



CP37xx-0010 | Multi-touch Panel PC



i Product status: Regular delivery

With the CP37xx series, a Panel PC with multi-touch can be used directly in the field. The devices in a robust aluminium housing feature complete IP 65 protection and are designed for mounting arm installation. The Panel PCs offer high computing power with Intel Atom® processors with up to four cores.

A choice of seven different multi-touch TFT displays in sizes between 12-inch and 24-inch in 4:3, 5:4 or widescreen formats are available. Cooling is achieved by means of cooling fins on the outer wall as well as fans inside the closed housing. The operating temperature range is 0 to 45 °C.

Direct mounting arm installation

The Panel PC features an integrated rotatable and tiltable mounting arm adapter for a 48 mm diameter mounting arm tube. There is a choice of attaching the mounting arm from above or below. The connecting cables are laid through the mounting arm.

Scalable performance

The Industrial PC connections (up to four) with IP 65 connectors are positioned in the large wiring space and are easily accessible. The wiring area can be opened easily without dismounting the device from the mounting arm, offering fast access to the IP 65 connectors for power supply, Ethernet and optional USB or RS232. Prefabricated cables in various lengths are available for all connections.

Highest data availability and data security

The C37xx series Panel PCs are supplied with a 24 V power supply unit, optionally with integrated uninterruptible power supply (UPS). A battery pack can be connected externally and installed on a DIN rail in the control cabinet.

Accessibility of the components

The CP37xx Panel PCs are equipped with one or two CFast cards. The data media and the lithium battery of the system clock are accessible from the rear under the 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-0010	Options
Device type	Multi-touch Panel PC	
Housing	aluminium housing for mounting arm installation	
Mounting arm adapter	rotatable and tiltable mounting arm adapter for mounting arm systems with 48 mm tube from top or from bottom	
Wiring area	for up to 4 IP 65 connectors, 2 of these are free	
Slots for hard disk/flash	2 slots for CFast	
Cooling	passive through heat sink structure, internal fan for equal heat distribution to all housing walls	
Free space for air circulation	20 cm (7.9") around the PC required	
Protection class	IP 65	
Operating temperature	0...45 °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® E3815, 1.46 GHz, 1 core (TC3: 40)	up to Intel Atom® E3845 1.91 GHz, 4 cores (TC3: 50)
Motherboard	3½-inch motherboard for Intel Atom® E38xx	
PCIe/PCI slots	–	1 PCIe module slot
Memory	2 GB DDR3L RAM	up to 8 GB DDR3L 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	20 GB CFast	up to 160 GB CFast

Interfaces	1 x Ethernet 100/1000BASE-T Harting PushPull	
Power supply	24 V DC	UPS
Operating system	Windows Embedded Compact 7, English	Windows 7, Windows Embedded Standard 7, Windows 10 IoT Enterprise

Ordering Information

CP37xx-0010	Multi-touch Panel PCs
CP3712-0010	12-inch display 800 x 600, multi-finger touch screen
CP3713-0010	12.1-inch display 1280 x 800, multi-finger touch screen
CP3715-0010	15-inch display 1024 x 768, multi-finger touch screen
CP3716-0010	15.6-inch display 1366 x 768, multi-finger touch screen
CP3718-0010	18.5-inch display 1366 x 768, multi-finger touch screen
CP3719-0010	19-inch display 1280 x 1024, multi-finger touch screen
CP3721-0010	21.5-inch display 1920 x 1080, multi-finger touch screen
CP3724-0010	24-inch display 1920 x 1080, multi-finger touch screen

Options

Options	CP37xx-0010
C9900-C572	processor Intel Atom® E3827, 1.75 GHz, 2 cores (TC3: 40), instead of Intel Atom® E3815, 1.46 GHz (TC3: 40). With Windows Embedded Compact 7 only one core is supported. Multicore support is available with Windows Embedded Standard 7, Windows 7 Professional, Windows 7 Ultimate and Windows 10 IoT Enterprise.
C9900-C573	processor Intel Atom® E3845, 1.91 GHz, 4 cores (TC3: 50), instead of Intel Atom® E3815, 1.46 GHz (TC3: 40). With Windows Embedded Compact 7 only one core is supported. Multicore support is available with Windows Embedded Standard 7, Windows 7 Professional, Windows 7 Ultimate and Windows 10 IoT Enterprise.
C9900-R257	memory extension to 4 GB DDR3L RAM, instead of 2 GB, requires a 64 bit operating system or only 3 GB are addressable
C9900-R258	memory extension to 8 GB DDR3L RAM, instead of 2 GB, requires a 64 bit operating system
C9900-M184	mounting arm adapter for Panel PC CP32xx or CP37xx, for Rittal and Roolec mounting arm systems with 48 mm tube from bottom instead of from top
C9900-B519	1 PCIe module slot integrated inside CP32xx or CP37xx, to plug-in Beckhoff PCIe modules
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-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-H586	40 GB CFast card, 3D flash, extended temperature range, instead of 20 GB CFast card
C9900-H590	80 GB CFast card, 3D flash, extended temperature range, instead of 20 GB CFast card
C9900-H627	160 GB CFast card, 3D flash, extended temperature range, instead of 20 GB CFast card
C9900-U209	uninterruptible power supply UPS, integrated into the 24 V power supply, without battery
C9900-S706	TwinCAT 2 PLC runtime for Windows Embedded Compact 7
C9900-S707	TwinCAT 2 NC PTP runtime for Windows Embedded Compact 7
C9900-S708	TwinCAT 2 NC I runtime for Windows Embedded Compact 7

Options	To connect a keyboard to the PC, e.g. at commissioning, one of the following USB sockets is required:
C9900-E279	1-port USB 3.0 connector with IP 65 screw cap in the sidewall of the CP32xx or CP37xx from version -0010
C9900-E281	1-port USB 2.0 connector with IP 65 screw cap in the sidewall of the CP32xx-0000 or CP37xx-0010 PC housing
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-E187	IP 65 connector M12 in the wiring area of a CP32xx, CP37xx or CP72xx for one USB 2.0 port
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-K291	USB 2.0 cable for CP32xx, CP37xx or CP72xx, length 3 m, assembled, M12 connector IP 65, screw type, 4-pin, second end USB B connector
C9900-K292	USB 2.0 cable for CP32xx, CP37xx or CP72xx, length 5 m, assembled, M12 connector IP 65, screw type, 4-pin, second end USB B connector
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
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