# CP37xx-1600-0020 | Multi-touch Panel PC



**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 | |

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

## Ordering Information

| CP37xx-1600-0020 | Multi-touch Panel PCs |
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| **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 |
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| **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 |

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| **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 |
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| **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 | |
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| **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 |

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| **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 |