



CP32xx-1600-0020 | Multi-touch Panel PC



i Product status: Product announcement | estimated market release July 2021

Multi-touch can be used directly in the field with the CP32xx-1600 Panel PC series. The devices in robust aluminum housing feature complete IP 65 protection and are designed for mounting arm installation. The Panel PCs offer maximum computing power with processors of the latest generation, such as Intel® Celeron®, Pentium® or Core™ i3/i5/i7. There is a choice of five different multi-touch TFT displays from 15.6 to 24-inch, in the formats 5:4 and widescreen 16:9. Cooling is achieved by means of cooling fins on the outer wall as well as fans inside 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 CP32xx device series with ex-work integrated mounting arm adapter, the CP32xx-1600 series offers the option of freely selecting a mounting arm adapter. For this purpose, M6 screws are available in a 100 x 100 mm and 70 x 130 mm mounting face. The optional rotatable and tiltable mounting arm adapter C9900-M763 can be ordered. The customer can mount it from top or bottom. Like the Beckhoff Control Panels, it is thus possible to adapt to a 48 mm mounting arm system. 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. A USB 3.0 port at the bottom side is already installed ex-work.

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	CP32xx-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 and 4 M6 threaded holes with a distance of 70 x 130 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 2½-inch hard disk/SSD, 1 slot for CFast	2 slots for CFast or 2 slots for 2½-inch hard disk/SSD
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	
Extensions	3 M5 threaded holes on the underside of the Control Panel for mounting mechanical extensions	toolboard or handle
Display size/resolution	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® Celeron® G3900TE 2.3 GHz, 2 cores (TC3: 50)	up to Intel® Core™ i7 7700(T) 2.9 GHz, 4 cores (TC3: 80)
Motherboard	3½-inch motherboard for 6th/7th generation Intel® Celeron®, Pentium®, Core™ i3/i5/i7	
Memory	4 GB DDR4 RAM	up to 32 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	hard disk, 2½-inch, 320 GB	SSD, CFast
Interfaces	1 x USB 3.0 with screw-opn cap IP 65 at the bottom, 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 7, Windows Embedded Standard 7, Windows 10 IoT Enterprise, Windows Server 2016
------------------	---	--

Ordering Information

CP32xx-1600-0020	Multi-touch Panel PCs
CP3216-1600-0020	15.6-inch display 1366 x 768, multi-finger touch screen
CP3218-1600-0020	18.5-inch display 1366 x 768, multi-finger touch screen
CP3219-1600-0020	19-inch display 1280 x 1024, multi-finger touch screen
CP3221-1600-0020	21.5-inch display 1920 x 1080, multi-finger touch screen
CP3224-1600-0020	24-inch display 1920 x 1080, multi-finger touch screen

Options

Options	CP32xx-1600-0020
C9900-C607	processor 6th generation Intel® Pentium® G4400TE, 2.4 GHz, 2 cores (TC3: 50), instead of Intel® Celeron® G3900TE 2.3 GHz (TC3: 50)
C9900-C608	processor 6th generation Intel® Core™ i3-6100TE, 2.7 GHz, 2 cores (TC3: 60), instead of Intel® Celeron® G3900TE 2.3 GHz (TC3: 50)
C9900-C618	processor 7th generation Intel® Core™ i3-7101(T)E, 3.4 GHz, 2 cores (TC3: 60), requires Windows 10, 64 bit or Windows Server 2016, instead of Intel® Celeron® G3900TE 2.3 GHz (TC3: 50)
C9900-C609	processor 6th generation Intel® Core™ i5-6500TE, 2.3 GHz, 4 cores (TC3: 70), instead of Intel® Celeron® G3900TE 2.3 GHz (TC3: 50)
C9900-C619	processor 7th generation Intel® Core™ i5-7500(T), 2.7 GHz, 4 cores (TC3: 70), requires Windows 10, 64 bit or Windows Server 2016, instead of Intel® Celeron® G3900TE 2.3 GHz (TC3: 50)
C9900-C610	processor 6th generation Intel® Core™ i7-6700TE, 2.4 GHz, 4 cores (TC3: 80), instead of Intel® Celeron® G3900TE 2.3 GHz (TC3: 50)
C9900-C620	processor 7th generation Intel® Core™ i7-7700(T), 2.9 GHz, 4 cores (TC3: 80), requires Windows 10, 64 bit or Windows Server 2016, instead of Intel® Celeron® G3900TE 2.3 GHz (TC3: 50)
C9900-R270	memory extension to 8 GB DDR4 RAM, instead of 4 GB
C9900-R271	memory extension to 16 GB DDR4 RAM, instead of 4 GB
C9900-R272	memory extension to 32 GB DDR4 RAM, instead of 4 GB
C9900-B519	1 PCIe module slot integrated inside CP32xx or CP37xx, to plug-in Beckhoff PCIe modules
C9900-E282	2 IP 65 connectors in the wiring area of a CP32xx, led out with PCIe module FC9062. 2 gigabit Ethernet interfaces. Harting push-pull Ethernet sockets. Requires a PCIe module slot C9900-B519
C9900-M184	mounting arm adapter for Panel PC CP32xx or CP37xx, for Rittal and Rolec mounting arm systems with 48 mm tube from bottom instead of from top

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-M419	Toolboard for keyboard or tools, mounted under a Control Panel or Panel PC CP3xxx, without integrated USB socket IP 65 at the rear side, can be ordered only together with the Control Panel or Panel PC.
C9900-M361	Handle, length: 386 mm, aluminum, mounted under a Control Panel or Panel PC CP3xxx, can be ordered only together with the Control Panel or Panel PC.
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-D191	PC with 2 slots for 2½-inch hard disks or SSDs, instead of 1 slot for a hard disk or SSD and 1 slot for CFast
C9900-H145	additional hard disk, 2½-inch, 320 GB
C9900-H749	solid-state disk SSD, 3D flash, 2½-inch, 240 GB
C9900-H745	solid-state disk SSD, 3D flash, 2½-inch, 480 GB
C9900-H759	solid-state disk SSD, 3D flash, 2½-inch, 960 GB
C9900-H750	solid-state disk SSD, 3D flash, 2½-inch, 240 GB, instead of 2½-inch hard disk
C9900-H746	solid-state disk SSD, 3D flash, 2½-inch, 480 GB, instead of 2½-inch hard disk
C9900-H760	solid-state disk SSD, 3D flash, 2½-inch, 960 GB, instead of 2½-inch hard disk
C9900-D190	2 slots for CFast cards, instead of 1 slot for a 2½-inch hard disk or SSD and 1 slot for CFast
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-H584	40 GB CFast card, 3D flash, extended temperature range, instead of 2½-inch hard disk
C9900-H588	80 GB CFast card, 3D flash, extended temperature range, instead of 2½-inch hard disk
C9900-H625	160 GB CFast card, 3D flash, extended temperature range, instead of 2½-inch hard disk
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
Options	
C9900-E326	USB sockets
C9900-E283	1-port USB 3.0 connector with IP 65 screw cap at the bottom of the CP32xx-16xx
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-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