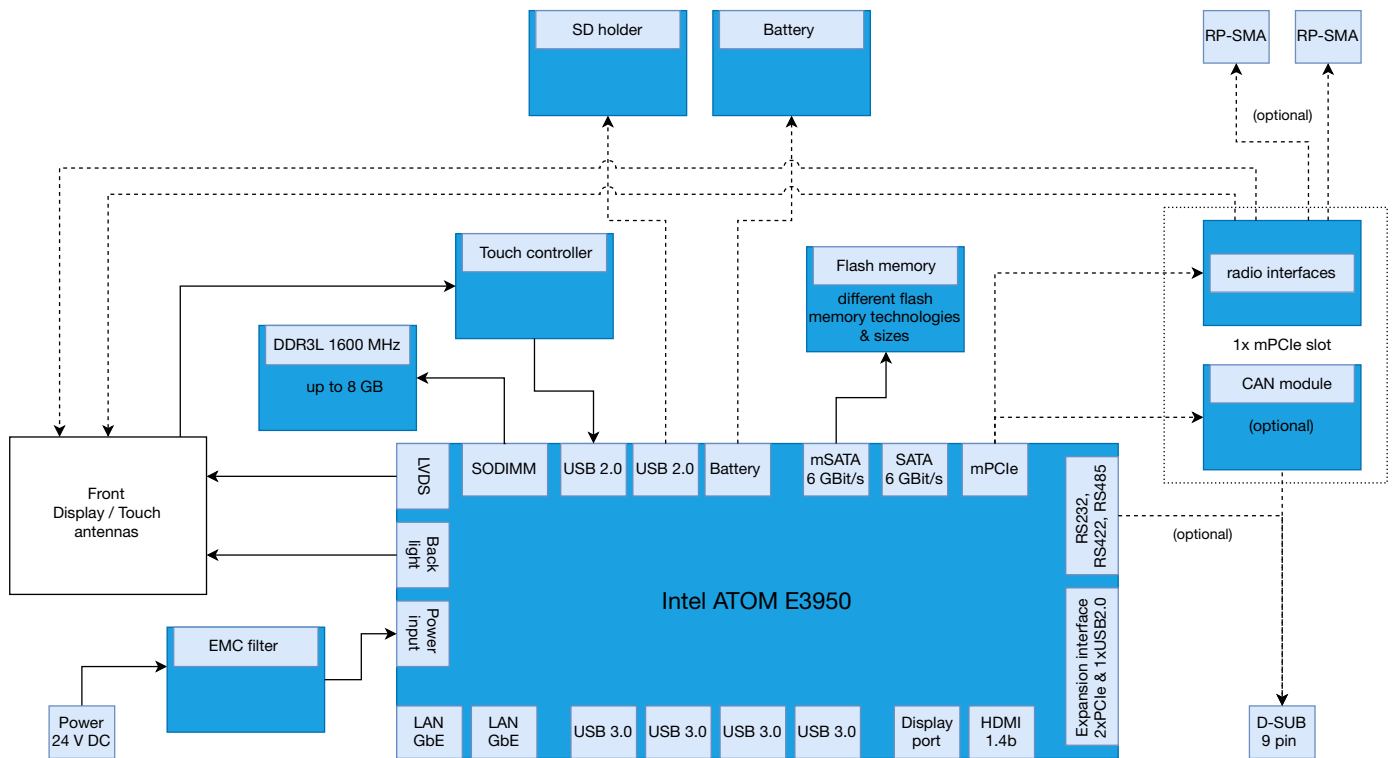
** not evaluated by UL.

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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CIRCUIT DIAGRAM



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