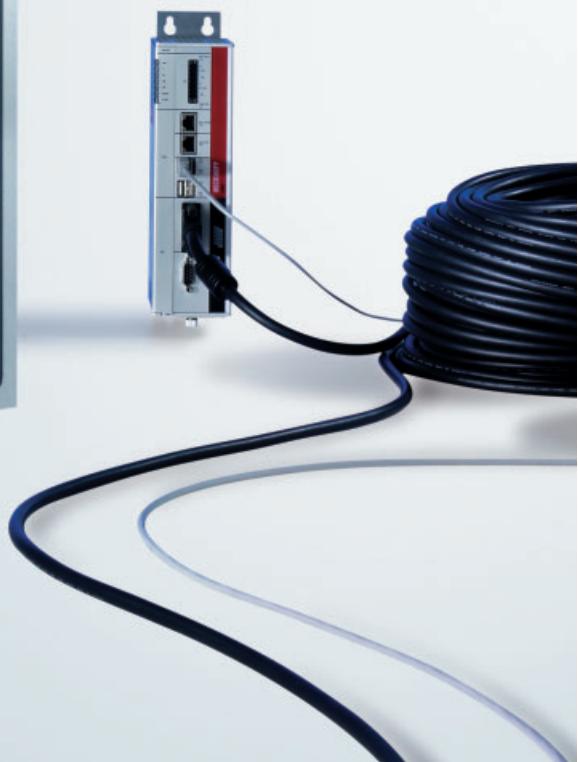


"Economy" Control Panels

The new generation of built-in Panel PCs and Control Panels



BECKHOFF New Automation Technology

"Economy" Panels | Built-in Panel PCs and Control Panels

Slimline, elegant design with large user interface and small mounting depth

Flexible front: TFT display, optionally with touch screen or touch pad, as monitor without keyboard or with different membrane keyboard models, including full alphanumeric keyboards with special PLC keys

Robust: aluminium front with sheet-steel back cover (front IP 65, rear IP 20)

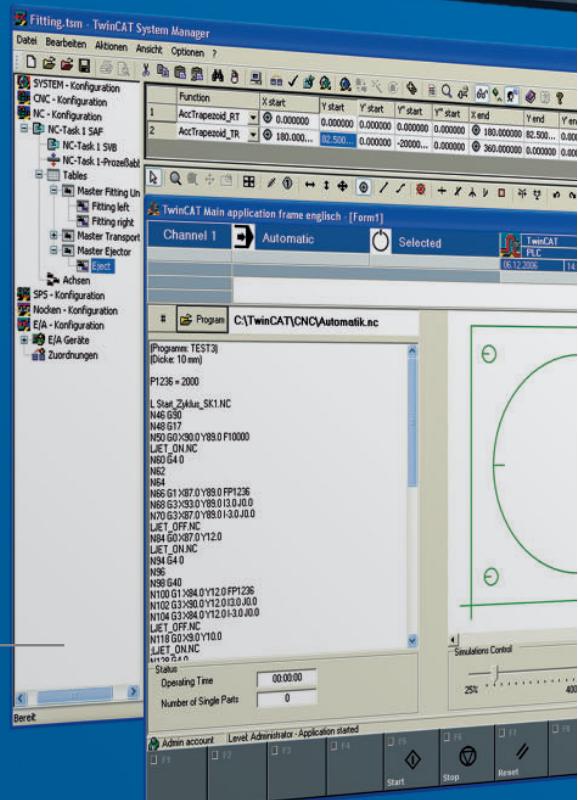
Fast assembly:
assembly via pull-out clamping levers

Solid: aluminium front with integrated,
highly resistant front membrane

"Economy" Control Panels with 6.5", 12",
15" or 19" TFT display

Customer-specific design:
individual design allows implementation
of corporate identity

Installation in control
cabinet wall or operator
panels, or integration in
a building wall



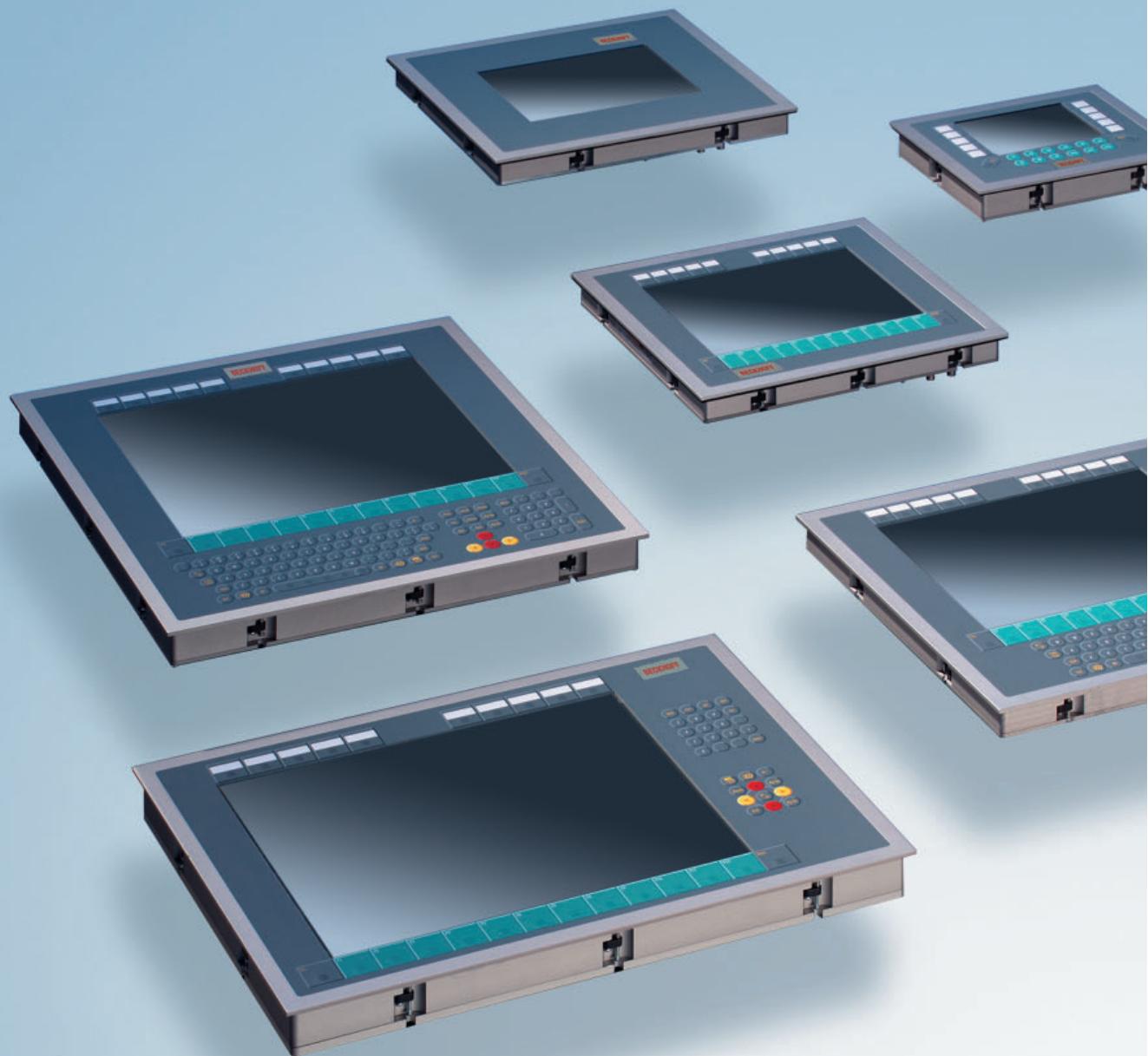
BECKHOFF

Different connection types:
Panel PC (CP62xx), Ethernet
Panel (CP66xx) or DVI/USB Panel
(CP69xx)





The Control Panel toolkit



"Economy" series | Display types



Without keys



Function keys



Numeric keyboard



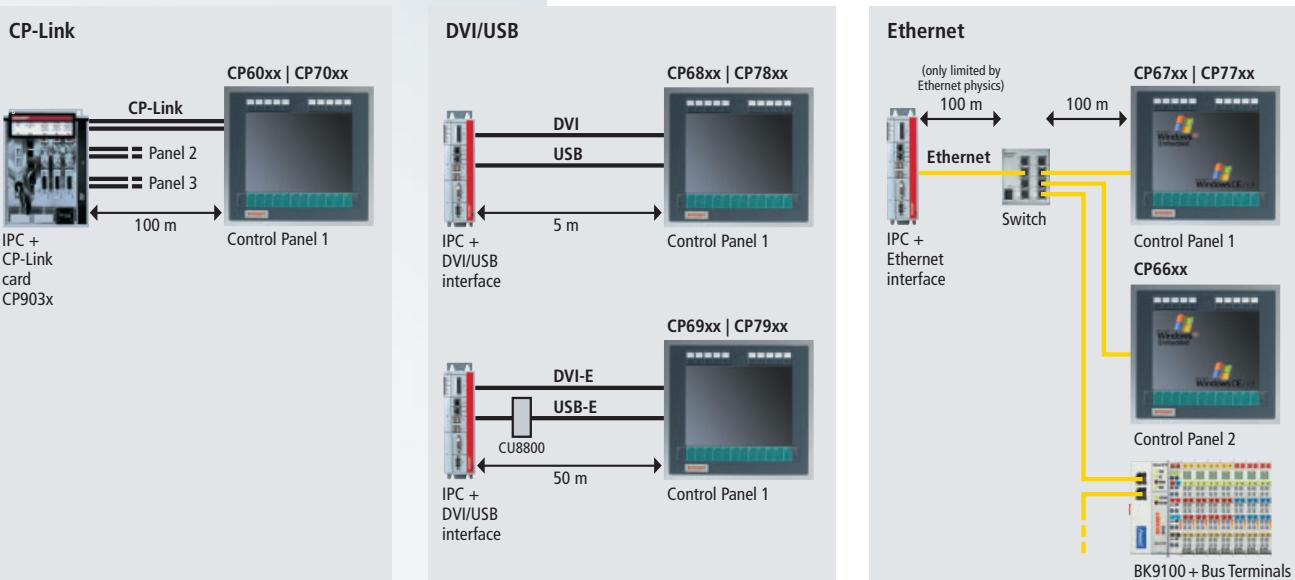
Alphanumeric keyboard



Beckhoff Control Panel with
customer-specific design



Connectivity



"Economy" Panel | Beckhoff Motherboards inside

Efficient cooling adaptation | The layout of the boards is optimised for efficient cooling.

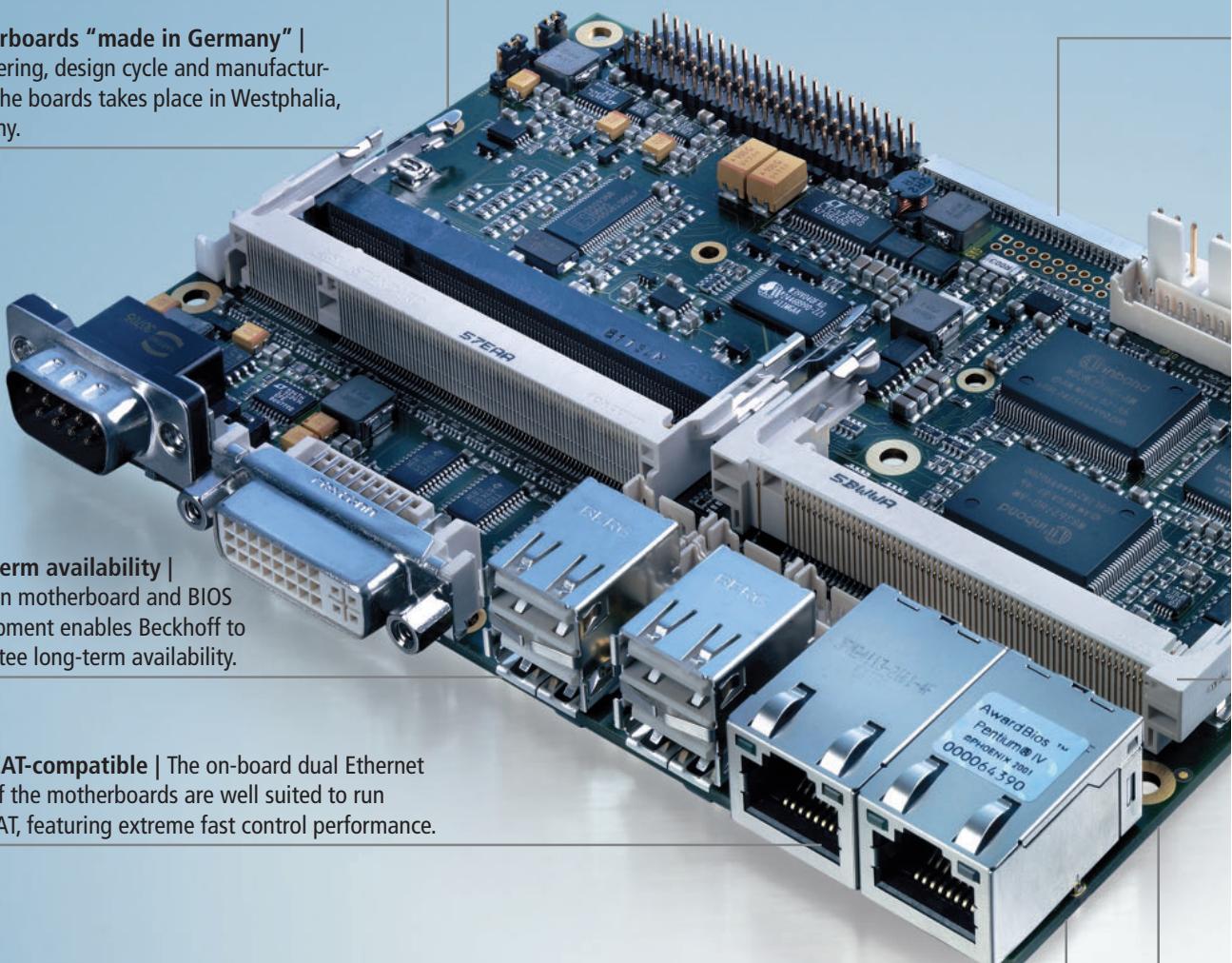
Motherboards "made in Germany" | Engineering, design cycle and manufacturing of the boards takes place in Westphalia, Germany.

Long-term availability | The own motherboard and BIOS development enables Beckhoff to guarantee long-term availability.

EtherCAT-compatible | The on-board dual Ethernet ports of the motherboards are well suited to run EtherCAT, featuring extreme fast control performance.

Flexible PC BIOS software | Full BIOS source code access for Phoenix and Award BIOS makes it possible to adapt to special board functions or introduce specific customer requirements.

3.5-inch Motherboard



 <p>"Economy"</p> <p>Auxiliary on-board interfaces On-board touch screen controller, I2C, SMB, and GPIO</p>	<p>Panel PC CP62xx</p> <p>High-performance Panel PC series with state-of-the-art Industrial PC technology in slimline aluminium housing. A 3½" Beckhoff Motherboard is the centrepiece of the device:</p> <ul style="list-style-type: none"> – Processor: Intel® Celeron® M ULV 1.0 GHz or Intel® Pentium® M 1.8 GHz, Core™ Duo (in preparation) – Display: 12", 15" or 19" TFT display – Main memory: 256 MB up to 2 GB DDR RAM – Hard disks: Compact Flash and/or 2½" hard disk – Graphic system: on-board – Interface: 2 Ethernet ports, 4 USB 2.0 ports, 1 x RS232 – Free slots: 1 Mini PCI slot – Operating system: Windows XP, Windows XP Embedded, Windows CE (Microsoft Vista in preparation)
 <p>"Economy"</p> <p>Mini PCI on-board Additional sockets for fieldbus master/slaves, Ethernet and NOVRAM</p>	 <p>Ethernet Control Panel CP66xx</p> <p>Built-in Control Panel series with integrated PC. The CP66xx Ethernet Panels can be operated as stand-alone PC or as terminal client for a Microsoft Windows terminal server:</p> <ul style="list-style-type: none"> – Processor: Intel® IXP420 processor with XScale® technology, 266 MHz display: 5.7", 6.5", 12", 15" or 19" TFT display – Main memory: 128 MB on-board RAM – Graphic system: on-board – Interface: 2 Ethernet ports, 2 USB 2.0 ports, 1 x RS232 – Free slots: 1 Mini PCI slot – Hard disks: on-board flash or Compact Flash card – Operating system: Windows CE
 <p>"Economy"</p>	<p>DVI/USB Control Panel CP69xx</p> <p>The CP69xx built-in Control Panel series combines reliable Beckhoff panel design with state-of-the-art Industrial PC technology. All "Economy" DVI/USB Panels feature integrated DVI/USB extension technology, enabling remote panel operation at a distance of up to 50 m from the PC via a standard cable:</p> <ul style="list-style-type: none"> – Display: 6.5", 12", 15" or 19" TFT display – Standard DVI (for image transfer) and USB (for touch screen, keyboard, etc.) technologies are used. – DVI/USB extension: The panel can be positioned at distances of up to 50 m from the PC.
 <p>Beckhoff is Microsoft Embedded Gold Partner and recognized for excellence as a proven industry leader with exceptional expertise in building and enabling Windows embedded solutions.</p>	<p>BECKHOFF New Automation Technology</p>

CP62xx "Economy" built-in Panel PCs

Panel PC with
12", 15" or 19"
TFT display

Operating system:
Windows XP, Windows XP Embedded,
Windows CE

Main memory:
256 MB DDR RAM,
expandable to 2 GB

Intel® power:
Intel® Celeron® M ULV 1.0 GHz,
Intel® Celeron® M 1.5 GHz or
Intel® Pentium® M 1.8 GHz,
Intel® Core™ Duo
(in preparation)

Optional IDE hard
disk, 2½-inch

1 free Mini PCI
slot for fieldbus
cards

Compact Flash card

Lithium battery

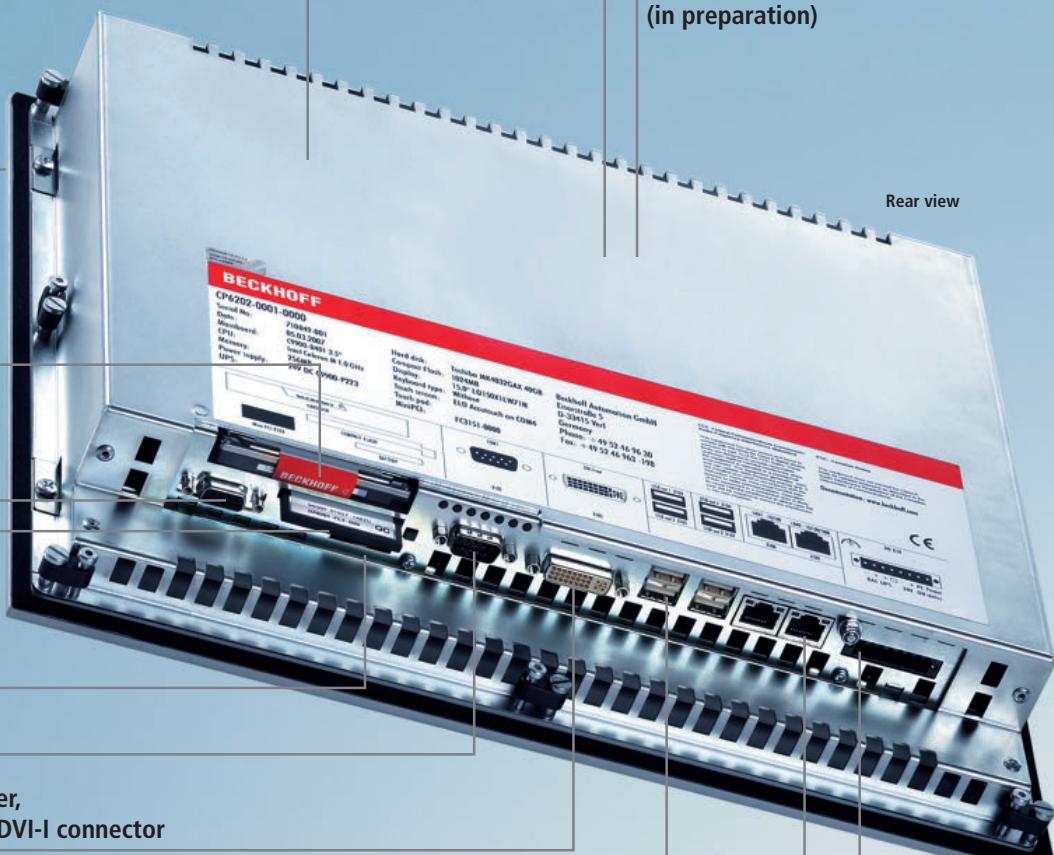
1 serial interface RS232

On-board graphic adapter,
Intel® Extreme Graphic, DVI-I connector

4 USB 2.0 ports

On-board dual Ethernet adapter
1 x 10/100BASE-T and 1 x 100/1000BASE-T connector

Rear view



Power
supply
(optional:
integrated
UPS)



Front view



Side view

The CP62xx built-in Panel PC series combines reliable Beckhoff Panel design with state-of-the-art Industrial PC technology. A 3½" Beckhoff Motherboard is the centrepiece of the device. The Panel PC is equipped with a 1.0 GHz Intel® Celeron® M ULV processor and 64 MB Compact Flash as standard (expandable up to 2 GB). It is approved for operation without rotating parts at ambient temperatures between 0 °C and 55 °C. Further options include high-performance Intel® Celeron® M 1.5 GHz and Pentium® M 1.8 GHz processors, optionally with fan. In conjunction with the high-performance TwinCAT automation software, the CP62xx Panel PCs are ideally suited for machine or plant engineering applications. In the course of 2007, Core™ Duo processors based on the Intel® 945 chipset will become available.



Panel PC	Display Resolution	12-inch 800 x 600	15-inch 1024 x 768	19-inch 1280 x 1024
without touch screen	without keys	CP6201-0000	CP6202-0000	CP6203-0000
	without keys, USB socket in the front	CP6201-0010	CP6202-0010	CP6203-0010
	function keys	CP6211-0000	CP6212-0000	CP6213-0000
	numeric	CP6221-0000	CP6222-0000	CP6223-0000
	alphanumeric	CP6231-0000	CP6232-0000	CP6233-0000
with touch screen	without keys	CP6201-0001	CP6202-0001	CP6203-0001
	without keys, USB socket in the front	CP6201-0011	CP6202-0011	CP6203-0011
	function keys	CP6211-0001	CP6212-0001	CP6213-0001
	numeric	CP6221-0001	CP6222-0001	CP6223-0001
	alphanumeric	CP6231-0001	CP6232-0001	CP6233-0001
with touch pad	numeric	CP6221-0002	CP6222-0002	CP6223-0002
	alphanumeric	CP6231-0002	CP6232-0002	CP6233-0002

CP62xx		Options
Front panel		
TFT display		12-inch (800 x 600), 15-inch (1024 x 768) or 19-inch (1280 x 1024)
Features		
Processor	Intel® Celeron® M ULV 1.0 GHz (fanless)	Intel® Celeron® M 1.5 GHz or Intel® Pentium® M 1.8 GHz with a fan cartridge at the rear side of the Panel PC housing
Motherboard	3½" Motherboard for Intel® Celeron® M or Pentium® M	
Main memory	256 MB DDR RAM, expandable up to 2 GB	
Graphic	on-board, Intel® Extreme Graphic, DVI-I connector	adapter cable DVI-I to DVI and VGA
Ethernet	on-board dual Ethernet adapter with 1 x 10/100BASE-T and 1 x 100/1000BASE-T connector	
Interfaces	1 serial interface RS232 and 4 USB 2.0 ports	
Free slots	1 Mini PCI slot	
Hard disks	64 MB Compact Flash, type 1, extended temperature range, Compact Flash socket accessible from the rear side	larger Compact Flash card or IDE hard disk 2½-inch, 40 GB
Operating system	Microsoft Windows CE (English)	
Housing		
System clock	lithium battery exchangeable from outside	
Power supply	24 V DC	uninterruptible power supply UPS
Operating temp.	0 ... 55 °C	
Protection class	front side IP 65, rear side IP 20	
Accessories		
Software	TwinCAT PLC, NC, CNC	
NOVRAM	memory module up to 512 kB for fail-safe storage of process data	
Push-button ext.	electromechanical switches and keys	
Touch screen	touch screen pen with wall holder	

→ For further information: www.beckhoff.com/cp62xx

CP66xx

"Economy" built-in Control Panels with Ethernet interface

Ethernet on-board:
2 x 10/100BASE-T

Built-in Control Panel
with 5.7", 6.5", 12", 15"
or 19" TFT display

Operating system:
Windows CE

Integrated PC:
Intel® IXP420 processor
with XScale® technology,
266 MHz

Interfaces:
1 x RS232,
2 x USB 2.0

Main memory:
128 MB on-board RAM

1 free Mini PCI slot
for fieldbus cards

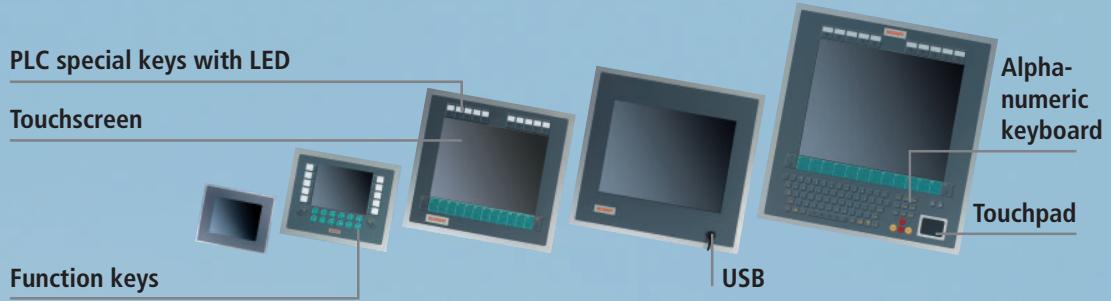
Operation as PC
or terminal client

Mass storage:
32 MB on-board flash
or Compact Flash card



The CP66xx built-in Control Panel series combines reliable Beckhoff Panel design with state-of-the-art Industrial PC technology. The CP66xx Ethernet Control Panels are equipped with a 266 MHz Intel® IXP420 processor with XScale® technology. They include 32 MB on-board flash and 128 MB on-board RAM as standard, which can optionally be extended with up to 512 kB of NOVRAM. The Panels also feature an SM501 on-board graphics adapter (max. resolution 1280 x 1024) and a spare Mini PCI slot. External interfaces include 2 x Ethernet with 10/100BASE-T, 1 x RS232, 1 x Compact Flash socket, and 2 x USB 2.0 ports. All CP66xx Panels run under Windows CE as standard. The Panel PC can be operated as an independent PC or as a terminal client of a Microsoft Windows terminal server. Connection options: Ethernet Coupler, EtherCAT Terminals, bar code scanner.

Rear view



Built-in Control Panel	Display Resolution	5.7-inch 320 x 240	6.5-inch 640 x 480	12-inch 800 x 600	15-inch 1024 x 768	19-inch 1280 x 1024
without touch screen	without keys		CP6609-0000	CP6601-0000	CP6602-0000	CP6603-0000
	without keys, USB socket in the front			CP6601-0010	CP6602-0010	CP6603-0010
	function keys		CP6619-0000	CP6611-0000	CP6612-0000	CP6613-0000
	numeric		CP6629-0000	CP6621-0000	CP6622-0000	CP6623-0000
	alphanumeric			CP6631-0000	CP6632-0000	CP6633-0000
with touch screen	without keys	CP6608-0001	CP6609-0001	CP6601-0001	CP6602-0001	CP6603-0001
	without keys, USB socket in the front			CP6601-0011	CP6602-0011	CP6603-0011
	function keys		CP6619-0001	CP6611-0001	CP6612-0001	CP6613-0001
	numeric		CP6629-0001	CP6621-0001	CP6622-0001	CP6623-0001
	alphanumeric			CP6631-0001	CP6632-0001	CP6633-0001
with touch pad	numeric			CP6621-0002	CP6622-0002	CP6623-0002
	alphanumeric			CP6631-0002	CP6632-0002	CP6633-0002

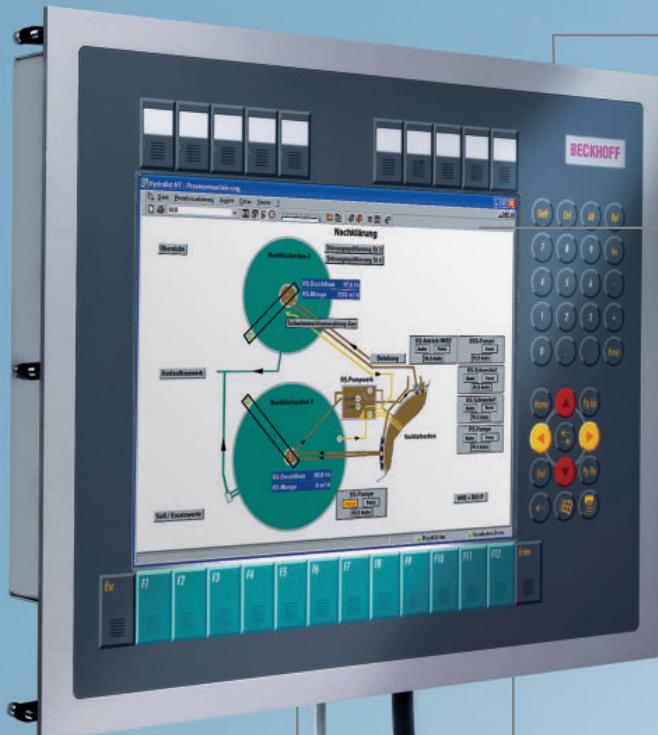
CP66xx		Options
Front panel		
TFT display		5.7-inch (320 x 240), 6.5-inch (640 x 480), 12-inch (800 x 600), 15-inch (1024 x 768) or 19-inch (1280 x 1024)
Features		
Processor		Intel® IXP420 with XScale® core, 266 MHz
Motherboard		integrated PC, 3½" Motherboard for Intel® IXP processor with XScale® technology
Main memory		128 MB on-board RAM
Graphic		on-board graphic adapter, graphic chip SM501 (max. resolution 1280 x 1024)
Ethernet		2 RJ 45 Ethernet connectors 10/100 Mbit
Interfaces		1 serial interface RS232 (D-Sub, 9-pin) and 2 USB 2.0 ports
Free slots		1 Mini PCI slot (not with 5.7-inch panel)
		fieldbus interface or Ethernet port or RS422/485
Hard disks		32 MB on-board flash, Compact Flash socket accessible from the rear side
		Compact Flash card (not with 5.7-inch panel)
Operating system		Microsoft Windows CE (English)
Housing		
System clock		lithium battery exchangeable from outside
Power supply		24 V DC
Operating temp.		0 ... 55 °C
Protection class		front side IP 65, rear side IP 20
Accessories		
Software		TwinCAT run-time for Windows CE
NOVRAM		memory module up to 512 kB for fail-safe storage of process data
Push-button ext.		electromechanical switches and keys (not with 5.7-inch panel)
Touch screen		touch screen pen with wall holder

→ For further information: www.beckhoff.com/cp66xx

CP69xx

"Economy" built-in Control Panels with DVI/USB Extend

High-performance, cost-effective displays
in robust aluminium housing



DVI/USB extension technology: The panel can be positioned at distances of up to 50 m from the PC.

USB is only required for input devices such as touch screen or keyboard.

Built-in Control Panel with 6.5", 12", 15" or 19" TFT display

Standard DVI (for image transfer) and USB (for touch screen, keyboard, etc.) technologies are used.

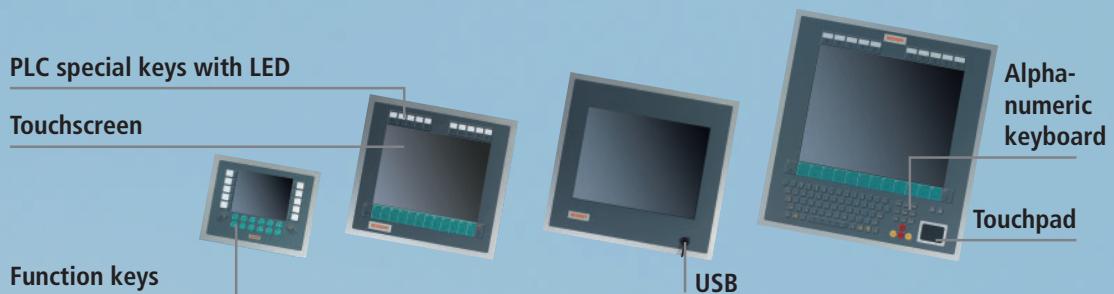


The CP69xx built-in Control Panel series is equipped with a 3½" interface board and combines proven Beckhoff Panel design with state-of-the-art Industrial PC technology. All "Economy" DVI/USB Panels feature integrated DVI/USB extension technology, enabling remote panel operation at a distance of up to 50 m from the PC via a standard cable.

The graphics signal is transferred directly via DVI cable over a maximum distance of 50 m, while the USB signal is transferred to a CAT5 cable at the PC, in order to extend the 5 m limit of the USB specification to a distance of up to 50 m. For distances up to 5 m the PC and the Control Panel can be connected directly via a USB cable.

Rear view

ed interface



Built-in Control Panel	Display Resolution	6.5-inch 640 x 480	12-inch 800 x 600	15-inch 1024 x 768	19-inch 1280 x 1024
without touch screen	without keys	CP6909-0000	CP6901-0000	CP6902-0000	CP6903-0000
	without keys, USB socket in the front		CP6901-0010	CP6902-0010	CP6903-0010
	function keys	CP6919-0000	CP6911-0000	CP6912-0000	CP6913-0000
	numeric	CP6929-0000	CP6921-0000	CP6922-0000	CP6923-0000
	alphanumeric		CP6931-0000	CP6932-0000	CP6933-0000
with touch screen	without keys	CP6909-0001	CP6901-0001	CP6902-0001	CP6903-0001
	without keys, USB socket in the front		CP6901-0011	CP6902-0011	CP6903-0011
	function keys	CP6919-0001	CP6911-0001	CP6912-0001	CP6913-0001
	numeric	CP6929-0001	CP6921-0001	CP6922-0001	CP6923-0001
	alphanumeric		CP6931-0001	CP6932-0001	CP6933-0001
with touch pad	numeric		CP6921-0002	CP6922-0002	CP6923-0002
	alphanumeric		CP6931-0002	CP6932-0002	CP6933-0002

CP69xx		Options
Front panel		
TFT display	6.5-inch (640 x 480), 12-inch (800 x 600), 15-inch (1024 x 768) or 19-inch (1280 x 1024)	
Front laminate		
Front laminate	<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 keypad in US layout and 10 PLC special keys with LED 	
Features		
DVI/USB interface	integrated DVI/USB extension technology <ul style="list-style-type: none"> – DVI-E and USB-E enable remote panel operation at a distance of up to 50 m from the PC. – DVI-E input is compatible to the standard DVI output of a PC. 	
USB interface	USB (type B) input enables the direct connection to a standard USB output of a PC with distances of up to 5 m.	
Housing		
Power supply	24 V DC	
Operating temp.	0 ... 55 °C	
Protection class	front side IP 65, rear side IP 20	
Accessories		
Cordsets	connection kit up to 50 m	
Push-button ext.	electromechanical switches and keys	
Touch screen	touch screen pen with wall holder	

→ For further information: www.beckhoff.com/cp69xx

Beckhoff | The IPC Company



Panel PCs



NEW
CP62xx | "Economy" built-in
Panel PC



CP63xx | Compact built-in PC
with Slot Motherboard



CP64xx | Flat built-in PC
with Slot Motherboard



CP65xx | Universal built-in PC
with ATX Motherboard



CP71xx | The waterproof Panel PC
with Slot Motherboard, PCI slot and
DVD drive



NEW
CP72xx | The waterproof Panel PC
with 3½-inch Motherboard and Mini
PCI slot



C33xx | 19-inch Panel PC
with ATX Motherboard



C36xx | Built-in Panel PC
with ATX Motherboard

Industrial PCs



C51xx | 19-inch slide-in Industrial
PC with Slot or ATX Motherboard



C61xx | Control cabinet PC
with Slot or ATX Motherboard



C62xx | Control cabinet PC
with Slot or ATX Motherboard



C63xx | Control cabinet PC
with Slot Motherboard



C69xx | Control cabinet PC
with 3½-inch Motherboard



Control Panels

CP-Link



CP60xx | Built-in Control Panel

Ethernet



CP67xx | Built-in Control Panel

NEW

CP66xx | "Economy" built-in Control Panel

DVI/USB



CP68xx | Built-in Control Panel



CP69xx | "Economy" built-in Control Panel

NEW



CP70xx | Control Panel



CP77xx | Control Panel



CP78xx | Control Panel



CP79xx | Control Panel

NEW

Embedded PCs



CX1030 | Embedded PC
with Intel® Pentium® M CPU,
1.8 GHz



CX1020 | Embedded PC
with Intel® Celeron® M ULV CPU,
1 GHz



CX1010 | Embedded PC
with Pentium® MMX-compatible CPU,
500 MHz



CX9000, CX9010 | Embedded PC
with Intel® IXP420 XScale® technology,
266/533 MHz

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