



CP6700-0001-0050 | 10.1-inch Economy Panel PC



i Product status: Regular delivery

The CP6700 and CP6706 built-in Panel PCs are designed for installation in the front of a control cabinet or control housing and, with their highly integrated 3½-inch motherboard, they represent a powerful platform for use in machine construction and plant engineering, for example with the TwinCAT automation software running on Windows 10 IoT Enterprise. They are available with two different touch screen displays with a 7 or 10.1-inch screen size.

Scalable performance

Both sizes are equipped with Intel Atom® processors with up to four cores and with a screen size of 7 or 10.1-inch.

Highest data availability and data security

Due to the fanless design and the use of a CFast card, the CP6700 and CP6706 Panel PCs contain no rotating components. A 24 V power supply unit is included with both variants, optionally also with a capacitive uninterruptible power supply (1-second UPS).

Flexible expansion options

The optional C9900-G07x push-button extensions supplement the built-in Panel PCs by an emergency stop button and three push-button keys with signal lamps. In addition, a third Ethernet interface can be integrated.

Accessibility of the components

The CFast card and the lithium battery for the system clock are accessible from the rear side in the connector bracket.

Central EtherCAT control

Due to the two independent Ethernet interfaces, the CP6700 and CP6706 Panel PCs are ideally suited for use as the compact central unit of an EtherCAT controller.

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	CP6700-0001-0050	Options
Device type	Economy built-in Panel PC	
Housing	aluminum front with sheet-steel rear cover	
Slots for hard disk/flash	1 slot for CFast	
Installation	pull-out clamping levers for fast installation without loose parts	
Protection rating	front side IP54, rear side IP20	
Operating temperature	0...55 °C	
Display size/resolution	10.1" 1024 x 600	
Touch screen	single-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 ex factory
Graphic adapter	integrated in the processor	
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	1-second UPS
Operating system	Windows Embedded Compact 7, English	Windows 7, Windows Embedded Standard 7, Windows 10 IoT Enterprise

Options

Options	10.1-inch economy Panel PC
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). 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). 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-U214	internal, capacitive 1-second UPS to ensure secure backup of persistent application data on the flash card, requires TwinCAT and Windows Embedded Compact 7, Windows Embedded Standard 7 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
C9900-G072	Push-button extension for CP6x00 with landscape 10.1-inch display <ul style="list-style-type: none"> – push-button extension on the bottom side – 3 push-button keys with signal lamp, type RAFI RAFIX 22FS+, round, 30 mm – 1 emergency stop key, type RAFI RAFIX 22FS+ – Labels for push-button caps for individual marking of each push-button can be ordered as an option. – The emergency stop key is wired with two normally-closed contacts, the red push-button with one normally-closed contact and the remaining push-buttons each with one normally-open contact to a terminal row. – Additionally, all push-buttons are transmitted with a normally-open contact via USB. – The LEDs of the push-buttons are controlled via USB only.
C9900-G073	Push-button extension for CP6x00 with landscape 10.1-inch display <ul style="list-style-type: none"> – push-button extension on the bottom side – 3 push-button keys with signal lamp, type RAFI RAFIX 22FS+, round, 30 mm – 1 emergency stop key, type RAFI RAFIX 22FS+ – Labels for push-button caps for individual marking of each push-button can be ordered as an option. – The emergency stop key and the red push-button are wired each with two normally-closed contacts to a terminal row. The remaining push-buttons are wired each with two normally-open contacts to a terminal row. – The LEDs of the push-buttons are wired to a terminal row.