

## PRIME PANEL PERFORMANCE INSTALLATION 15.6" / 18.5" / 21.5" MULTITOUCH PANEL PCS 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

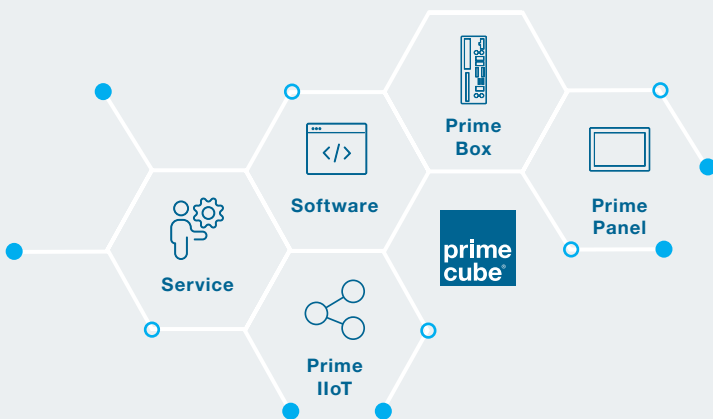
Optimum readability, low reflections.  
Scratch-resistant.  
Easy to clean.



### 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 PERFORMANCE INSTALLATION 15.6" / 18.5" / 21.5"

## TECHNICAL DATA

prime  
cube®

DESIGN		PRIME PANEL PERFORMANCE INSTALLATION		
		15.6"	18.5"	21.5"
<b>Model Code</b>		PPI1000ED_156	PPI1000ED_185	PPI1000ED_215
<b>Dimensions (WxHxD)</b>		406.5 x 256 x 128 mm	471.8 x 292.4 x 128 mm	538.6 x 330.1 x 128 mm
<b>Weight</b>		7.7 kg	9.05 kg	9.8 kg
<b>Housing</b>		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.		
<b>Mounting Clamps</b>		12 pieces	12 pieces	12 pieces
<b>Protection Class</b>		IP65 acc. EN 60529, front side. IP20 acc. EN 60529, rear side.		
<b>Display</b>	<b>Size</b>	FHD display, 1920 x 1080 px, 16:9. Optional HD-resolution for 15.6" and 18.5".		
	<b>Luminance (typ.)</b>	450 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>
	<b>Contrast Ratio (typ.)</b>	800	1000	1000
	<b>Viewing Angle (typ.)</b>	85/85/85/85°	89/89/89/89°	89/89/89/89°
	<b>Lifetime Lighting (min.)</b>	50.000 h	50.000 h	50.000 h
<b>Touch</b>		Projected Capacitive Touch (PCT), 4-finger operation, up to 10-finger operation optional. Specific parameterization possible inhouse.		
<b>Processor</b>		Intel® CELERON™ G4900T 8th Gen Intel® Core™ i3-8100T; i5-8500T; i7-8700T; 9th Gen Intel® Core™ optional.		
<b>Working Memory</b>		Up to 2 x 16 GB DDR4-2666; 2 x 32 GB optional. 2x SODIMM, dual channel.		
<b>Mass Storage</b>		1x M.2 Key-M: 64 GB - 512 GB, flash memory 1x 2.5" SSD: 64 GB - 512 GB, flash memory or 1 TB HDD Further memory sizes and flash technologies available.		
<b>Extensions</b>		1x mPCIe full-/half size 1x PCIe Slot x16 1x DSUB 9 pol		
<b>Removable Storage (optional)</b>		1x CFast holder. Optional incl. CF-card.		
<b>Interfaces (Mainboard)</b>		2x GbE LAN, separate controllers, Intel® I219-LM & I210-IT 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 (extendable)</b>	<b>DSUB 9 pol</b>	1x RS232/422/485 (standard configuration)		
	<b>mPCIe</b>	2x GbE LAN, separate controllers, Intel® I210 1x CAN, 2-fold DSUB 9 pol (Profibus, Profinet and further fieldbusses feasible) 1x WLAN and BLUETOOTH (integrated at front side or external antennae)		
	<b>PCIe-Slot Bracket</b>	1x mobile radio 1x USB 2.0 2x USB 3.1 Gen. 1		
<b>Battery</b>		Buffer battery based		
<b>Voltage Supply</b>		24 V DC (18...26 V DC), galvanically isolated		
<b>Operating System</b>		Windows 10 IoT Enterprise 2019 LTSC LINUX 64 bit: Debian 10 distribution		
<b>Ambient Temperature*</b>		-10 °C ... +45 °C with natural convection (up to +40 °C when using a HDD) -10 °C ... +50 °C ** from 0.4 m/s air flow (up to +45 °C when using a HDD)		
<b>Storage Temperature</b>		-20 °C ... +60 °C		
<b>Humidity</b>		10% ... 90%, non-condensing		
<b>EMC Immunity</b>		Industrial area acc. EN 55024 & EN 61000-6-2		
<b>EMC Emission</b>		Industrial area acc. EN 55032 class A		
<b>Shock</b>		15 g: 11 ms and 25 g: 6 ms acc. DIN EN60068-2-27		
<b>Vibration</b>		2 ... 9 Hz: 3.5 mm amplitude, 9 ... 200 Hz: 1 g acc. EN 60068-2-6		
<b>Warranty</b>		36 months		
<b>Approvals</b>		CE; UL in testing; acc. UL 61010-2-201 & CSA C22.2 no. 61010-2-201		

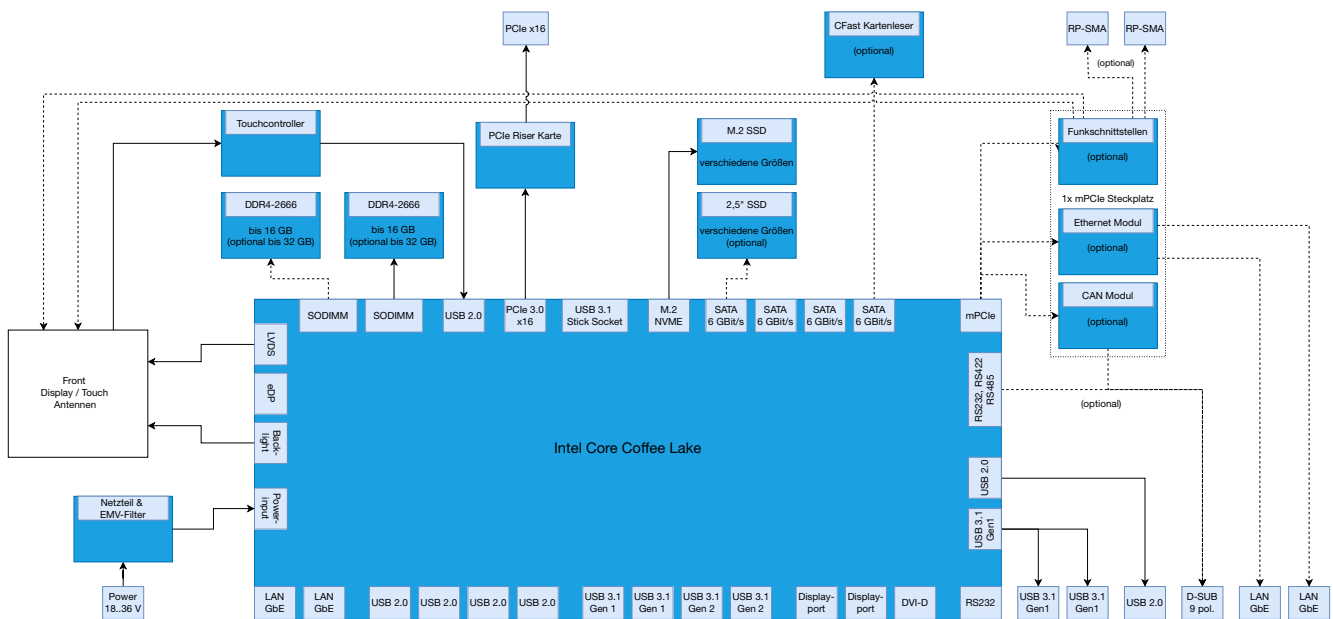
\* Functional system test at maximum ambient temperature and the highest possible internal heat load.

\*\* 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](mailto:vertrieb@schubert-system-elektronik.de).

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# PRIME PANEL PERFORMANCE INSTALLATION 15.6" / 18.5" / 21.5" CIRCUIT DIAGRAM



Please find dimensional drawings as downloads on our [website](#). 3D-models on request via e-mail to [vertrieb@schubert-system-elektronik.de](mailto:vertrieb@schubert-system-elektronik.de).

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