# MODULARITY IS PRIME.

**prime cube®**

## PRIME PANEL PERFORMANCE ATTACHMENT 21.5"
### THE MULTITOUCH PANEL PC 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.
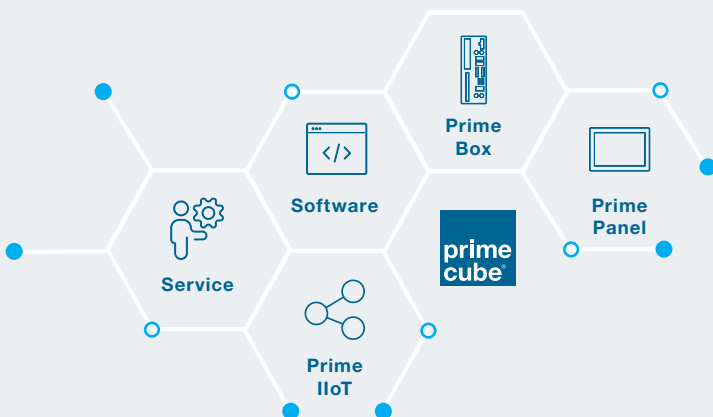Modern design, "form follows function".
Optional with logo and color ident.

**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

**prime cube®**

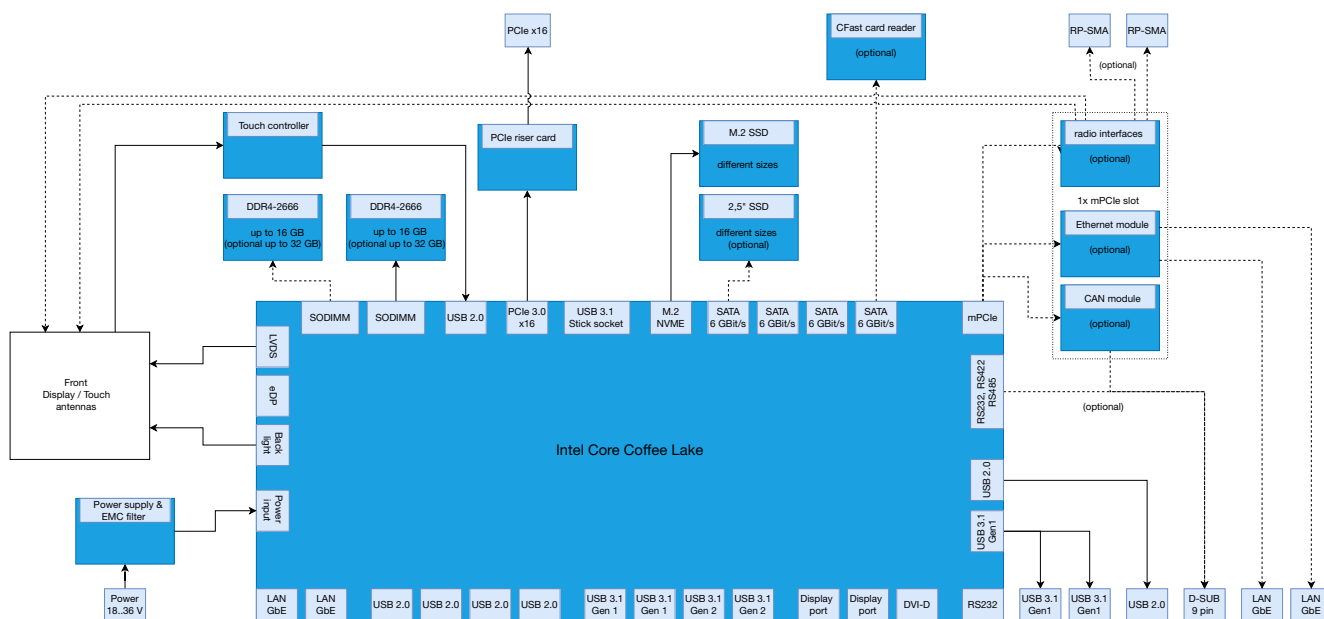| DESIGN | | PRIME PANEL PERFORMANCE ATTACHMENT 21.5" |
|---|---|---|
| Model Code | | PPI1000AD_215 |
| Dimensions (WxHxD) | | 538.6 x 330.1 x 129 mm |
| Weight | | 12.5 kg |
| Housing | | Aluminium front frame, powder-coated. Aluminium rear panel, powder-coated. Aluminium computer core with heat sink, anodized. Hardened and AR-coated front glass. Designed for mounting to a support arm system. |
| Protection Class | | IP65 acc. EN 60529 all around. |
| Display | Size | FHD display, 1920 x 1080 px, 16:9. |
| | Luminance (typ.) | 350 cd/m² |
| | Contrast Ratio (typ.) | 1000 |
| | Viewing Angle (typ.) | 89/89/89/89 ° |
| | Lifetime Lighting (min.) | 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-AT |
| | | 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 |
| | | 1x 2-fold USB 3.1, external |
| 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 ... 36 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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