

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

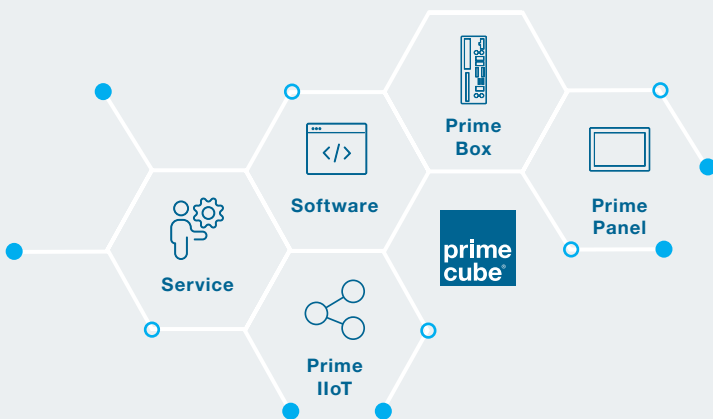
Optimum readability, low reflections.
Scratch-resistant.
Easy to clean.



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®

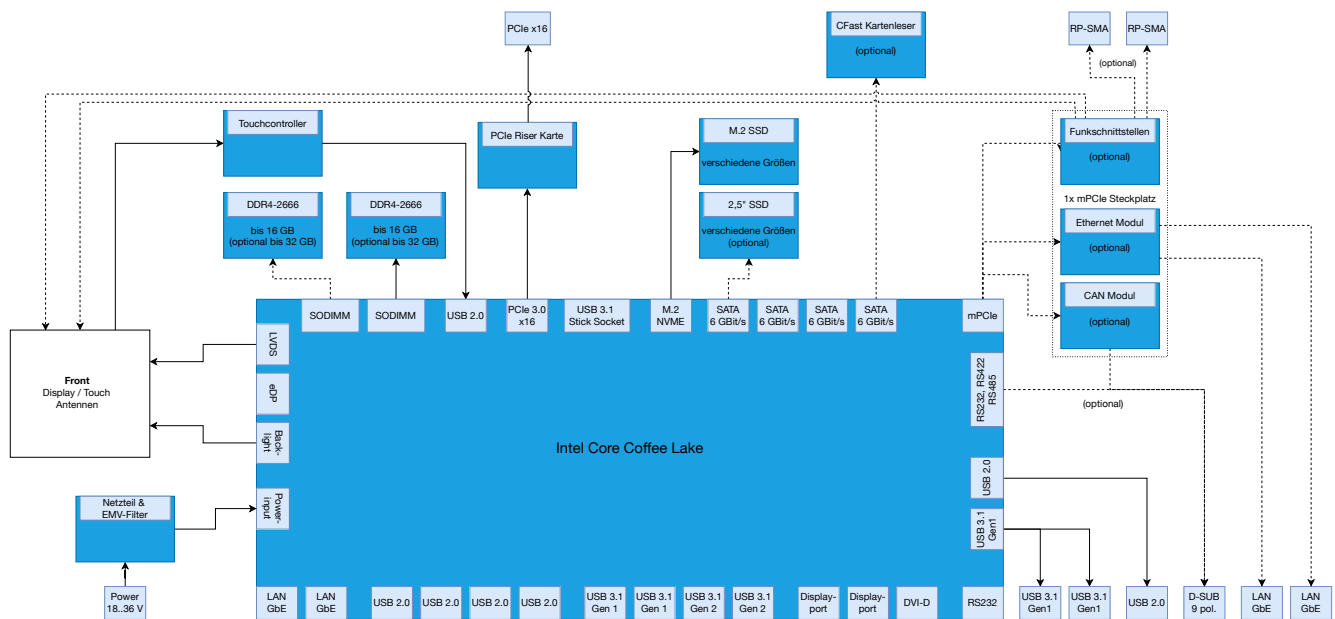
DESIGN		PRIME PANEL PERFORMANCE INSTALLATION		
		15.6"	18.5"	21.5"
Model Code		PPI1000ED_156	PPI1000ED_185	PPI1000ED_215
Dimensions (WxHxD)		406.5 x 256 x 128 mm	471.8 x 292.4 x 128 mm	538.6 x 330.1 x 128 mm
Weight		7.7 kg	9.05 kg	9.8 kg
Housing		Aluminium front frame, powder-coated. Steel sheet rear panel, galvanized. Aluminium computer core with heat sink, anodized. Hardened and AR-coated front glass. Designed for front installation by means of mounting clamps.		
Mounting Clamps		12 pieces	12 pieces	12 pieces
Protection Class		IP65 acc. EN 60529, front side. IP20 acc. EN 60529, rear side.		
Display	Size	FHD display, 1920 x 1080 px, 16:9. Optional HD-resolution for 15.6" and 18.5".		
	Brightness (typ.)	450 nits	350 nits	300 nits
	Contrast Ratio (typ.)	800	800	1000
	Viewing Angle (typ.)	85/85/85/85°	89/89/89/89°	89/89/89/89°
	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.		
Computer		Intel® CELERON™ G4900T 8th Gen Intel® Core™ i3-8100T; i5-8500T; i7-8700T; 9th Gen Intel® Core™ optional.		
Working Memory		Up to 32 GB DDR4-2666; 64 GB optional. 2x SODIMM, dual channel.		
Mass Storage		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.		
Extensions		1x mPCIe full-/half size 1x PCIe Slot x16 1x DSUB 9 pol		
Removable Storage (optional)		1x CFast holder. Optional incl. CF-card.		
Interfaces (standard)		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		
Interfaces (extendable)	DSUB 9 pol	1x RS232/422/485		
	mPCIe	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)		
	PCIE-Slot Bracket	1x mobile radio 1x USB 2.0 2x USB 3.1 Gen. 1		
		Buffer battery based		
Battery		24 V DC (18...26 V DC), galvanically insulated		
Voltage Supply		Windows 10 IoT Enterprise 2019 LTSC		
Operating System		LINUX 64 bit: Debian 10 distribution		
Ambient Temperature*		-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		
Storage Temperature		-20 °C ... +60 °C		
Humidity		10% ... 90%, non-condensing		
EMC Interference Immunity		Industrial area acc. EN 55024 & EN 61000-6-2		
EMC Emitted Interference		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 in testing; acc. UL 61010-2-201 & CSA C22.2 no. 61010-2-201		

* test conditions: 14 W USB-Last, 100% CPU-Last, 100% RAM-Last, 100% SSD-Last

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



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