MODULARITY IS PRIME.

PRIME PANEL PERFORMANCE INSTALLATION 15.6" / 18.5" / 21.5"
MULTITOUCH PANEL PCS FOR DEMANDING TASKS

- 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".
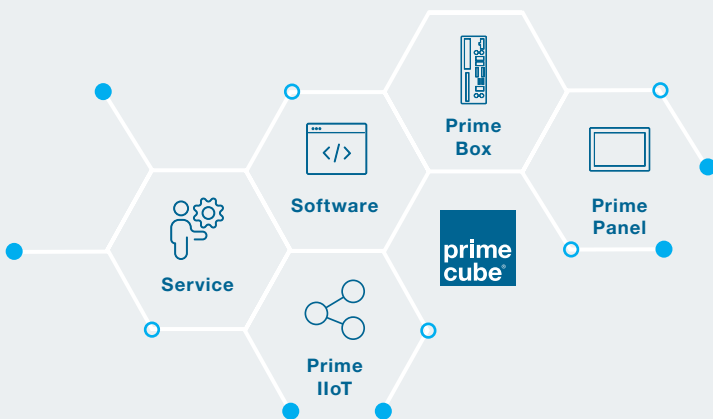Optional with logo and color ident.

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®

Prime Box

Software

prime cube®

Prime Panel

Service

Prime IIoT

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-Wurttemberg) our 170 employess develop and manufacture customized computer systems: from hardware and software to assemblies and complete systems - innovative force "Made in Germany".

SCHUBERT
SYSTEM ELEKTRONIK

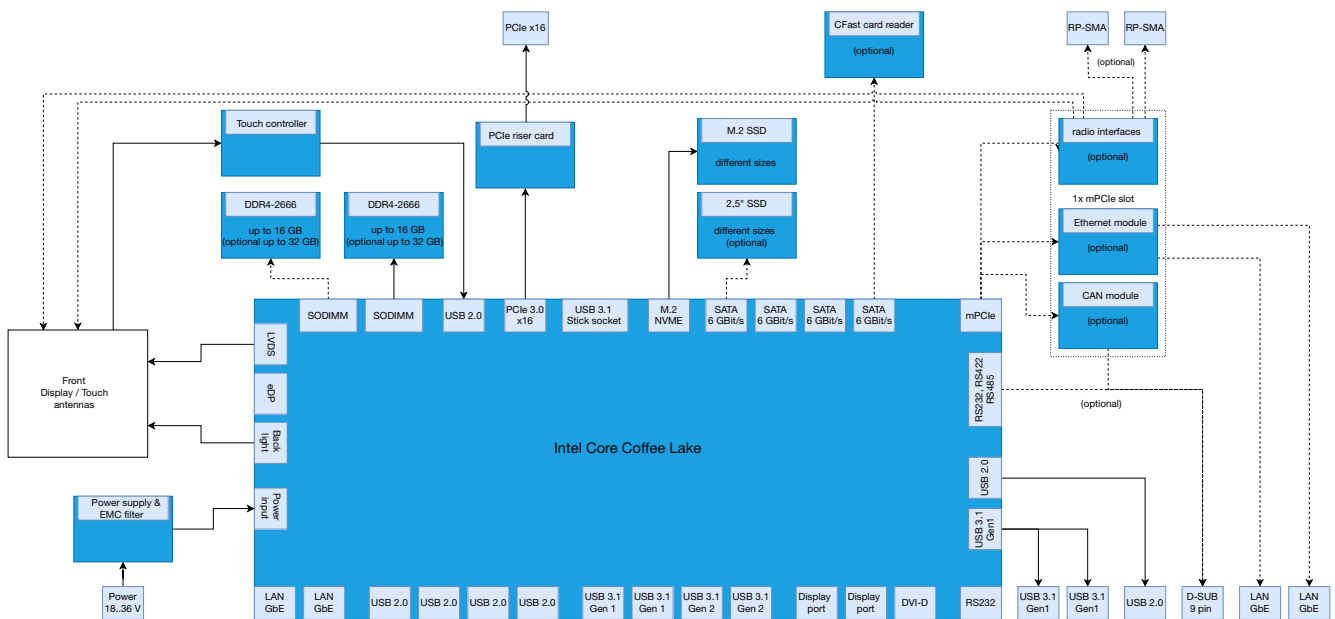| DESIGN		PRIME PANEL PERFORMANCE INSTALLATION		
		15.6"	**18.5"**	**21.5"**
Model Code		PPI1000ED_156	PPI1000ED_185	PPI1000ED_215
Dimensions (WxHxD)		406.5 x 256 x 128 mm	471.8 x 292.4 x 128 mm	538.6 x 330.1 x 128 mm
Weight		7.7 kg	9.05 kg	9.8 kg
Housing		Aluminium front frame, powder-coated. Steel 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 brackets.		
Mounting Clamps		10 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".		
	Luminance (typ.)	450 cd/m²	350 cd/m²	350 cd/m²
	Contrast Ratio (typ.)	800	1000	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.		
Processor		Intel® CELERON™ G4900T		
		8th Gen Intel® Core™ i3-8100T; i5-8500T; i7-8700T; 9th Gen Intel® Core™ optional.		
Working Memory		Up to 2 x 16 GB DDR4-2666; 2 x 32 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 (Mainboard)		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 (standard configuration)		
	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)		
		1x mobile radio		
	PCIE-Slot Bracket	1x USB 2.0		
		2x USB 3.1 Gen. 1		
Battery		Buffer battery based		
Voltage Supply		24 V DC (18...26 V DC), galvanically isolated		
Operating System		Windows 10 IoT Enterprise LTSC 2021		
		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 when using a HDD)		
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 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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