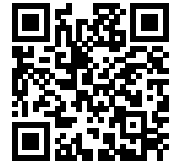# CPX27xx-0010 | Fanless multi-touch built-in Panel PC

**Product status:** Regular delivery

## CPX27xx for application in hazardous areas, Zone 2/22

With the CPX Panel PC series, the proven multi-touch technology of Beckhoff Panel PCs is available in particularly robust versions, complying with the requirements for use in hazardous areas classified Zone 2/22. The high level of functionality and excellent build quality ensure the reliability of CPX panels even under harsh environmental conditions. The capacitive touch technology provides the typical convenient operation of all Beckhoff multi-touch panels. The aesthetically pleasing appearance of the panel and the look and feel of the aluminum housing are maintained, making them visual highlights in explosion-proof environments.

## Scalable performance

The CPX27xx Panel PCs features an Intel Atom® processor with up to four cores and are available with three different displays in the sizes 15-, 19- and 21.5-inches.

## Highest data availability and data security

Due to the fanless structure and the use of a CFast card, the CPX27xx does not contain any rotating components. The CPX27xx comes with a 24 V power supply unit.

## Accessibility of the components

Data media and the lithium battery of the system clock are accessible from the rear.

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## Central EtherCAT control

Due to its two independent Ethernet interfaces the CPX27xx is ideally suited as a compact central processing unit for an EtherCAT control system.

## Flexible expansion options

Optionally, a third Ethernet interface and a 2½-inch hard disk/SSD can be integrated instead of the CFast card.

## Advantage at the very core: the Beckhoff Industrial PCs

Beckhoff is a pioneer in PC-based automation technology and has been developing and producing its own PC hardware since 1986. The technology know-how that has grown over the past decades is incorporated today into all Beckhoff Industrial PCs. Their principle feature is the use of state-of-the-art components and processors of the highest performance class. Combined with a high in-house production depth, including proprietary motherboard production, long-term component availability, extremely flexible configuration and customer-specific adaptations, Beckhoff presents itself today as one of the world's leading Industrial PC manufacturers.

# Product information

## Technical data

| Technical data | CPX27xx-0010 | Options |
|---|---|---|
| Device type | Fanless multi-touch built-in Panel PC | |
| Housing | aluminum housing with glass front for application in hazardous areas of Zone 2/22 | |
| Slots for hard disk/flash | 1 slot for CFast | 1 slot for 2½-inch hard disk/SSD |
| Installation | pull-out clamping levers for fast installation without loose parts solid clamping frame for even pressure distribution on the seal | |
| Protection rating | front side IP65, rear side IP20 | |
| Operating temperature | 0...55 °C | |
| Display size/resolution | 15" 1024 x 768, 19" 1280 x 1024 or 21.5" 1920 x 1080 | |
| Touch screen | multi-finger touch screen | |
| Processor | Intel Atom® E3815, 1.46 GHz, 1 core (TC2, TC3: 40) | up to Intel Atom® E3845 1.91 GHz, 4 cores (TC2, TC3: 50) |
| Motherboard | 3½-inch motherboard for Intel Atom® E38xx | |
| Memory | 2 GB DDR3L RAM | up to 8 GB DDR3L RAM |
| Ethernet | 2 x 100/1000BASE-T on-board | 1 additional 100/1000BASE-T |
| Hard disks/flash | 20 GB CFast | up to 160 GB CFast |
| Interfaces | 4 x USB 2.0, 1 x DVI | |
| Power supply | 24 V DC | |
| Operating system | Microsoft Windows Embedded Compact 7, English, supports dual-finger touch screen operation | Windows 7, Windows Embedded Standard 7, Windows 10 IoT Enterprise |

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| Approvals/markings | CE, UL, ATEX, IECEx, cFMus |
|---|---|
| Ex marking | ATEX:<br>II 3G Ex ec IIC T4 Gc<br>II 3D Ex tc IIIC T135 °C Dc<br>IECEx:<br>Ex ec IIC T4 Gc<br>Ex tc IIIC T135 °C Dc<br>cFMus:<br>Class I, II, III, Division 2, Groups A, B, C, D, F and G<br>Class I, Zone 2, AEx ec IIC T4 Gc<br>Zone 22, AEx tc IIIB T135°C Dc |

## Ordering information

| CPX27xx-0010 | Fanless multi-touch built-in Panel PC |
|---|---|
| CPX2715-0010 | 15-inch display 1024 x 768, multi-finger touch screen |
| CPX2719-0010 | 19-inch display 1280 x 1024, multi-finger touch screen |
| CPX2721-0010 | 21.5-inch display 1920 x 1080, multi-finger touch screen |

## Options

| Options | CPX27xx-0010 |
|---|---|
| C9900-C572 | processor Intel Atom® E3827, 1.75 GHz, 2 cores (TC2, TC3: 40), instead of Intel Atom® E3815, 1.46 GHz (TC2, TC3: 40).<br>With Windows Embedded Compact 7 only one core is supported. Multicore support is available with Windows Embedded Standard 7, Windows 7 Professional, Windows 7 Ultimate and Windows 10 IoT Enterprise. |
| C9900-C573 | processor Intel Atom® E3845, 1.91 GHz, 4 cores (TC2, TC3: 50), instead of Intel Atom® E3815, 1.46 GHz (TC2, TC3: 40).<br>With Windows Embedded Compact 7 only one core is supported. Multicore support is available with Windows Embedded Standard 7, Windows 7 Professional, Windows 7 Ultimate and Windows 10 IoT Enterprise. |
| C9900-R257 | memory extension to 4 GB DDR3L RAM, instead of 2 GB, requires a 64 bit operating system or only 3 GB are addressable |
| C9900-R258 | memory extension to 8 GB DDR3L RAM, instead of 2 GB, requires a 64 bit operating system |
| C9900-B415 | third on-board Ethernet adapter on the 3½-inch motherboard for Intel Atom® or Intel® Celeron® ULV 827E 1.4 GHz, wired out with a 100/1000BASE-T connector inside the connector bracket at the connection section |
| C9900-H586 | 40 GB CFast card, 3D flash, extended temperature range, instead of 20 GB CFast card |
| C9900-H590 | 80 GB CFast card, 3D flash, extended temperature range, instead of 20 GB CFast card |
| C9900-H627 | 160 GB CFast card, 3D flash, extended temperature range, instead of 20 GB CFast card |
| C9900-D198 | 1 slot for one 2½ inch hard disk or SSD, instead of 1 slot for one CFast card |
| C9900-H200 | hard disk, 2½-inch, 320 GB, instead of 20 GB CFast card, requires Windows Embedded Standard 7, Windows 7 Professional, Windows 7 Ultimate or Windows 10 IoT Enterprise, PC operating temperature 0...45 °C |

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| | |
|---|---|
| **C9900-H752** | solid-state disk SSD, 3D flash, 2½-inch, 240 GB, instead of 20 GB CFast card, requires Windows Embedded Standard 7, Windows 7 Professional, Windows 7 Ultimate or Windows 10 IoT Enterprise |
| **C9900-H748** | solid-state disk SSD, 3D flash, 2½-inch, 480 GB, instead of 20 GB CFast card, requires Windows Embedded Standard 7, Windows 7 Professional, Windows 7 Ultimate or Windows 10 IoT Enterprise |
| **C9900-H762** | solid-state disk SSD, 3D flash, 2½-inch, 960 GB, instead of 20 GB CFast card, requires Windows Embedded Standard 7, Windows 7 Professional, Windows 7 Ultimate or Windows 10 IoT Enterprise |
| **C9900-S706** | TwinCAT 2 PLC runtime for Windows Embedded Compact 7 |
| **C9900-S707** | TwinCAT 2 NC PTP runtime for Windows Embedded Compact 7 |
| **C9900-S708** | TwinCAT 2 NC I runtime for Windows Embedded Compact 7 |

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