



CP37xx-1600-0020 | Multi-touch Panel PC



i Product status: Regular delivery

Multi-touch can be used directly in the field with the CP37xx-1600 Panel PC series. The devices in robust aluminum housing feature complete IP 65 protection and are designed for mounting arm installation. Equipped with Intel Atom® processors with up to four cores, the Panel PCs offer high computing power. There is a choice of six different multi-touch TFT displays from 15 to 24-inch, in the formats 4:3, 5:4, and widescreen 16:9. Cooling is entirely passive and takes place via the external panel of the closed housing. The PC can be operated at an ambient temperature of up to 45°C.

Direct mounting arm installation

In parallel with the CP37xx device series with integrated mounting arm adapter, the CP37xx-1600 series offers the option of freely selecting a mounting arm adapter. The optionally available C9900-M763 mounting arm adapter, which can be mounted from top to bottom by the customer, is fastened with four M6 screws to the 100 x 100 mm mounting face. Like the Beckhoff Control Panels, it is thus possible to adapt to a 48 mm mounting arm system. Without the rotating and tilting adapter, the multi-touch Panel PC can also be mounted flexibly in the connection area. On the underside of the panel there are three threaded holes to allow the mounting/retrofitting of mechanical extensions such as keyboard shelves or a handle.

Scalable performance

The up to six connections of the Industrial PC are arranged with IP 65 connectors in the connection compartment, where they are easily accessible. Prefabricated cables in various lengths are available for all connections. The CP37xx-1600 is already equipped ex factory with a USB 3.0 socket on the side panel.

Accessibility of the components

The Panel PCs from the CP37xx-1600 series have a hard disk, SSD or CFAST card.

The data carriers and the lithium battery for the system clock are accessible from the housing side under a cover.

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	CP37xx-1600-0020	Options
Device type	Multi-touch Panel PC	
Housing	aluminium housing for mounting arm installation	
Mounting arm adapter	4 M6 threaded holes with a distance of 100 x 100 mm for connection to a mounting arm system	rotatable and tiltable mounting arm adapter for mounting arm systems with 48 mm tube from top or from bottom
Wiring area	for up to 6 IP 65 connectors, 4 of these are free	
Slots for hard disk/flash	1 slot for CFast	2 slots for CFast or 1 slot for 2½-inch hard disk/SSD
Cooling	passive	
Free space for air circulation	20 cm (7.9") around the PC required	
Extensions	3 M5 threaded holes on the underside of the Control Panel for mounting mechanical extensions	toolboard or handle
Protection class	IP 65	
Operating temperature	0...45 °C	
Display size/resolution	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	
Memory	4 GB DDR4 RAM	up to 8 GB DDR4 RAM ex factory
Ethernet	2 x 100/1000BASE-T on-board, one of these is led out	1 additional 100/1000BASE-T
Hard disks/flash	40 GB CFast	up to 160 GB CFast, hard disk, SSD
Interfaces	1 x USB 3.0 with screw-opn cap IP 65 in the side wall, 1 x M23 x socket for power supply, 1 x Harting Push Pull Ethernet 100/1000BASE-T	

Power supply	24 V DC	UPS
Operating system	–	Windows 10 IoT Enterprise

Ordering Information

CP37xx-1600-0020	Multi-touch Panel PCs
CP3715-1600-0020	15-inch display 1024 x 768, multi-finger touch screen
CP3716-1600-0020	15.6-inch display 1366 x 768, multi-finger touch screen
CP3718-1600-0020	18.5-inch display 1366 x 768, multi-finger touch screen
CP3719-1600-0020	19-inch display 1280 x 1024, multi-finger touch screen
CP3721-1600-0020	21.5-inch display 1920 x 1080, multi-finger touch screen
CP3724-1600-0020	24-inch display 1920 x 1080, multi-finger touch screen

Options

Options	CP37xx-1600-0020
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-M761	Rotatable and tiltable mounting arm adapter for Panel PCs CP32xx-16xx, CP37xx-1xxx, CPX37xx or CP39xx-0010 with Option C9900-M338. Suitable for Rittal and Rolec mounting arm systems with 48 mm tube, wiring through the mounting arm. For mounting four M6 tapped holes at a distance of 100 x 100 mm and 70 x 130 mm. Vertical orientation can be changed by the customer. The tilt can be locked with a clamping lever. Not mounted at the factory.
C9900-M763	Rotatable and tiltable mounting arm adapter for Panel PCs CP32xx-16xx, CP37xx-1xxx, CPX37xx or CP39xx-0010 with Option C9900-M338. Suitable for Rittal and Rolec mounting arm systems with 48 mm tube, wiring through the mounting arm. For mounting four M6 tapped holes at a distance of 100 x 100 mm and 70 x 130 mm. Vertical orientation can be changed by the customer. Not mounted at the factory.
C9900-B416	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 IP 65 Harting push-pull Ethernet built-in socket 100/1000BASE-T connector inside the connector bracket at the connection section
C9900-E185	IP 65 connector in the wiring area of a CP32xx, CP37xx, CPX37xx or CP72xx for the second on-board Ethernet adapter, Harting push-pull Ethernet socket
C9900-E186	IP 65 connector M12 in the wiring area of a CP32xx, CP37xx or CP72xx for one serial interface RS232
C9900-E248	IP 65 connector M12 in the wiring area of a CP32xx, CP37xx or CP72xx for one serial interface RS422, optically linked, overload protection. Configuration as a full duplex end point: echo on, auto send off, always send on, auto receive off, always receive on, termination on
C9900-E261	IP 65 connector M12 in the wiring area of a CP32xx, CP37xx or CP72xx for one serial interface RS485, optically linked, overload protection. Configuration as an end point without echo: echo off, auto send on, always send off, auto receive on, always receive off, termination on
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-D195	2 slots for CFast cards, instead of 1 slot for one CFast card
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-D198	1 slot for one 2½ inch hard disk or SSD, instead of 1 slot for one CFast card
C9900-H244	hard disk, 2½-inch, 320 GB, instead of 40 GB CFast card, less price
C9900-H765	solid-state disk SSD, 3D flash, 2½-inch, 240 GB, instead of 40 GB CFast card
C9900-H766	solid-state disk SSD, 3D flash, 2½-inch, 480 GB, instead of 40 GB CFast card
C9900-H767	solid-state disk SSD, 3D flash, 2½-inch, 960 GB, instead of 40 GB CFast card
C9900-U209	uninterruptible power supply UPS, integrated into the 24 V power supply, without battery

Options	USB sockets
C9900-E283	IP 65 connector in the wiring area of a CP32xx, CP37xx or CP72xx for a USB 3.0 port, Harting push-pull USB 3.0 socket
C9900-E190	USB-A in the wiring area of a CP32xx, CP37xx or CP72xx for one USB 2.0 port, including covering cap IP 65
C9900-E304	USB A socket in the wiring area of a CP32xx or CP37xx for one USB 3.0 port, including covering cap IP 65

Accessories

Accessories	
C9900-K271	power supply cable IP 65 for CP32xx, CP37xx or CP72xx, length 5 m, assembled, M23 connector, screw type, 8 wires, second end open
C9900-K272	power supply cable IP 65 for CP32xx, CP37xx or CP72xx, length 10 m, assembled, M23 connector, screw type, 8 wires, second end open
C9900-K275	power supply cable IP 65 for CP32xx and CP37xx or CP72xx, length 5 m, 12 wires: 24 V plus, 24 V minus, battery plus and battery minus each 2 x 1 mm ² for low voltage drop, assembled, M23 connector, screw type, second end open
C9900-K276	power supply cable IP 65 for CP32xx, CP37xx or CP72xx, length 10 m, 12 wires: 24 V plus, 24 V minus, battery plus and battery minus each 2 x 1 mm ² for low voltage drop, assembled, M23 connector, screw type, second end open
C9900-K277	power supply cable IP 65 for CP32xx, CP37xx or CP72xx, length 20 m, 12 wires: 24 V plus, 24 V minus, battery plus and battery minus each 2 x 1 mm ² for low voltage drop, assembled, M23 connector, screw type, second end open
C9900-K281	network cable for CP32xx, CP37xx, CPX37xx and CP72xx, length 3 m, assembled, Harting push-pull Ethernet connector IP 65, second end RJ45, IP 20
C9900-K282	network cable for CP32xx, CP37xx, CPX37xx and CP72xx, length 5 m, assembled, Harting push-pull Ethernet connector IP 65, second end RJ45, IP 20
C9900-K283	network cable for CP32xx, CP37xx, CPX37xx and CP72xx, length 10 m, assembled, Harting push-pull Ethernet connector IP 65, second end RJ45, IP 20

C9900-K284	network cable for CP32xx, CP37xx, CPX37xx and CP72xx, length 15 m, assembled, Harting push-pull Ethernet connector IP 65, second end RJ45, IP 20
C9900-K285	network cable for CP32xx, CP37xx, CPX37xx and CP72xx, length 20 m, assembled, Harting push-pull Ethernet connector IP 65, second end RJ45, IP 20
C9900-K286	network cable for CP32xx, CP37xx, CPX37xx and CP72xx, length 30 m, assembled, Harting push-pull Ethernet connector IP 65, second end RJ45, IP 20
C9900-K287	network cable for CP32xx, CP37xx, CPX37xx and CP72xx, length 40 m, assembled, Harting push-pull Ethernet connector IP 65, second end RJ45, IP 20
C9900-K288	network cable for CP32xx, CP37xx, CPX37xx and CP72xx, length 50 m, assembled, Harting push-pull Ethernet connector IP 65, second end RJ45, IP 20
C9900-K295	serial interface cable RS232 for CP32xx, CP37xx or CP72xx, length 3 m, assembled, M12 connector IP 65, screw type, 12-pin, second end D-sub, 9-pin plug
C9900-K296	serial interface cable RS232 for CP32xx, CP37xx or CP72xx, length 5 m, assembled, M12 connector IP 65, screw type, 12-pin, second end D-sub, 9-pin plug
C9900-K297	serial interface cable RS232 for CP32xx, CP37xx or CP72xx, length 10 m, assembled, M12 connector IP 65, screw type, 12-pin, second end D-sub, 9-pin plug
C9900-K306	USB 3.0 cable for CP32xx, CP37xx or CP72xx, length 3 m, assembled, Harting push-pull USB 3.0 connector IP 65, second end USB-B connector IP 20