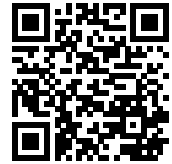


CP27xx-0020 | The fanless multi-touch built-in Panel PC



i Product status: Regular delivery

The CP27xx built-in Panel PC series is characterised by a modern operating concept with multi-touch display as well as an advanced, elegant device design. It is designed for installation in the front of a control cabinet. The CP27xx combine reliable Beckhoff Control Panel design with state-of-the-art Industrial PC technology. The right display size is available for every application. With their highly integrated 3½-inch motherboards, the CP27xx built-in Industrial PCs represent a high-performance platform for machine construction and plant engineering applications that can be used in conjunction with TwinCAT automation software under Windows 7 Professional, Windows 7 Ultimate, Windows Embedded Standard 7, Windows Embedded Compact 7 or with Intel Atom® under Windows 10 IoT Enterprise.

Scalable performance

CP27xx Panel PCs are equipped with Intel® Celeron® ULV 1.4 GHz or with Intel Atom® with up to four cores and have one or two CFast cards. With the on-board RAID controller, two same CFast cards can be mirrored in the CP27xx-0000.

Highest data availability and data security

CP27xx are supplied with a 24 V power supply unit, optionally also with an integrated uninterruptible power supply (UPS). A battery pack can be connected externally and installed on a DIN rail close to the PC.

Accessibility of the components

Data media and the lithium battery of the system clock are accessible from the rear.

Central EtherCAT control

Due to its two independent Ethernet interfaces the CP27xx is ideally suited as a compact central processing unit for an EtherCAT control system. A third independent Ethernet interface is available as an option.

Flexible expansion options

An optional PCIe module slot offers the possibility to extend the PC, e.g. with additional Ethernet interfaces.

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	CP27xx-0020	Options
Device type	Fanless multi-touch built-in Panel PC	
Housing	aluminium housing with glass front	stainless steel housing with glass front at 12.1", 15.6", 18.5" and 21.5" display
Slots for hard disk/flash	2 slots for CFast	
Installation	pull-out clamping levers for fast installation without loose parts	
Protection class	front side IP 65, rear side IP 20	
Operating temperature	0...55 °C	
Display size/resolution	12" 800 x 600, 12.1" 1280 x 800, 15" 1024 x 768, 15.6" 1366 x 768, 18.5" 1366 x 768, 19" 1280 x 1024, 21.5" 1920 x 1080 or 24" 1920 x 1080	
Touch screen	multi-finger touch screen	
Processor	Intel Atom® x5-E3930, 1.3 GHz, 2 cores (TC3: 40)	Intel Atom® x5-E3940, 1.6 GHz, 4 cores (TC3: 50)
Motherboard	3½-inch motherboard for Intel Atom® x5-E39xx	
PCIe/PCI slots	–	1 PCIe module slot
Memory	4 GB DDR3L RAM	up to 8 GB DDR3L RAM ex factory
Ethernet	2 x 100/1000BASE-T on-board	1 additional 100/1000BASE-T
Hard disks/flash	40 GB CFast	up to 160 GB CFast
Interfaces	2 x USB 3.0, 2 x USB 2.0, 1 x DVI	1 x USB in the front
Power supply	24 V DC	UPS

Operating system	-	Windows 10 IoT Enterprise
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Ordering Information

CP27xx-0020	Fanless multi-touch built-in Panel PC
CP2712-0020	12-inch display 800 x 600, multi-finger touch screen
CP2713-0020	12.1-inch display 1280 x 800, multi-finger touch screen
CP2715-0020	15-inch display 1024 x 768, multi-finger touch screen
CP2716-0020	15.6-inch display 1366 x 768, multi-finger touch screen
CP2718-0020	18.5-inch display 1366 x 768, multi-finger touch screen
CP2719-0020	19-inch display 1280 x 1024, multi-finger touch screen
CP2721-0020	21.5-inch display 1920 x 1080, multi-finger touch screen
CP2724-0020	24-inch display 1920 x 1080, multi-finger touch screen

Options

Options	CP27xx-0020
C9900-E268	1-port USB socket inside the front of a CP2xxx without push-button extension, USB-A socket IP 65
C9900-F942	stainless steel front with blue silicone seal for CP2x13-00x0 for horizontal alignment, stainless steel 1.4404, matt ground with grain size 240, instead of standard aluminium front
C9900-F945	stainless steel front with blue silicone seal for CP2x16-00x0 for horizontal alignment, stainless steel 1.4404, matt ground with grain size 240, instead of standard aluminium front
C9900-F946	stainless steel front with blue silicone seal for CP2x18-00x0 for horizontal alignment, stainless steel 1.4404, matt ground with grain size 240, instead of standard aluminium front
C9900-F948	stainless steel front with blue silicone seal for CP2x21-00x0 for horizontal alignment, stainless steel 1.4404, matt ground with grain size 240, instead of standard aluminium front
C9900-C584	processor Intel Atom® x5-E3940, 1.6 GHz, 4 cores (TC3: 50) and memory extension to 8 GB DDR4 RAM instead of Intel Atom® x5-E3930, 1.3 GHz (TC3: 40) and 4 GB DDR4 RAM
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-B518	1 PCIe module slot integrated inside CP27xx, to plug-in Beckhoff PCIe modules, instead of 1 connector bracket to lead out interfaces
C9900-E233	1 serial port RS232 of the motherboard led out at the connection section of a C5210, C65x5, CP2xxx, CP62xx or CP67xx-xxxx-0040/-0050
C9900-E234	2 USB ports of the motherboard led out at the connection section of a C5210, C65x5, CP2xxx, CP62xx or CP67xx-xxxx-0040/-0050
C9900-E240	Serial port COM2 RS232, optically linked, overload protection, D-sub 9-pin connector.

C9900-E241	Serial port COM2 RS485, optically linked, overload protection, D-sub 9-pin connector. Configuration as an end point without echo: echo off, auto send on, always send off, auto receive on, always receive off, termination on
C9900-E242	Serial port COM2 RS422, optically linked, overload protection, D-sub 9-pin connector. Configuration as a full duplex end point: echo on, auto send off, always send on, auto receive off, always receive on, termination on
C9900-H583	40 GB CFast card, 3D flash, extended temperature range
C9900-H587	80 GB CFast card, 3D flash, extended temperature range
C9900-H624	160 GB CFast card, 3D flash, extended temperature range
C9900-H620	80 GB CFast card, 3D flash, extended temperature range, instead of 40 GB CFast card, 3D flash
C9900-H628	160 GB CFast card, 3D flash, extended temperature range, instead of 40 GB CFast card, 3D flash
C9900-U209	uninterruptible power supply UPS, integrated into the 24 V power supply, without battery
C9900-U330	battery pack for PCs with 24 V power supply and integrated UPS C9900-P209 or C9900-U209, external, for DIN rail mounting, 3.4 Ah, operating temperature 0...50 °C, contains two rechargeable, sealed lead batteries VRLA-AGM
C9900-U332-0010	battery pack for 24 V power supply with integrated UPS C9900-U209 at PCs with Intel Atom® or Celeron® ULV 827E 1.4 GHz processor, external, for DIN rail mounting, 1.2 Ah, operating temperature 0...50 °C, contains two rechargeable, sealed lead batteries VRLA-AGM
C9900-S490	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, German, for Industrial PCs with Intel Atom® E38xx and Intel Atom® x5-E39xx
C9900-S491	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, English, for Industrial PCs with Intel Atom® E38xx and Intel Atom® x5-E39xx

CP27xx-0020	Options for CP27xx with 1 module slot C9900-B518
FC9062	Gigabit Ethernet PCIe module for PCs with Beckhoff PCIe module slots, 2-channel, PCI Express x1 bus
C9900-E301	RS232 PCIe module for PCs with Beckhoff PCIe module slots, 2-channel, optically linked, 2 sockets ix industrial™ type B. Requires 2 adapter cables C9900-K920 ix industrial™ type B to D-Sub, 9 pin.
C9900-K920	adapter cable ix Industrial® type B to D-sub, 9-pin, for RS232 PCIe module C9900-E301 or C9900-E306, length 45 cm
C9900-E309	RS485 PCIe module for PCs with Beckhoff PCIe module slots, 2-channel, optically linked, 2 sockets ix industrial™ type B. Configuration as an end point without echo: echo off, auto send on, always send off, auto receive on, always receive off, termination on. Requires 2 adapter cables C9900-K922 ix industrial™ type B to D-sub, 9 pin.
C9900-E310	RS422 PCIe module for PCs with Beckhoff PCIe module slots, 2-channel, optically linked, 2 sockets ix industrial™ type B. Configuration as a full duplex end point: echo on, auto send off, always send on, auto receive off, always receive on, termination on. Requires 2 adapter cables C9900-K922 ix industrial™ type B to D-sub, 9 pin.
C9900-K922	adapter cable ix industrial™ type B to D-sub, 9 pin, for RS422/RS485 PCIe module C9900-E309, C9900-E310, C9900-E312 or C9900-E313, length 45 cm

C9900-E277

- USB 3.0 PCIe module
- 2-port USB 3.0 interfaces
 - USB transfer rate up to 5 Gbit/s for USB 3.0
 - compatible to all USB standards
 - delivers up to 1 A supply current at each USB port