

The IPC Company

The Industrial PC (IPC) is the hardware centerpiece of PC-based control technology. Beckhoff supplies Industrial PCs suitable for any application, which are based on open standards, enabling individual configuration to meet a wide range of control requirements.

Whether in the form of an Embedded PC with a compact form-factor for DIN rail mounting, a control cabinet PC, or as a Panel PC, in-house motherboard development enables Beckhoff to respond quickly to IT trends and customer-specific requirements.

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Ultra-compact
Industrial PC
in IP65/67

Multi-touch Panel PCs 14

- large model variety
- high computing power
- display sizes from 7-inch to 24-inch
- easy installation in the front of a control cabinet or on mounting arms
- special versions for explosion protection
- customer-specific implementations

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Multi-touch Control Panels 15

- large model variety
- display sizes from 7-inch to 24-inch
- landscape and portrait orientation
- easy installation in the front of a control cabinet or on mounting arms
- special versions for explosion protection
- customer-specific implementations

► www.beckhoff.com/multi-touch

Single-touch Panels 16

- Control Panels or Panel PCs
- display sizes from 5.7-inch to 19-inch
- easy installation in the front of a control cabinet or on mounting arms
- customer-specific implementations

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PCs 18

- scalable performance range
- highest computing power
- industrial-strength housing designs
- multiple features
- high flexibility in terms of display connections

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Embedded PCs 22

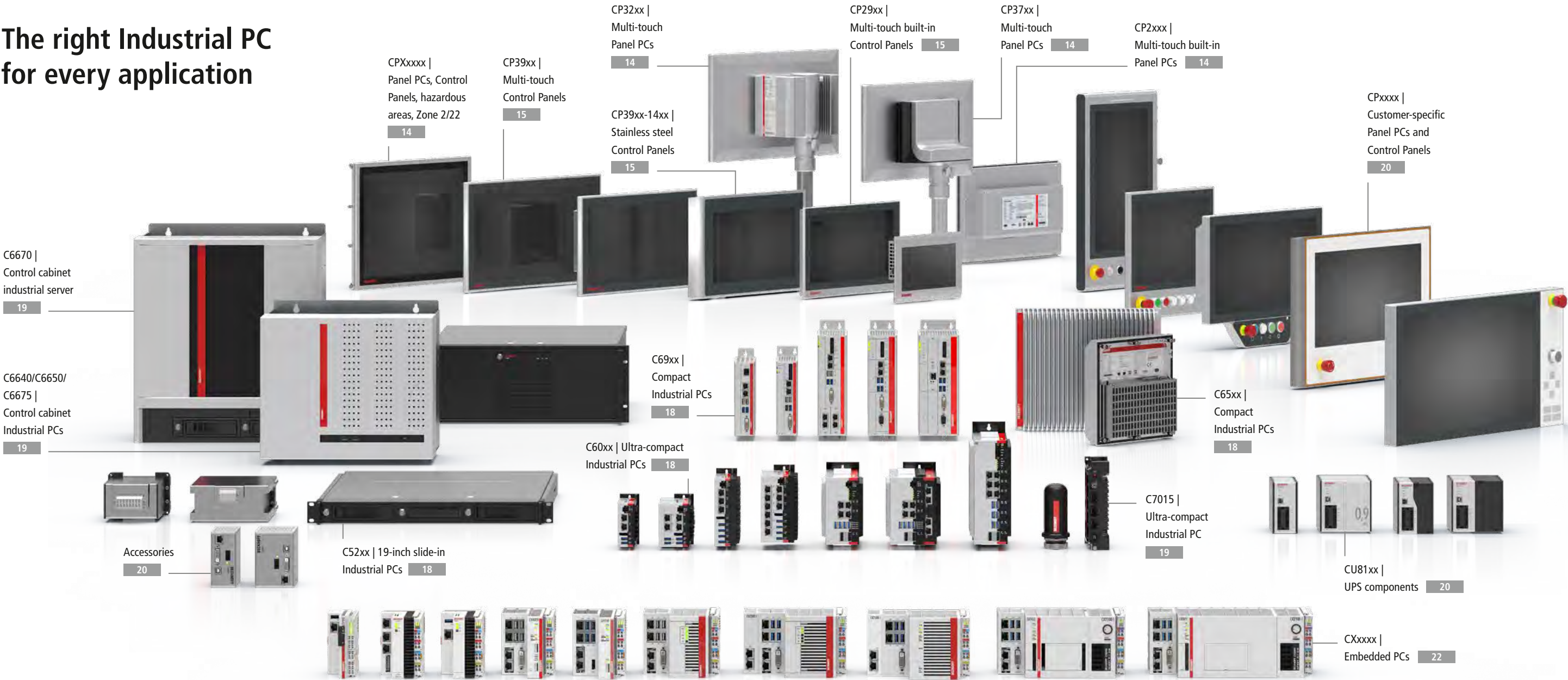
- scalable performance range
- up to 12 cores
- compact design
- direct I/O interface
- modular extension options
- DIN rail mounting

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- large model variety of Industrial PCs and Embedded PCs
- high-performance PCs, featuring a wide range of processors, from Intel® Celeron® to top of the line Core™ i9 processors
- long-term availability of all Industrial PCs and Embedded PCs
- As the inventor of PC-based control technology, Beckhoff closely cooperates with global technology partners Intel and Microsoft.

The right Industrial PC for every application



Industrial PCs							
	Compact motherboard Intel® Core™	Compact motherboard Intel Atom®	ATX motherboard Intel® Core™	3½-inch motherboard Intel® Core™	3½-inch motherboard Intel Atom®	3½-inch motherboard ARM Cortex™-A8	Control Panel
Multi-touch Panel PCs/Control Panels				CP22xx CP32xx	CP27xx/CPX27xx CP37xx/CPX37xx	CP26xx	CP29xx/CPX29xx CP39xx/CPX39xx
Single-touch Panel PCs/Control Panels		CP77xx		CP62xx CP72xx	CP67xx	CP66xx	CP69xx CP79xx
19-inch slide-in Industrial PCs			C5240	C5210			
Control cabinet Industrial PCs	C6025	C6015	C6140/C6150	C6515/C6525	C6905/C6915		
	C6027	C6017	C6240/C6250	C6920/C6930	C6925		
	C6030		C6640/C6650				
	C6032		C6675				
	C6040						
IP65 Industrial PCs		C7015					

Control cabinet industrial server	
SSI EEB motherboard	
2 x Intel® Xeon®	
C6670	

Multi-touch Panel PCs

► www.beckhoff.com/multi-touch



Multi-touch built-in Panel PCs, front side IP65										
	Display	7-inch	12-inch	12.1-inch	15-inch	15.6-inch	18.5-inch	19-inch	21.5-inch	24-inch
	Resolution	800 x 480	800 x 600	1280 x 800	1024 x 768	1366 x 768	1366 x 768	1280 x 1024	1920 x 1080	1920 x 1080
	Format	5:3	4:3	16:10	4:3	16:9	16:9	5:4	16:9	16:9
CP22xx	multi-finger touch screen		CP2212	CP2213	CP2215	CP2216	CP2218	CP2219	CP2221	CP2224
– up to Intel® Core™ i3/i5/i7										
CP26xx	dual-finger touch screen	CP2607	CP2612	CP2613	CP2615	CP2616	CP2618	CP2619	CP2621	CP2624
– ARM Cortex™-A8										
CP27xx	multi-finger touch screen, only horizontal		CP2712	CP2713	CP2715 CPX2715	CP2716	CP2718	CP2719 CPX2719	CP2721 CPX2721	CP2724
– Intel® Celeron® ULV or Atom®										

Multi-touch Panel PCs, all sides IP65										
	Display	7-inch	12-inch	12.1-inch	15-inch	15.6-inch	18.5-inch	19-inch	21.5-inch	24-inch
	Resolution	800 x 480	800 x 600	1280 x 800	1024 x 768	1366 x 768	1366 x 768	1280 x 1024	1920 x 1080	1920 x 1080
	Format	5:3	4:3	16:10	4:3	16:9	16:9	5:4	16:9	16:9
CP32xx	multi-finger touch screen, only horizontal		CP3212		CP3215	CP3216	CP3218	CP3219	CP3221	CP3224
– up to Intel® Core™ i3/i5/i7										
CP32xx-1600	multi-finger touch screen, only horizontal, mounting arm adapter selectable				CP3215-1600	CP3216-1600	CP3218-1600	CP3219-1600	CP3221-1600	CP3224-1600
– up to Intel® Core™ i3/i5/i7										
CP37xx	multi-finger touch screen, only horizontal		CP3712	CP3713	CP3715 CPX3715	CP3716	CP3718	CP3719 CPX3719	CP3721 CPX3721	CP3724
– Intel Atom®										
CP37xx-1600	multi-finger touch screen, only horizontal, fanless without cooling fins				CP3715-1600-0020	CP3716-1600-0020	CP3718-1600-0020	CP3719-1600-0020	CP3721-1600-0020	CP3724-1600-0020
– Intel Atom®										

Multi-touch Control Panels

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Multi-touch built-in Control Panels, front side IP65										
	Display	7-inch	12-inch	12.1-inch	15-inch	15.6-inch	18.5-inch	19-inch	21.5-inch	24-inch
	Resolution	800 x 480	800 x 600	1280 x 800	1024 x 768	1366 x 768	1366 x 768	1280 x 1024	1920 x 1080	1920 x 1080
	Format	5:3	4:3	16:10	4:3	16:9	16:9	5:4	16:9	16:9
CP29xx-0000	multi-finger touch screen	CP2907-0000	CP2912-0000	CP2913-0000	CP2915-0000 CPX2915-0000	CP2916-0000	CP2918-0000	CP2919-0000 CPX2919-0000	CP2921-0000 CPX2921-0000	CP2924-0000
– DVI/USB Extended interface*										
CP29xx-0010	multi-finger touch screen	CP2907-0010	CP2912-0010	CP2913-0010	CP2915-0010	CP2916-0010	CP2918-0010	CP2919-0010	CP2921-0010	CP2924-0010
– CP-Link 4*										

Multi-touch Control Panels, all sides IP65										
	Display	7-inch	12-inch	12.1-inch	15-inch	15.6-inch	18.5-inch	19-inch	21.5-inch	24-inch
	Resolution	800 x 480	800 x 600	1280 x 800	1024 x 768	1366 x 768	1366 x 768	1280 x 1024	1920 x 1080	1920 x 1080
	Format	5:3	4:3	16:10	4:3	16:9	16:9	5:4	16:9	16:9
CP39xx-0000	multi-finger touch screen	CP3907-0000	CP3912-0000	CP3913-0000	CP3915-0000	CP3916-0000	CP3918-0000	CP3919-0000	CP3921-0000	CP3924-0000
– DVI/USB Extended interface*										
CP39xx-0010	multi-finger touch screen	CP3907-0010	CP3912-0010	CP3913-0010	CP3915-0010 CPX3915-0010	CP3916-0010	CP3918-0010	CP3919-0010 CPX3919-0010	CP3921-0010 CPX3921-0010	CP3924-0010
– CP-Link 4*										
CP39xx-14xx-0010	multi-finger touch screen, stainless steel housing			CP3913-14xx-0010		CP3916-14xx-0010	CP3918-14xx-0010			
– CP-Link 4*										

*For further information on DVI/USB Extended and CP-Link 4 see page 21

Single-touch panels

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Single-touch built-in Panel PCs, front side IP54/65								
	Display	5.7-inch	6.5-inch	7-inch	10.1-inch	12-inch	15-inch	19-inch
	Resolution	640 x 480	640 x 480	800 x 480	1024 x 600	800 x 600	1024 x 768	1280 x 1024
	Format	4:3	4:3	5:3	17:10	4:3	4:3	5:4
	Protect. rating front	IP65	IP65	IP54	IP54	IP65	IP65	IP65
CP62xx – 3½-inch motherboard – up to Intel® Core™ i3/i5/i7	without keys					CP6201	CP6202	CP6203
	function keys					CP6211	CP6212	CP6213
	numerical					CP6221	CP6222	CP6223
	alphanumeric					CP6231	CP6232	CP6233
						CP6242		
CP66xx – 3½-inch motherboard – ARM Cortex™-A8	without keys	CP6607	CP6609			CP6601	CP6602	CP6603
	function keys		CP6619			CP6611	CP6612	CP6613
	numerical		CP6629			CP6621	CP6622	CP6623
	alphanumeric					CP6631	CP6632	CP6633
CP6606, CP6600 – 3½-inch motherboard – ARM Cortex™-A8	without keys			CP6606	CP6600			
CP67xx – 3½-inch motherboard – Intel® Celeron® ULV or Atom®	without keys	CP6707				CP6701	CP6702	CP6703
	function keys					CP6711	CP6712	CP6713
	numerical					CP6721	CP6722	CP6723
	alphanumeric					CP6731	CP6732	CP6733
CP6706, CP6700 – 3½-inch motherboard – Intel Atom®	without keys			CP6706	CP6700			

Single-touch Panel PCs, all sides IP65								
	Display	5.7-inch	6.5-inch	7-inch	10.1-inch	12-inch	15-inch	19-inch
	Resolution	640 x 480	640 x 480	800 x 480	1024 x 600	800 x 600	1024 x 768	1280 x 1024
	Format	4:3	4:3	5:3	17:10	4:3	4:3	5:4
CP72xx – 3½-inch motherboard – up to Intel® Core™ i3/i5/i7	without keys					CP7201	CP7202	CP7203
	function keys					CP7211	CP7212	CP7213
	numerical					CP7221	CP7222	CP7223
	alphanumeric					CP7231	CP7232	CP7233
CP77xx – CP motherboard – Intel Atom®	without keys					CP7701	CP7702	CP7703
	function keys					CP7711	CP7712	CP7713
	numerical					CP7721	CP7722	CP7723
	alphanumeric					CP7731	CP7732	CP7733

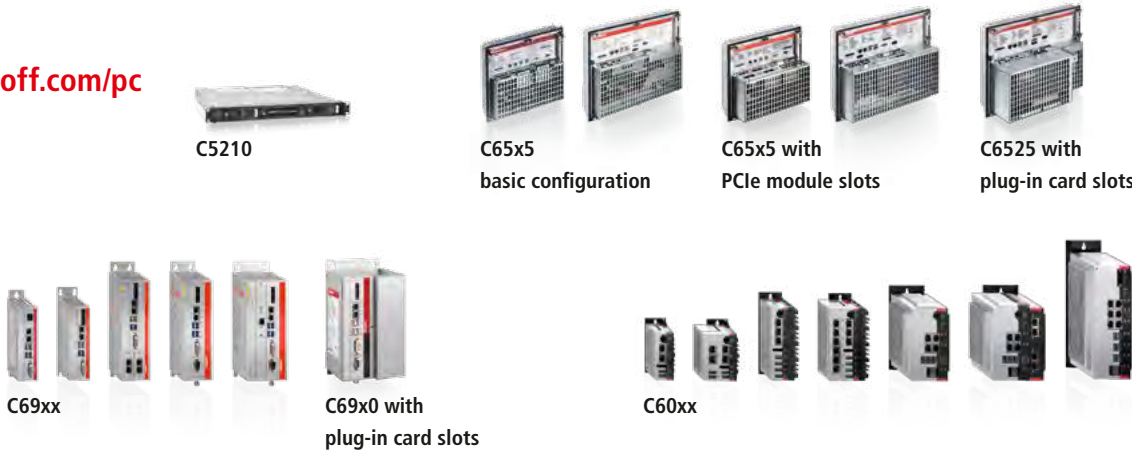
Single-touch built-in Control Panels, front side IP54/65								
	Display	5.7-inch	6.5-inch	7-inch	10.1-inch	12-inch	15-inch	19-inch
	Resolution	640 x 480	640 x 480	800 x 480	1024 x 600	800 x 600	1024 x 768	1280 x 1024
	Format	4:3	4:3	5:3	17:10	4:3	4:3	5:4
	Protect. rating front	IP65	IP65	IP54	IP54	IP65	IP65	IP65
CP69xx – DVI/USB Extended interface*	without keys	CP6907	CP6909	CP6906	CP6900	CP6901	CP6902	CP6903
	function keys		CP6919			CP6911	CP6912	CP6913
	numerical		CP6929			CP6921	CP6922	CP6923
	alphanumeric					CP6931	CP6932/42	CP6933

Single-touch Control Panels, all sides IP65								
	Display	5.7-inch	6.5-inch	7-inch	10.1-inch	12-inch	15-inch	19-inch
	Resolution	640 x 480	640 x 480	800 x 480	1024 x 600	800 x 600	1024 x 768	1280 x 1024
	Format	4:3	4:3	5:3	17:10	4:3	4:3	5:4
CP79xx – DVI/USB Extended interface*	without keys		CP7909			CP7901	CP7902	CP7903
	function keys		CP7919			CP7911	CP7912	CP7913
	numerical		CP7929			CP7921	CP7922	CP7923
	alphanumeric					CP7931	CP7932/42	CP7933
CP790x-14xx – DVI/USB Extended interface*	without keys, stainless steel housing					CP7901-14xx	CP7902-14xx	CP7903-14xx

*For further information on DVI/USB Extended see page 21

PCs

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Control cabinet Industrial PCs with 3½-inch motherboard

	Processor	Intel Atom®	Intel® Celeron®, Intel® Pentium®, Intel® Core™ i3/i5/i7 6 th /7 th generation	Intel® Celeron®, Intel® Pentium®, Intel® Core™ i3/i5/i7 8 th /9 th generation	Intel® Celeron®, Intel® Core™ i3/i5/i7 11 th generation	
C5210, 19-inch slide-in Industrial PCs	1 rack unit		C5210-0030	C5210-0040	C5210-0050	i
C65xx	fanless fanless, RAID		C6515-0060 C6525-0060	C6515-0070 C6525-0070	C6515-0080 C6525-0080	i i
C69xx, compact Industrial PCs, connectors on front	fanless fanless, 1 CFast card slot fanless, 2 PCIe module slots optional plug-in card slots 2 PCIe module slots, optional plug-in card slots	C6905-0010 C6905-0020 C6915-0010 C6915-0020 C6925-0030 C6925-0040				
			C6920-0060	C6920-0070	C6920-0080	i
			C6930-0060	C6930-0070	C6930-0080	i

Control cabinet Industrial PCs with compact industrial motherboard

	Processor	Intel Atom®	Intel® Celeron®, Intel® Core™ i3/i5/i7 8 th generation, series U	Intel® Celeron®, Intel® Pentium®, Intel® Core™ i3/i5/i7 6 th /7 th generation	Intel® Celeron®, Intel® Pentium®, Intel® Core™ i3/i5/i7 8 th /9 th generation	Intel® Celeron®, Intel® Core™ i3/i5/i7 11 th generation	Intel® Celeron®, Intel® Pentium®, Intel® Core™ i3/i5/i7/i9 12 th generation	
C60xx	fanless, without slots optional interfaces and/or an optional 1-second UPS up to 2 M.2 SSDs and/or 2 PCIe com- pact module slots up to 2 M.2 SSDs	C6015-0010 C6015-0020 C6017-0010 C6017-0020 C6027-0000	C6025-0000			C6025-0010		i
						C6027-0010		i
				C6030-0060 C6032-0060	C6030-0070 C6032-0070	C6030-0080 C6032-0080		i i
							C6040-0090	i

IP65 Industrial PCs with compact industrial motherboard

	Processor	Intel Atom®
C70xx, IP65	fanless	C7015-0020

Control cabinet Industrial PCs with ATX motherboard

	Processor	Intel® Celeron®, Intel® Pentium®, Intel® Core™ i3/i5/i7 6 th /7 th generation	Intel® Celeron®, Intel® Pentium®, Intel® Core™ i3/i5/i7 8 th /9 th generation
C5240, 19-inch slide-in Industrial PCs	7 slots, 4 rack units	C5240-0010	C5240-0020
C61xx, connectors on top	7 slots	C6140-0070 C6150-0070	C6140-0080
C62xx, connectors on front	7 slots	C6240-0070 C6250-0080	C6240-0080
C6640/C6650, connectors on top	7 slots 7 slots, 2 removable frames	C6640-0050 C6650-0050	C6640-0060 C6650-0060
C6675, connectors on top	7 slots, 2 removable frames		C6675-0060

Control cabinet industrial server with SSI EEB motherboard

	Processor	2 x Intel® Xeon® Scalable
C6670	6 slots, 2 removable frames	C6670-0010

Customization options for Panel PCs and Control Panels

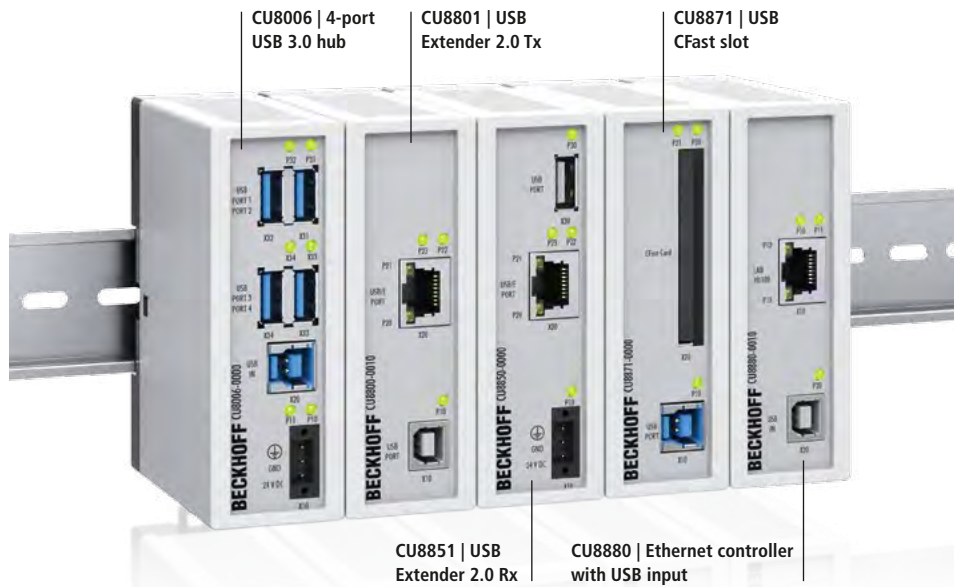
- stainless steel housings
- special membrane keyboards
- integration of electro-mechanical keyboards
- flush-mounted touch screens
- adaptation of membrane colors
- integration of customer logos



Industrial PC accessories

CU8xxx modules

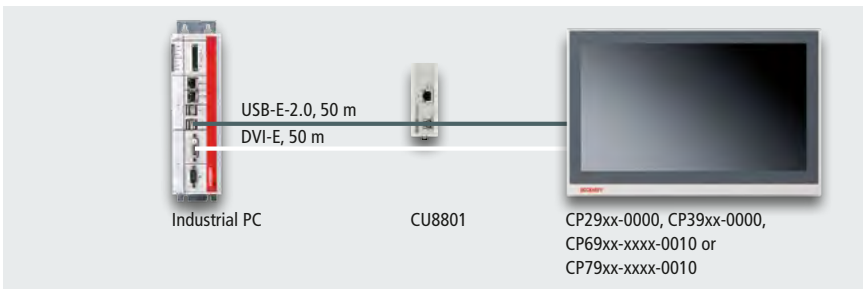
Different modules enable the use of various technologies in the industrial environment. All modules are intended for DIN rail mounting. In addition, there are a variety of uninterruptible power supplies (UPS).



DVI/USB Extended

The DVI/USB Extended technology enables remote panel operation at a distance of up to 50 m from the industrial PC. The DVI graphics signal is directly transmitted from the PC via a DVI-E cable. A signal processor in the Control Panel restores the DVI signal after a distance of 50 m. For the CP29xx-0000, CP39xx-0000, CP69xx-xxxx-0010 and CP79xx-xxxx-0010 Control Panels, the USB signal from the PC is converted into USB Extended 2.0 by the CU8801 USB Extender box, transmitted to the Control Panel via a Cat.5 cable over 50 m max. to be reconverted into USB 2.0 with 480 Mbit/s. A USB hub in the Control Panel enables the connection of two external USB devices such as a keyboard or USB stick, in addition to touch screen and push-button extension.

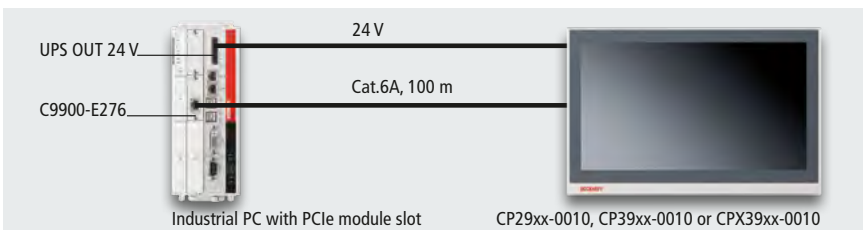
DVI/USB Extended 2.0 for CP29xx-0000, CP39xx-0000, CP69xx-xxxx-0010 or CP79xx-xxxx-0010 via the CU8801 transmitter box



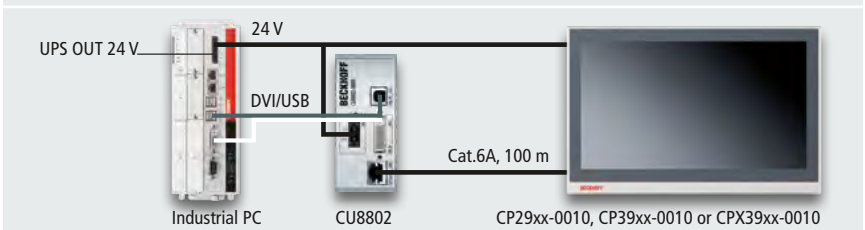
CP-Link 4: The One Cable Display Link

With CP-Link 4 operating panels can be located up to 100 m away from the Industrial PC. The one cable solution can be used to transfer video signals, USB 2.0 and the power supply in a Cat.6A cable, thus reducing cable and installation costs. The CP-Link 4 technology is supported by the Beckhoff multi-touch Control Panel series CP29xx-0010 for installation inside the wall of a control cabinet, CP39xx-0010 for mounting arm installation and CPX39xx-0010 for use in hazardous areas, Zone 2/22.

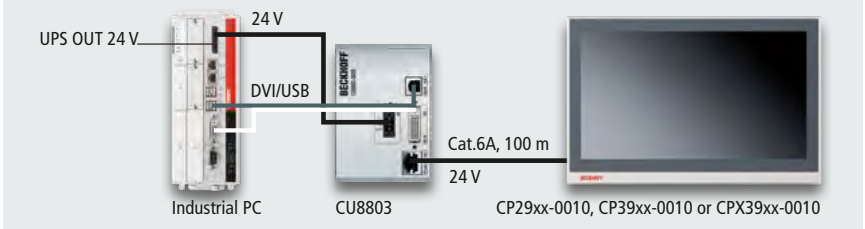
CP-Link 4 – The Two Cable Display Link: via C9900-E276 PCIe module integrated in the PC



CP-Link 4 – The Two Cable Display Link: via CU8802 transmitter box



CP-Link 4 – The One Cable Display Link: DVI, USB and 24 V via CU8803 transmitter box



► www.beckhoff.com/cp-link4