



CP72xx | “Economy” Panel PC

The Industrial PC with mounting arm and 3½-inch motherboard

The CP72xx “Economy” Panel PC series is designed for mounting arm installation. Control Panels form the front of the IP 65 Panel PC. The right display size and keyboard are thus available for every application. The CP72xx Industrial PCs represent a powerful platform for use in machine and plant construction, for example using the TwinCAT automation software under Windows Embedded Standard or Windows XP Professional.

The PC can be equipped with a 12-, 15-, 19- or 24-inch LC display as a monitor without keys or with different types of keyboards. Optionally, a touch screen or touch pad is available. In addition, a large number of push-button extensions are available.

Cooling is achieved via cooling ribs between the Control Panel and the add-on PC. A fan inside the closed housing ensures that the heat is distributed evenly. The PC can be operated at up to 45 °C ambient temperature.

The housing is designed for installation on a mounting arm. There is a choice of attaching the mounting arm from above or below. The Panel PC features an integrated rotatable mounting arm adapter for a 48 mm

diameter mounting arm tube. Optionally, a rotatable and tiltable mounting arm adapter can be integrated in the Panel PC. The connecting cables are laid through the mounting arm.

The compact aluminium housing of the CP72xx Panel PCs is equipped with a 3½-inch Beckhoff Motherboard for Intel® Core™ Duo or Core™2 Duo.

The Industrial PC connections (up to six) with IP 65 connectors are positioned in the large wiring space and are easily accessible. The wiring area can be opened easily without dismantling the device from the mounting arm, offering fast access to the IP 65 connectors for power supply, Ethernet and optional fieldbus, USB or RS232. Prefabricated cables in various lengths are available for all connections.

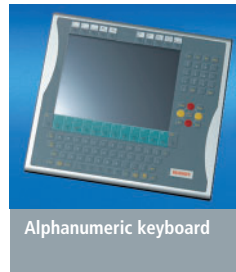
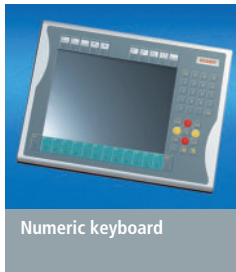
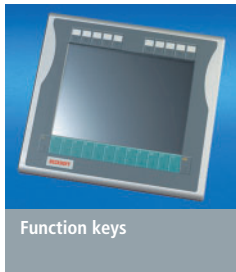
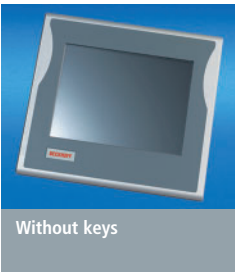
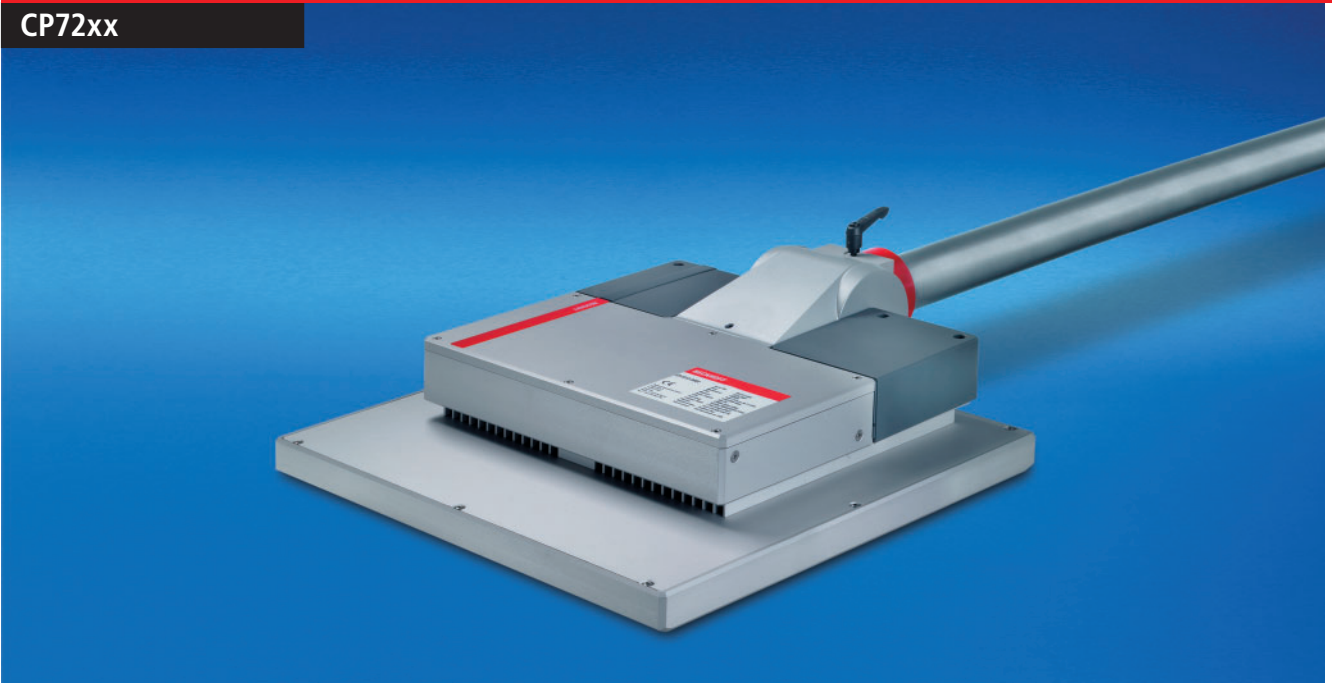
Due to its two independent Ethernet interfaces the CP72xx is ideally suited as a compact central processing unit for an EtherCAT control system. While the 100 Mbit Ethernet port offers optimum performance for all EtherCAT control tasks, a gigabit port is available for connecting the higher-level network.

The C72xx series Panel PCs are supplied with a 24 V power supply unit, optionally with integrated uninterruptible power supply (UPS). A battery pack can be connected externally and installed on a DIN rail in the control cabinet.

One or two Compact Flash Cards or up to two hard disks, as well as the lithium battery for the system clock, are accessible from the rear side underneath a cover. Two hard disks can be mirrored using the on-board SATA RAID 1 controller.

There is a Mini PCI slot in the CP72xx. The Beckhoff Mini PCI Ethernet or fieldbus cards can be factory-fitted. NOVRAM up to 512 kB is also available in the form of an optional Mini PCI plug-in card for fail-safe data storage.

CP72xx	"Economy" Panel PC	
Housing	Industrial PC with Control Panel for mounting arm installation	
	rotatable mounting arm adapter for Rittal and Rolec mounting arm systems with 48 mm tube from top	
	wiring area for up to 6 IP 65 connectors	
	1 slot for a 2½-inch hard disk and 1 slot for Compact Flash	
	lithium battery of the system clock, changeable from outside	
	passive cooling through heat sink structure between Control Panel and add-on PC, internal fan for equal heat distribution to all the walls of the housing	
	20 cm free space required around the PC for air circulation	
	protection class IP 65	
	operating temperature 0...45 °C	
Front panel	TFT display in four sizes <ul style="list-style-type: none"> – 12-inch display 800 x 600 – 15-inch display 1024 x 768 – 19-inch display 1280 x 1024 – 24-inch display 1920 x 1200 	
	front laminate in five variants <ul style="list-style-type: none"> – only display – function keys and 10 PLC special keys with LED – numeric keyboard and 10 PLC special keys with LED – alphanumeric PC keyboard in US layout and 10 PLC special keys with LED – alphanumeric PC keyboard in US layout and 16 PLC special keys with LED on the sides 	
	special keys identified by slide-in labels	
	processor Intel® Core™ Duo 2.0 GHz	
	3½-inch motherboard for Intel® Core™ Duo or Core™2 Duo	
	1 Mini PCI slot free for cards installed ex factory	
Features	512 MB DDR2RAM, expandable ex factory to 3 GB	
	on-board graphic adapter, Intel® GMA950	
	on-board dual Ethernet adapter with 1 x 10/100BASE-T and 1 x 10/100/1000BASE-T connector	
	on-board SATA RAID 1 controller, Intel® Matrix Storage Technology	
	hard disk, 2½-inch, 40 GB	
	M23 built-in socket for power supply and 1 Harting push-pull Ethernet built-in socket 10/100/1000 MBit/s in the wiring area	
	24 V DC power supply	
	Options	processor Intel® Core™2 Duo
		for variants with Intel® Celeron® M or Pentium® M see price list
touch screen pen with holder		
mounting arm adapter from bottom instead of from top		
rotatable and tiltable mounting arm adapter		
Mini PCI card with fieldbus interface or Ethernet port		
Mini PCI plug-in card with up to 512 kB NOVRAM for fail-safe storage of process data		
1 or 2 M12 built-in sockets for serial interfaces RS232 in the wiring area, optically linked, overload protection		
M12 built-in socket for USB or USB-A built-in socket with IP 65 screw-on cap in the wiring area		
2 port USB socket IP 65 inside the Control Panel backplane		
second hard disk, 2½-inch, 40 GB		
one or two Compact Flash instead of hard disk		
solid state disk SSD		
uninterruptible power supply UPS		
push-button extension with electromechanical switches and keys		
assembled connecting cables in different lengths for all interfaces		
Further information	www.beckhoff.com/CP72xx	



Ordering information	without touch screen	with touch screen	with touch pad
Display only			
12-inch display 800 x 600	CP7201-0000	CP7201-0001	
15-inch display 1024 x 768	CP7202-0000	CP7202-0001	
19-inch display 1280 x 1024	CP7203-0000	CP7203-0001	
24-inch display 1920 x 1200	CP7204-0000	CP7204-0001	
With function keys			
12-inch display 800 x 600	CP7211-0000	CP7211-0001	
15-inch display 1024 x 768	CP7212-0000	CP7212-0001	
19-inch display 1280 x 1024	CP7213-0000	CP7213-0001	
Numeric keyboard			
12-inch display 800 x 600	CP7221-0000	CP7221-0001	CP7221-0002
15-inch display 1024 x 768	CP7222-0000	CP7222-0001	CP7222-0002
19-inch display 1280 x 1024	CP7223-0000	CP7223-0001	CP7223-0002
Alphanumeric keyboard			
12-inch display 800 x 600	CP7231-0000	CP7231-0001	CP7231-0002
15-inch display 1024 x 768	CP7232-0000	CP7232-0001	CP7232-0002
19-inch display 1280 x 1024	CP7233-0000	CP7233-0001	CP7233-0002
Alphanumeric keyboard with PLC keys on the sides			
15-inch display 1024 x 768	CP7242-0000	CP7242-0001	

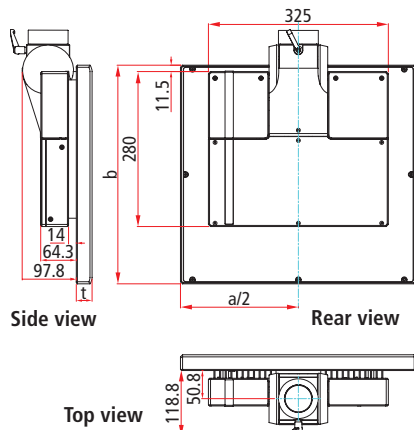
Dimensions

The drawings are available as AutoCAD DXF files at www.beckhoff.com.

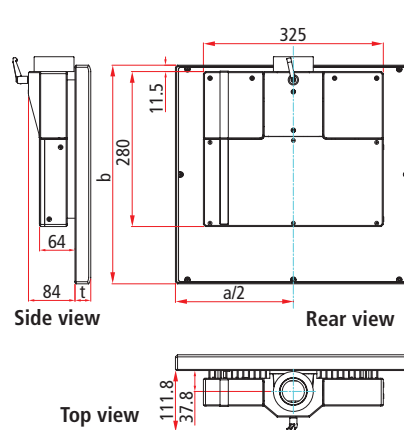
The device must be installed in the orientation that is shown in the rear view drawing.

Dimensions in mm

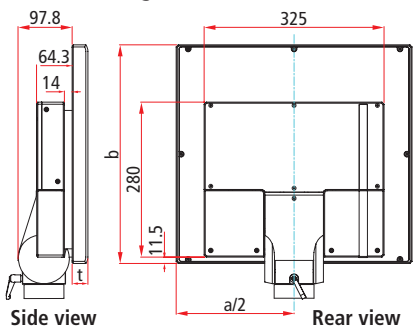
M162 mounting arm from top, rotatable and tiltable



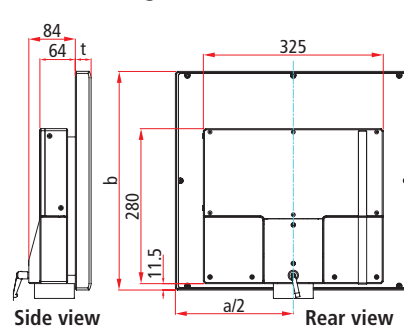
Mounting arm from top, rotatable



M163 mounting arm from bottom, rotatable and tiltable



M161 mounting arm from bottom, rotatable



Dimensions		a	b	t
Display only				
CP7201	12" display	353.8 mm	308.3 mm	29.5 mm
CP7202	15" display	426 mm	395 mm	30.5 mm
CP7203	19" display	504 mm	455 mm	47 mm
CP7204	24" display	610 mm	435 mm	53 mm
With function keys				
CP7211	12" display	353.8 mm	326.3 mm	29.5 mm
CP7212	15" display	426 mm	395 mm	30.5 mm
CP7213	19" display	504 mm	455 mm	47 mm
Numeric keyboard				
CP7221	12" display	406 mm	308.3 mm	29.5 mm
CP7221-0002	12" display	439.8 mm	308.3 mm	29.5 mm
CP7222	15" display	515 mm	370.2 mm	30.5 mm
CP7223	19" display	563 mm	426 mm	47 mm
Alphanumeric keyboard				
CP7231	12" display	406 mm	370.2 mm	29.5 mm
CP7231-0002	12" display	426 mm	370.2 mm	29.5 mm
CP7232	15" display	485 mm	410.2 mm	30.5 mm
CP7233	19" display	504 mm	535 mm	47 mm
Alphanumeric keyboard with PLC keys on the sides				
CP7242	15" display	445 mm	450 mm	28.5 mm