

CP69xx-xxxx-0000 | Economy built-in Control Panel with DVI/USB Extended interface



i **Product status:** Service phase

Balance between latest PC technology and long-term availability of control components

The built-in Control Panels of the type CP69xx are available with different screen sizes. Together with the software employed, they act as the centerpiece of a variety of automation tasks, such as the control of machines, processes and logistic systems, the networking of plant parts, the data acquisition or image processing.

Single-touch technology with guaranteed long-term availability

Even if industrial applications without modern multi-touch operating scenarios are unthinkable today in the course of general digitization, there still remains a large market for single-touch applications. These applications are frequently realized with the help of resistive touch technology. Beckhoff has been using this technology successfully in a large number of single-touch Control Panels for over 20 years.

The CP6906/CP6900 device series are used in particular for price-sensitive applications. A comprehensive range of built-in Control Panels in a wide variety of versions is available to Beckhoff customers:

- diagonals from 7 to 19-inch
- 4:3/5:4 or widescreen format
- special PLC buttons integrated in the front laminate, F-keys up to a complete keyboard
- various connection techniques: DVI/USB for distances up to 5 meters between PC and Control Panel; DVI/USB-Extended for distances up to 50 meters
- standard version or customized

Single-touch technology

To meet the high demands with regard to mechanical stability, the harsh environmental conditions in industry, precise operation and an elegant design, Beckhoff uses only selected single-touch screens with long-term availability for its CP69xx Control Panel series. This guarantees the user a high degree of investment protection: even today, he can still use classic 4:3 formats when retrofitting his machine or for new installations. All necessary controller boards are developed by Beckhoff and manufactured in-house. This results in a very robust overall system, which enables reliable operation even in harsh machine environments.

Sturdy housing technology in a modern and high-class design

As a pioneer in PC-based automation, Beckhoff places the highest demands on the quality of its products and on their contemporary design. In order to harmonize the two, Beckhoff has been using solid aluminum as the raw material for the housings of its Control Panels since the 1990s. Aluminum offers very good mechanical, electrical and thermal properties. The simplicity of its processing also allows the manufacture of small series and enables customer-specific adaptations. Anodization produces a high-quality and durable surface. In addition to aluminum, stainless steel is also used as a basic material for some industries.

Perfectly matched PC hardware

Irrespective of the application as a display device (HMI) or as a complete Control Panel PC, Beckhoff relies on its own expertise, with motherboards developed and manufactured in-house. In this way, the user benefits from flexible, high-performance hardware platforms with guaranteed long-term availability. In addition, customer-specific adaptations are possible for all versions and diagonals.

Connection technology

With DVI/USB-Extended, economy Control Panels can be operated at distances of up to 50 meters from the PC. Apart from a graphics card or a motherboard with DVI output and the USB port available with every motherboard no additional plug-in card is required in the PC.

The CP69xx Built-in Control Panels are connected via standard USB and DVI plug connectors and have an industrial pin contact strip for the 24 V power supply. A 2-port USB socket on the rear panel enables the connection of keyboard, mouse, USB stick or CD/DVD drive. USB-Extended transmits data at 12 Mbit/s according to USB 1.1. With the DVI/USB-Extended technology, the distance between Control Panel and Industrial PC can be up to 50 m. The DVI graphic signal is transmitted directly from the PC by a DVI-E cable.

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	CP69xx-xxxx-0000	Options
Device type	Economy built-in Control Panel with DVI/USB Extended interface	
Housing	aluminum front with sheet-steel rear cover	stainless steel housing at 12", 15" and 19" display without front keyboard
Display size/resolution	5.7" 640 x 480, 6.5" 640 x 480, 12" 800 x 600, 15" 1024 x 768 or 19" 1280 x 1024	
Touch screen	single-finger touch screen or touch pad	
Front keyboard	alphanumerical or numerical PC keyboard in US layout or only function keys, each variant with 10 PLC special keys and LEDs or front laminate without keys, only display	
Protection rating	front side IP65, rear side IP20	
Connection technology	DVI-E and USB-E enables to connect the Control Panel at a distance of up to 50 m to the PC. The DVI-E input is compatible to the standard DVI output of a PC. USB-E transmits USB 1.1 with 12 Mbit/s.	
Interfaces	RJ45 for USB-E, USB 2.0 input for the direct connection to the standard USB output of a PCs at a distance up to 5 m, DVI input, 2 x USB 2.0	
Operating temperature	0...55 °C	
Installation	pull-out clamping levers for fast installation without loose parts	
Power supply	24 V DC	

Ordering information

CP69xx-xxxx-0000	Economy built-in Control Panel CP69xx-xxxx-0000 with DVI/USB Extended interface
CP6907-0000-0000	5.7-inch display 640 x 480, without keys
CP6907-0001-0000	5.7-inch display 640 x 480, without keys, touch screen
CP6909-0000-0000	6.5-inch display 640 x 480, without keys
CP6909-0001-0000	6.5-inch display 640 x 480, without keys, touch screen
CP6919-0000-0000	6.5-inch display 640 x 480, function keys
CP6919-0001-0000	6.5-inch display 640 x 480, function keys, touch screen
CP6929-0000-0000	6.5-inch display 640 x 480, numeric keyboard
CP6929-0001-0000	6.5-inch display 640 x 480, numeric keyboard, touch screen
CP6901-0000-0000	12-inch display 800 x 600, without keys
CP6901-0001-0000	12-inch display 800 x 600, without keys, touch screen
CP6901-0020-0000	12-inch display 800 x 600, without keys, USB A socket in the front
CP6901-0021-0000	12-inch display 800 x 600, without keys, USB A socket in the front, touch screen
CP6911-0000-0000	12-inch display 800 x 600, function keys
CP6911-0001-0000	12-inch display 800 x 600, function keys, touch screen
CP6921-0000-0000	12-inch display 800 x 600, numeric keyboard
CP6921-0001-0000	12-inch display 800 x 600, numeric keyboard, touch screen

CP6921-0002-0000	12-inch display 800 x 600, numeric keyboard, touch pad
CP6931-0000-0000	12-inch display 800 x 600, alphanumeric keyboard
CP6931-0001-0000	12-inch display 800 x 600, alphanumeric keyboard, touch screen
CP6931-0002-0000	12-inch display 800 x 600, alphanumeric keyboard, touch pad
CP6902-0000-0000	15-inch display 1024 x 768, without keys
CP6902-0001-0000	15-inch display 1024 x 768, without keys, touch screen
CP6902-0020-0000	15-inch display 1024 x 768, without keys, USB A socket in the front
CP6902-0021-0000	15-inch display 1024 x 768, without keys, USB A socket in the front, touch screen
CP6912-0000-0000	15-inch display 1024 x 768, function keys
CP6912-0001-0000	15-inch display 1024 x 768, function keys, touch screen
CP6922-0000-0000	15-inch display 1024 x 768, numeric keyboard
CP6922-0001-0000	15-inch display 1024 x 768, numeric keyboard, touch screen
CP6922-0002-0000	15-inch display 1024 x 768, numeric keyboard, touch pad
CP6932-0000-0000	15-inch display 1024 x 768, alphanumeric keyboard
CP6932-0001-0000	15-inch display 1024 x 768, alphanumeric keyboard, touch screen
CP6932-0002-0000	15-inch display 1024 x 768, alphanumeric keyboard, touch pad
CP6942-0000-0000	15-inch display 1024 x 768, alphanumeric keyboard, PLC keys on the sides
CP6942-0001-0000	15-inch display 1024 x 768, alphanumeric keyboard, PLC keys on the sides, touch screen
CP6903-0000-0000	19-inch display 1280 x 1024, without keys
CP6903-0001-0000	19-inch display 1280 x 1024, without keys, touch screen
CP6903-0020-0000	19-inch display 1280 x 1024, without keys, USB A socket in the front
CP6903-0021-0000	19-inch display 1280 x 1024, without keys, USB A socket in the front, touch screen
CP6913-0000-0000	19-inch display 1280 x 1024, function keys
CP6913-0001-0000	19-inch display 1280 x 1024, function keys, touch screen
CP6923-0000-0000	19-inch display 1280 x 1024, numeric keyboard
CP6923-0001-0000	19-inch display 1280 x 1024, numeric keyboard, touch screen
CP6923-0002-0000	19-inch display 1280 x 1024, numeric keyboard, touch pad
CP6933-0000-0000	19-inch display 1280 x 1024, alphanumeric keyboard
CP6933-0001-0000	19-inch display 1280 x 1024, alphanumeric keyboard, touch screen
CP6933-0002-0000	19-inch display 1280 x 1024, alphanumeric keyboard, touch pad

Options

Options	Economy built-in Control Panel CP69xx-xxxx-0000 with DVI/USB Extended interface
C9900-T902	touch screen pen with wall holder for CP6xxx, C33xx and C36xx
C9900-F305	stainless steel front with flush-mounted touch screen for CP6207-0001, CP6607-0001, CP6907-0001, stainless steel 1.4301, matt ground with grain size 240, instead of standard aluminum front

C9900-F309	stainless steel front with flush-mounted touch screen for CP6209-0001, CP6609-0001, CP6909-0001, stainless steel 1.4301, matt ground with grain size 240, instead of standard aluminum front
C9900-F700	stainless steel front with flush-mounted touch screen for CP6201-0021, CP6601-0021, CP6701-0021-0040/0050, CP6901-0021, stainless steel 1.4301, matt ground with grain size 240, with 1-port USB A socket, stainless steel screw-on cap with internally mounted wire to hold the cap, instead of standard aluminum front
C9900-F306	stainless steel front with flush-mounted touch screen for CP6201-0001, CP6601-0001, CP6701-0001-0040/0050, CP6901-0001, stainless steel 1.4301, matt ground with grain size 240, instead of standard aluminum front
C9900-F701	stainless steel front with flush-mounted touch screen for CP6202-0021, CP6602-0021, CP6702-0021-0040/0050, CP6902-0021, stainless steel 1.4301, matt ground with grain size 240, with 1-port USB A socket, stainless steel screw-on cap with internally mounted wire to hold the cap, instead of standard aluminum front
C9900-F303	stainless steel front with flush-mounted touch screen for CP6202-0001, CP6602-0001, CP6702-0001-0040/0050, CP6902-0001, stainless steel 1.4301, matt ground with grain size 240, instead of standard aluminum front
C9900-F307	stainless steel front with flush-mounted touch screen for CP6203-0001, CP6603-0001, CP6703-0001-0040/0050, CP6903-0001, stainless steel 1.4301, matt ground with grain size 240, instead of standard aluminum front
C9900-F702	stainless steel front with flush-mounted touch screen for CP6203-0021, CP6603-0021, CP6703-0021-0040/0050, CP6903-0021, stainless steel 1.4301, matt ground with grain size 240, with 1-port USB A socket, stainless steel screw-on cap with internally mounted wire to hold the cap, instead of standard aluminum front
C9900-K560	connecting kit 1 m for CP69xx, containing: 1 m DVI cable, 1 m USB cable
C9900-K513	connecting kit 3 m for CP69xx, containing: 3 m DVI cable, 3 m USB cable
C9900-K515	connecting kit 5 m for CP69xx, containing: 5 m DVI cable, 5 m USB cable
C9900-K421	connecting kit 10 m for CP69xx including: 10 m DVI cable, 10 m Cat.5 cable for USB-E, USB to USB-E converter CU8800 (transmits USB 1.1) for mounting rail installation close to the PC and 1 m USB cable to connect the USB to USB-E converter to the PC
C9900-K423	connecting kit 20 m for CP69xx including: 20 m DVI cable, 20 m Cat.5 cable for USB-E, USB to USB-E converter CU8800 for mounting rail installation close to the PC and 1 m USB cable to connect the USB to USB-E converter to the PC
C9900-K425	connecting kit 30 m for CP69xx including: 30 m DVI cable, 30 m Cat.5 cable for USB-E, USB to USB-E converter CU8800 (transmits USB 1.1) for mounting rail installation close to the PC and 1 m USB cable to connect the USB to USB-E converter to the PC
C9900-K427	connecting kit 40 m for CP69xx including: 40 m DVI cable, 40 m Cat.5 cable for USB-E, USB to USB-E converter CU8800 (transmits USB 1.1) for mounting rail installation close to the PC and 1 m USB cable to connect the USB to USB-E converter to the PC
C9900-K429	connecting kit 50 m for CP69xx including: 50 m DVI cable, 50 m Cat.5 cable for USB-E, USB to USB-E converter CU8800 (transmits USB 1.1) for mounting rail installation close to the PC and 1 m USB cable to connect the USB to USB-E converter to the PC
C9900-K777	connecting kit 1 m for CP69xx, containing: 1 m DisplayPort to DVI cable, 1 m USB cable
C9900-K778	connecting kit 3 m for CP69xx, containing: 3 m DisplayPort to DVI cable, 3 m USB cable
C9900-K779	connecting kit 5 m for CP69xx, containing: 5 m DisplayPort to DVI cable, 5 m USB cable
C9900-M296	wall mounting frame for building installation for 5.7" economy built-in Panel PC CP6607 or economy built-in Control Panel CP6907

C9900-M311	wall mounting frame for building installation for 6.5" economy built-in Panel PC CP6609 or economy built-in Control Panel CP6909
C9900-M313	wall mounting frame for building installation for 12" economy built-in Panel PC CP6601 or economy built-in Control Panel CP6901
C9900-M314	wall mounting frame for building installation for 15" economy built-in Panel PC CP6602 or economy built-in Control Panel CP6902
C9900-M316	wall mounting frame for building installation for 19" economy built-in Panel PC CP6603 or economy built-in Control Panel CP6903
