

CPC1200 – ECO

Panel PC

Part type designation	Part number
CPC1207WM/BE1/ AM7211/4G/E/LX	On request
CPC1210WM/BE1/ AM7211/4G/E/LX	On request
CPC1212WM/BE1/ AM7211/4G/E/LX	On request
CPC1215WM/BE1/ AM7211/4G/E/LX	On request

Features

- Industrial dual-core processor Intel® Atom x7211RE
- Ultra-fast system memory and mass storage
- Integrated interfaces
- Real-time capable
- Integrated safety
  - 2x Ethernet 100/1000 Mbit/s with IEEE 1588
  - 2x USB-A 2.0
- Integrated strain relief (from 12.1") and mounting spring for single-person installation
- Pre-installed system software and software components
  - Linux Embedded (Debian 13)
  - Bachmann Industrial Browser, Web configurator
- Standard operating temperature from 0 °C to +60 °C fanless

The CPC1200 ECO series of control panel PCs combines PLC control, operator interaction, visualization, and functional safety in a single device – ideal for compact control applications and web visualization.

The controller is based on an industrial-grade dual-core Intel® Atom x7211RE processor and the M100 family's real time Linux platform. Programming, configuration, and engineering are seamlessly integrated. The system software includes useful services such as SSH, NTP, and VNC, as well as a web API for secure access to hardware functions. This enables web applications to directly control LEDs and adjust display brightness.

The brilliant displays deliver exceptional brightness, vivid color reproduction, and very wide viewing angles. The 7", 10.1", 12.1", and 15.6" widescreen displays offer high resolutions, with the 15.6" model featuring Full HD. With more than 50,000 operating hours, they provide an impressive lifetime.

The projected capacitive (PCAP) multi-touch interface supports modern gestures such as pinch-to-zoom and swiping, as well as two-handed operation. The high-quality tempered-glass front offers a sleek appearance and is particularly easy to clean. The consistent use of industrial-grade components ensures a long lifetime and maximum availability. Soldered RAM and eMMC storage, combined with the absence of moving parts, ensure maximum robustness against shock and vibration. The temperature range of 0 °C to +60 °C enables use even under demanding environmental conditions.

The integrated mounting spring allows even large displays to be installed easily by a single person. For sizes of 12.1" and larger, integrated strain relief also ensures secure, long-lasting cable retention directly in the device.

The pre-installed browser is optimized for industrial applications. Its integrated on-screen keyboard simplifies data entry while reducing application development effort. Automatic updates are deliberately disabled to ensure that only approved, stable software runs in the field, preventing unplanned downtime.

The system software can be tailored to specific customer requirements and is delivered preconfigured from the factory for efficient commissioning.

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Common properties				
Basic function	Industrial control PC with an integrated touch screen (panel PC) for control, visualization, and operator interaction for machines and plants			
Processor and memory				
Processor	Intel® Atom x7211RE			
Cores	2			
Base clock frequency	1.0 GHz			
Max. turbo frequency	3.2 GHz			
RAM	4 GB LPDDR5			
Mass storage				
Internal storage	16 GB eMMC (MLC) configured as 7.3 GB pSLC			
Retentive data storage	128 kB NVRAM			
Persistent data storage	512 kB (eMMC)			
Display	**CPC1207**	**CPC1210**	**CPC1212**	**CPC1215**
Diagonal	7.0"	10.1"	12.1"	15.6"
Resolution	800 × 480	1280 × 800	1280 × 800	1920 × 1080
Display brightness	500 cd/m²	500 cd/m²	800 cd/m²	350 cd/m²
Contrast	600:1	800:1	1200:1	1000:1
Half brightness min.	50 000 h	50 000 h	30 000 h	50 000 h
Viewing angle (L, R, U, D)	80°/80°/80°/80°	80°/80°/80°/80°	85°/85°/85°/85°	89°/89°/89°/89°
Touch	Projected capacitive multi-touch			
Interfaces				
Ethernet	2x 100/1000 Mbit/s			
USB	2x USB-A 2.0			
Synchronization/clocks				
Real time clock	Yes			
Synchronization	SNTP / PTP / NTP			
Diagnostics				
Electronic type plate	Yes (application interface and in the engineering tool)			
Machine readable type plate	Yes (QR code with type and part information and internet link)			
Environmental conditions sensor	Integrated temperature sensor			
Operational indications	LED "MOD" (red/green) module status LED "COM" (red/green) communication status LED "APP" (red/green) application-controlled indication LED "SAF" (red/green) safety status indication			
Energy supply				
Supply voltage, nominal	24 V DC			
Supply voltage, range	18 V to 32 V			
Power consumption, continuous, max.	PPC1215: 23.5 W			
Input current, continuous, max.	1.3 A @ 18 V DC, T_a = 25 °C			
Maximum residual ripple	2.4 V_{ss} at 50 Hz, 60 Hz, 100 Hz and 120 Hz			
Permitted voltage interruptions	< 1 ms			
Reverse polarity protection	Yes, continuously (up to -32 V)			
Power dissipation, typ./max.	PPC1215: 19.6 W / 21.6 W			
Product safety				
Degree of protection acc. IEC 60529	IP65 front / IP20 rear			

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Environmental conditions	
Temperature range, operating	0 °C to +60 °C
Temperature range, transport and storage	-20 °C to +70 °C
Installation altitude, max.	4500 m
Relative humidity, operation	0 % to 100 % noncondensing
Vibration	1 g (8.4 Hz to 150 Hz) 3.5 mm amplitude (5 Hz to 8.4 Hz) Test duration: 7.5 h
Shock	15 g max. (test scope 18 shocks)
Approvals/certificates	
Product safety	CE, UKCA: in preparation cULus (NRAQ, NRAQ7): in preparation
Hazard area operation	ATEX: Ex II 3G Ex ec IIC Gc: in preparation
Hazardous substances and waste treatment	RoHS, RoHS China, REACH, WEEE
Quality management	ISO 9001 for development and production
Software	
Operating system	Linux Embedded (Debian)
Software components	Bachmann Industrial Browser Web Configurator Device interface (REST API)
Mounting/installation	
Mounting type	Built-in installation Support arm mounting via VESA 75
Ground connection for protection class I	Yes

Dimensions	CPC1207	CPC1210	CPC1212	CPC1215
Outer contour W × H [mm]	201.5 × 142	273 × 194	322 × 224	409 × 261
Cutout W × H [mm]	187 × 129	259 × 180	308 × 210	395 × 247
Depth [mm]	54	74	74	74
Mass unpacked [kg]	1.02	1.65	1.97	3.32

Order data

Part type designation	Part number	Description
CPC1207WM/BE1/ AM7211/4G/E/LX	On request	Control Panel PC 7.0" (800 × 480) Projected capacitive (PCAP) multi-touch; Intel® Atom x7211RE; 4 GB LPDDR5 RAM; 2x Eth 100/1000; 2x USB 2.0; 16 GB eMMC onboard; OS: Linux embedded; operating temp. 0 °C to +60 °C
CPC1210WM/BE1/ AM7211/4G/E/LX	On request	Control Panel PC 10.1" (1280 × 800) Projected capacitive (PCAP) multi-touch; Intel® Atom x7211RE; 4 GB LPDDR5 RAM; 2x Eth 100/1000; 2x USB 2.0; 16 GB eMMC onboard; OS: Linux embedded; operating temp. 0 °C to +60 °C
CPC1212WM/BE1/ AM7211/4G/E/LX	On request	Control Panel PC 12.1" (1280 × 800) Projected capacitive (PCAP) multi-touch; Intel® Atom x7211RE; 4 GB LPDDR5 RAM; 2x Eth 100/1000; 2x USB 2.0; 16 GB eMMC onboard; OS: Linux embedded; operating temp. 0 °C to +60 °C
CPC1215WM/BE1/ AM7211/4G/E/LX	On request	Control Panel PC 15.6" (1920 × 1080) Projected capacitive (PCAP) multi-touch; Intel® Atom x7211RE; 4 GB LPDDR5 RAM; 2x Eth 100/1000; 2x USB 2.0; 16 GB eMMC onboard; OS: Linux embedded; operating temp. 0 °C to +60 °C

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