



**Installation and Operating instructions for**  
**C6030-0060**  
**Ultra compact Industrial PC**

**Version: 1.1**  
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**BECKHOFF**



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# 1 Foreword

## 1.1 Notes on the Documentation

This description is only intended for the use of trained specialists in control and automation engineering who are familiar with the applicable national standards. It is essential that the following notes and explanations are followed when installing and commissioning these components.

The responsible staff must ensure that the application or use of the products described satisfy all the requirements for safety, including all the relevant laws, regulations, guidelines and standards.

### 1.1.1 Liability Conditions

The documentation has been prepared with care. The products described are, however, constantly under development. For that reason the documentation is not in every case checked for consistency with performance data, standards or other characteristics. In the event that it contains technical or editorial errors, we retain the right to make alterations at any time and without warning. No claims for the modification of products that have already been supplied may be made on the basis of the data, diagrams and descriptions in this documentation.

All pictures shown in the documentation are exemplary. Illustrated configurations can differ from standard.

### 1.1.2 Trademarks

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Other designations used in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owners.

### 1.1.3 Patent Pending

The EtherCAT Technology is covered, including but not limited to the following patent applications and patents: EP1590927, EP1789857, DE102004044764, DE102007017835 with corresponding applications or registrations in various other countries.

The TwinCAT Technology is covered, including but not limited to the following patent applications and patents: EP0851348, US6167425 with corresponding applications or registrations in various other countries.

### 1.1.4 Copyright

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### 1.1.5 State at Delivery






All the components are supplied in particular hardware and software configurations appropriate for the application. Modifications to hardware or software configurations other than those described in the documentation are not permitted, and nullify the liability of Beckhoff Automation GmbH & Co. KG.

### 1.1.6 Delivery conditions

In addition, the general delivery conditions of the company Beckhoff Automation GmbH & Co. KG apply.


## 1.2 Description of safety symbols

The following safety symbols are used in this operating manual. They are intended to alert the reader to the associated safety instructions.

 <b>DANGER</b>	<p><b>Acute risk of injury!</b></p> <p>If you <b>do not</b> adhere the safety advise adjoining this symbol, there is immediate danger to life and health of individuals!</p>
 <b>WARNING</b>	<p><b>Risk of injury!</b></p> <p>If you <b>do not</b> adhere the safety advise adjoining this symbol, there is danger to life and health of individuals!</p>
 <b>CAUTION</b>	<p><b>Hazard to individuals!</b></p> <p>If you <b>do not</b> adhere the safety advise adjoining this symbol, there is obvious hazard to individuals!</p>
 <b>Attention</b>	<p><b>Hazard to devices and environment</b></p> <p>If you <b>do not</b> adhere the notice adjoining this symbol, there is obvious hazard to materials and environment.</p>
 <b>Note</b>	<p><b>Note or pointer</b></p> <p>This symbol indicates information that contributes to better understanding.</p>


## 1.3 Basic safety measures

Before the Industrial PC is switched off, software that is running must be properly closed. Otherwise it is possible that data on the storage medium is lost. Please read the section [Switching the Industrial PC on and off](#).

 <b>Attention</b>	<b>Switch off all parts of the equipment, then uncouple the fieldbus</b>  Before opening the housing, and whenever the Industrial PC is not being used for control purposes (such as during functional checks after a repair), all parts of the equipment must first be switched off, after which the Industrial PC is to be disconnected from the equipment.
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Pulling out the fieldbus connection plug uncouples the PC (optional).  
Items of equipment that have been switched off must be secured against being switched on again.

The Industrial PC's power supply unit must be supplied with 24 V<sub>DC</sub>.

 <b>Attention</b>	<b>Do not exchange any parts when under power</b>  When components are being fitted or removed, the supply voltage must be switched off.  Fitting work on the Industrial PC can result in damage: <ul style="list-style-type: none"><li>• if metal objects such as screws or tools fall onto operating circuit boards.</li><li>• if connecting cables internal to the PC are removed or inserted during operation.</li><li>• if plug-in cards are removed or inserted when the PC is switched on.</li></ul>
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## 1.4 Operator's obligation to exercise diligence

The operator must ensure that

- the product is only used as intended (see chapter [Product Description](#))
- the product is in a sound condition and in working order during operation
- the product is operated, maintained and repaired only by suitably qualified and authorized personnel
- the personnel is instructed regularly about relevant occupational safety and environmental protection aspects, and is familiar with the operating manual and in particular the safety notes contained herein
- the operation manual is in good condition and complete, and always available for reference at the location of the product.



**Attention**

### **Only trained persons may open the Industrial PC housing**

The operator is responsible for ensuring that only trained electrical staff opens the housing of the Industrial PC.

### 1.4.1 National regulations

Depending on the type of machine and plant in which the Industrial PC is used, national regulations governing the controllers of such machines will apply, and must be observed by the operator. These regulations cover, amongst other things, the intervals between inspections of the controller. The operator must initiate such inspections in good time.

### 1.4.2 Procedure in the event of a fault

In the event of faults at the Industrial PC, the list in the section [Troubleshooting](#) can be used to determine the measures to be taken.

### 1.4.3 Operator requirements

Anyone who uses the Industrial PC must have read these operating instructions and must be familiar with all the functions of the software installed on the Industrial PC to which he has access.



## 2 Product Description

### 2.1 Product overview



#### C6030-0060 | Ultra compact Industrial PC

Motivated by the success of the C6015, particularly in the area of IoT and Industrie 4.0 applications, Beckhoff has expanded its portfolio of ultra-compact control cabinet Industrial PCs with the addition of the C6030. Through consistent integration of the Intel® Core™ i-series processors of the sixth and seventh Generation, the C6030 is directly advancing into the field of highly complex and performance-hungry applications. Whether it is extensive axis control or demanding HMI applications, extremely short cycle times or large-volume data handling, with processing power ranging up to Core™ i7 CPUs with 4 cores of 3.6 GHz each, the device is able to accommodate almost any automation and visualisation task. This level of computing power in such a compact form factor remains currently unrivalled in the industrial environment.

Both the new ultra-compact motherboard and the housing, which is made of die-cast zinc and aluminium, have been newly developed in line with the high standards Beckhoff is known for, such as industrial suitability, manufacturing Made in Germany, reliability and premium look-and-feel. With integrated multi-core support, the C6030 can be used simultaneously for high-performance automation, visualisation and communication. Its flexible mounting options with virtually free orientation of the PC's position allow a wide range of installation scenarios even in the most confined spaces.

Through the use of an extremely durable and speed controlled fan, the C6030 is suitable for a temperature range of up to +55 °C, depending on the CPU. With a size of only 129 x 133 x 76 mm, it is twice as compact as the previously smallest C6930 IPCs. In addition, the C6030 scores points with price savings, making it the most cost-effective Core™ i-series PC offered by Beckhoff to date.

Equipped with a storage capacity of 40 GB M.2-SSD, 3D Flash, it is fully functional in its basic configuration. Options include Windows 7 or Windows 10 operating systems and a second M.2 SSD in a RAID network. With a choice of 8 different CPU types, the C6030 can be perfectly matched to individual application requirements. TwinCAT 3, the latest version of the Beckhoff automation software suite

developed especially for multi-core processors, can use the two- and four-core processors of this Industrial PC generation in the same way as the predecessor TwinCAT 2 with its single-core support. The C6030-0060 Industrial PC revolutionises the already extremely successful C69xx series Industrial PCs for control cabinet installation and adds a more powerful new version to the ultra-compact C6015 Industrial PC.

The Industrial PC offers the following benefits:

- industrial PC for space-saving control cabinet installation
- mounting plate on the rear wall for the free alignment of the connecting area
- all connectors on the same level
- aluminium zinc die-cast housing
- Status LEDs
- lithium battery easily accessible under the side cover
- 2 slots for M.2 SSDs easily accessible under the side cover
- speed controlled fan with double ball bearings, exchangeable
- protection class IP20
- operating temperature 0...55 °C
- compact dimensions (W x H x D) 129 x 133 x 76 mm (5.2" x 5.2" x 2.6") without mounting plate.

The speed monitoring function of the fan will be available as of motherboard revision CB6464.G2 of the C6030-0060, whose market launch is planned for Q2 2019.

## 2.2 Appropriate Use

The C6030-0060 is a Industrial PC for space-saving control cabinet installation.



**Danger**

### **Risk of explosion!**

The Industrial PC must not be used where there is a risk of explosion.

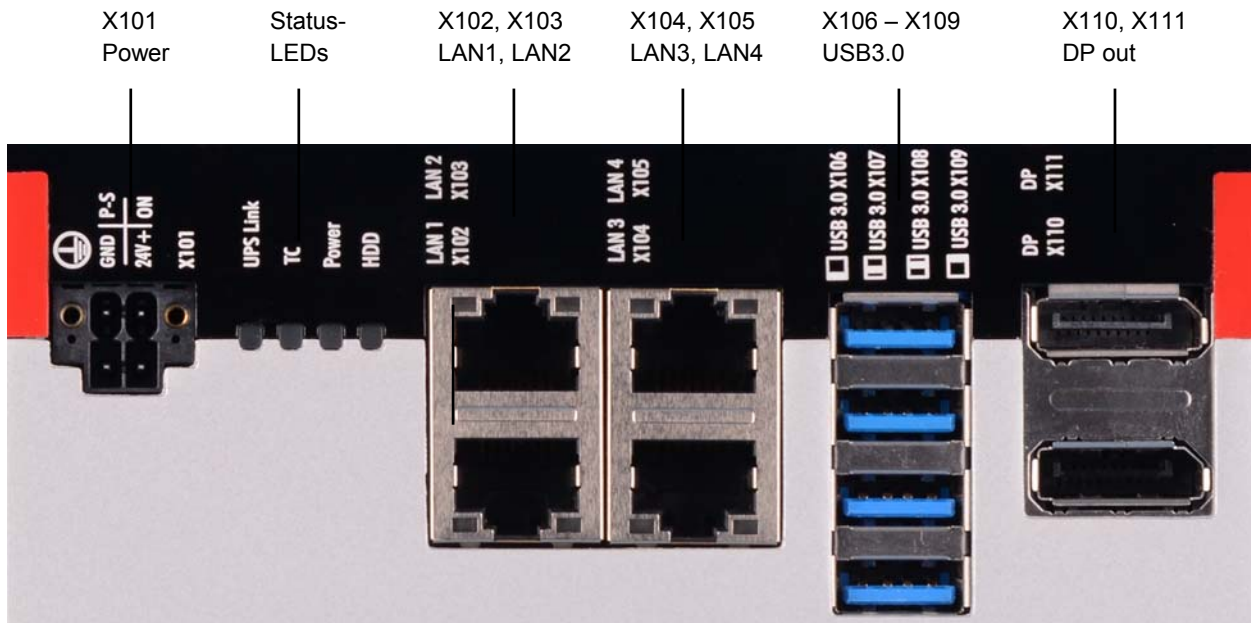
## 2.3 Access to the connectors

The connectors of the Industrial PC are located at the front side of the housing.



*Front view: C6030 without mounting mechanism*

## 2.4 Interfaces



### 2.4.1 Power Supply (X101)

The power supply for the Industrial PC is established via the socket (**X101**) (see also chapter [Pin assignment of the connector](#)).

The power supply connector is included in delivery.

### 2.4.2 Network connection LAN1, LAN2, LAN3, LAN4 (X102 - X105)

The RJ-45 connectors (**X102 - X105**) allow the PC to be connected to a 100/1000 BASE-T Local Area Network (LAN).

### 2.4.3 USB3.0 interfaces (X106 – X109)

The USB interfaces (**X106 – X109**) are used for connecting peripheral devices with USB connection. USB3.0 standard is supported.

### 2.4.4 DisplayPort (X110, X111)


The DisplayPorts (**X110, X111**) are used for transferring the video signal.


### 2.4.5 Protective Earthing (PE)



protective earthing (PE)

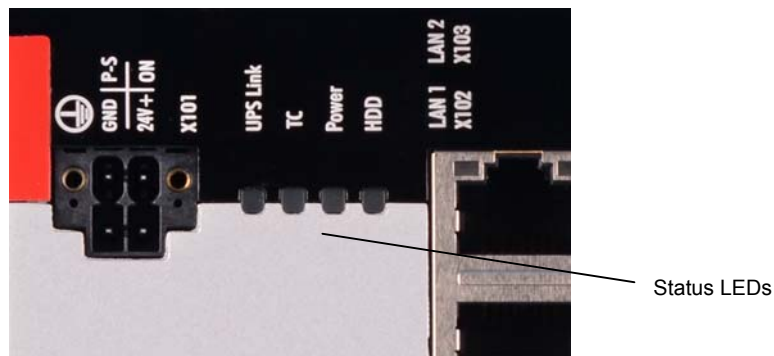
The low-resistance protective earthing of the Industrial PC is established via the screw connection (PE).

 <b>CAUTION</b>	<p><b>Protective Earthing (PE)</b></p> <p>The protective conductor connection must not be used for other potentials. "PE" and "0V" (24V system power supply) must be connected to the same potential (connected in the control cabinet).</p> <p>The wiring in the control cabinet must occur in accordance to the standard EN 60204-1:2006 (PELV = Protective Extra Low Voltage).</p> <p>EN 60204-1:2006 part 6.4.1: b): One side of the circuit or one point of the power source must be connected to the protective earth conductor system.</p>
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 <b>CAUTION</b>	<p><b>Breaking the Power Supply/ Shutting down</b></p> <p>Never disconnect the ground connection when switching off the device. Always disconnect the 24V cable, other wise electricity can still flow due to the screen in dependence of the device.</p> <p>Any connected devices with its own power supply must have the same potential for "PE" and "GND" like the Panel PC system (no potential difference).</p>
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## 2.5 Status LEDs

The Status LEDs are located at the front side of the C6030-0060:



Description of the Status LEDs:

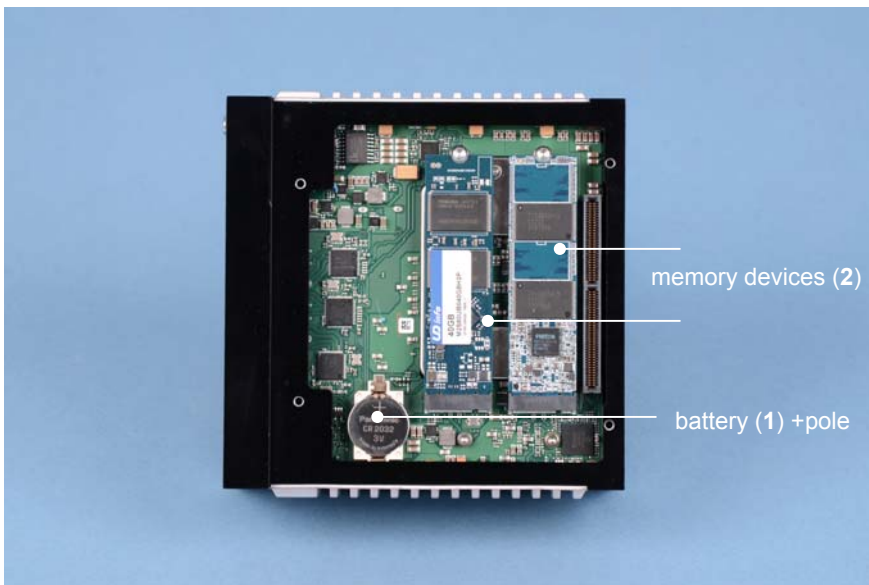
1	UPS Link	-	not defined
2	TC (TwinCAT):	red blue blue/ red blinking green green/ red blinking	TwinCAT Stop TwinCAT Config TwinCAT Config (Fieldbus Error) TwinCAT Run TwinCAT Run (Fieldbus Error)
3	Power:	green yellow	Industrial PC is busy Industrial PC shutdown
4	HDD (Hard disk):	red	access to the memory device


## 2.6 Access to the battery and the memory devices


The battery and the 40-GB-M.2-SSD, 3D flash memory device are located behind a cover at the side of the Industrial PC:



To remove the cover first unloose the four Torx TX10 screws (**see arrows**). Now you have access to the battery (1) and the memory devices (2):




 <b>WARNING</b>	<p><b>Danger of Explosion!</b></p> <p>Replace battery only with the identical type or an alternative type recommended by the manufacturer. Notice correct polarity!</p>
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 <b>WARNING</b>	<p><b>Handling of Batteries</b></p> <p>Batteries should not be recharged, exposed to fire, opened, short-circuited and they should be protected against sunlight and moisture.</p>
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## 2.7 Access to the fan

For optimal cooling the Industrial PC is equipped with a speed controlled fan with double ball bearings. The fan can be exchanged.

### 2.7.1 Replacing the fan

 <b>Attention</b>	<b>Identical fan type</b> Replace the fans only with the identical type or an alternative type approved by Beckhoff.
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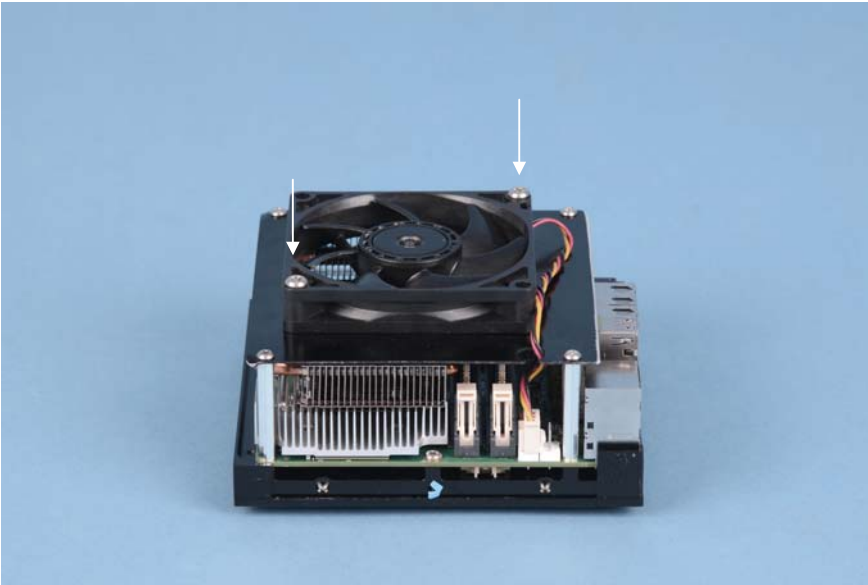
First remove the two red self-adhesive flaps at the top and the bottom of the housing. You have now access to the four Torx TX10 screws (**see arrows**):



After screwing out the four screws the fan housing can be removed and allows access to the fan.



After removing the two Torx TX20 screws (**see arrows**) the fan can be exchanged. Therefor disconnect the supply cable from the motherboard



After exchanging the fan the reassembly takes place in reverse order.



## 3 Installation

### 3.1 Transport and Unpacking

The specified storage conditions must be observed (see chapter [Technical Data](#)).

#### 3.1.1 Transport

Despite the robust design of the unit, the components are sensitive to strong vibrations and impacts. During transport, your device should therefore be protected from excessive mechanical stress. Therefore, please use the original packaging.

**Attention****Danger of damage to the unit**

If the device is transported in cold weather or is exposed to extreme variations in temperature, make sure that moisture (condensation) does not form on or inside the device.

Prior to operation, the unit must be allowed to slowly adjust to room temperature. Should condensation occur, a delay time of approximately 12 hours must be allowed before the unit is switched on.

#### 3.1.2 Unpacking

Proceed as follows to unpack the unit:

1. Remove packaging.
2. Do not discard the original packaging. Keep it for future relocation.
3. Check the delivery for completeness by comparing it with your order.
4. Please keep the associated paperwork. It contains important information for handling the unit.
5. Check the contents for visible shipping damage.
6. If you notice any shipping damage or inconsistencies between the contents and your order, you should notify Beckhoff Service.

## 3.2 Installation of the PC in the control cabinet

The C6030-0060 Industrial PC is designed for mounting in control cabinets for machine and plant engineering applications. The ambient conditions specified for operation must be observed (see chapter [Technical Data](#)).

### 3.2.1 Flexible mounting mechanism



The Industrial PC is provided with a flexible mounting mechanism for the free alignment of the connecting area (see also chapter [Assembly dimensions](#)) according to the order option:

Order option	Version
none	Provided with mounting sheet for rear wall installation
C9900-M668	Provided with mounting sheet for side wall installation, instead of sheet at the rear wall
C9900-M669	Only mounting sheet for side wall installation

The mounting sheets are fastened at the Industrial PC using Torx screws of size TX10.

### 3.2.2 Preparation of the control cabinet

The holes for the fixing bolts have to be provided in the control cabinet according to the dimensions of the PC (see chapter [Assembly dimensions](#)).

 <b>Note</b>	<p><b>Circulation of air</b></p> <p>When the unit is installed in an enclosure, adequate space for ventilation and for opening the PC must be provided.</p> <p>The clearance above and below the housing must be at least 5 cm and laterally at least 2 cm in order to ensure adequate ventilation of the PC.</p>
 <b>Attention</b>	<p><b>Avoid extreme environmental conditions</b></p> <p>Extreme environmental conditions should be avoided as far as possible. Protect the PC from dust, moisture and heat.</p> <p>The ventilation slots of the PC must not be covered.</p>

### 3.3 Power Supply of the Industrial PC


The Industrial PC is fitted with a 24 V<sub>DC</sub> power supply unit.

#### 3.3.1 Pin assignment of the connector

The power supply and the external circuit of the Industrial PC are connected via the 4-pole plug connector (Phoenix DFMC 1,5/2-STF-3,5 BK – 1708595):




Pin	Function	Pin	Function
GND	0V	P-S	Power-Status Output
24V +	Power Supply	ON	PC_ON Input

 <b>Note</b>	<b>Conductive cross-section</b> The connector is specified for 8 A and can lift conductive cross-sections until 1.5 mm <sup>2</sup> .
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#### 3.3.2 Cable Cross Sections

For the connection of the power supply, wiring with a cable-cross-section of 1.5 mm<sup>2</sup> must be used.

With bigger distances between voltage source and PC, you take the voltage drop as a function of the cable-cross-section as well as voltage fluctuations of your distribution voltage into account, so that is secured that the voltage doesn't fall under 22 V at the power supply.

 <b>Attention</b>	<b>Insert fuse</b> The power supply must be protected with maximum 16 A.
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#### 3.3.3 Check voltage rating and connect

Fitted with the 24 V<sub>DC</sub> power supply unit:

1. Check that the external power supply is providing the correct voltage.
2. Insert the power supply cable that you have assembled into the Industrial PC's power supply socket. Then connect it to your external 24 V power supply.


### 3.3.4 Configuration for shutting down the PC

The connections for shutting down the Industrial PCs are established via the **PC\_ON** input and the **Power Status** output.

### 3.3.5 PC\_ON and Power Status functions

- If the **PC\_ON** input is connected to 24 V via a switch, the PC shuts down according to the rules. The **PC\_ON** signal is inverted, i.e. the PC shuts down if the 24 V connection is live.
- Once the PC has shut down, the **Power Status** output is switched from 24 V to 0 V. Via this output a signal lamp can be connected or a contactor for de-energizing the whole system. The maximum load for the **Power Status** output is 0.5 A and a suitable fuse should be provided.

## 3.4 Connecting the Industrial PC

 <p><b>Attention</b></p>	<p><b>The mains plug must be disconnected</b></p> <p>The power supply plug must be withdrawn!</p> <p>Please read the documentation for the external devices prior to connecting them!</p> <p>During thunderstorms, plug connector must neither be inserted nor removed!</p> <p>When disconnecting a plug connector, always handle it at the plug. Do not pull the cable!</p>
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### 3.4.1 Connecting cables

The connections are located at the rear side of the Industrial PC and are documented in the [Product Description](#) chapter.

When connecting the cables to the Industrial PC, proceed according to the following sequence:

- Switch off all the devices that are to be connected.
- Disconnect all the devices that are to be connected from the power supply.
- Connect all the cables between the Industrial PC and to the devices that are to be connected.
- Connect all data transfer cables (if present) to the appropriate plug-in receptacles of the data/telecommunication networks.
- Reconnect all devices to the power supply.

### 3.4.2 Check voltage rating and connect

**Fitted with a 24 V<sub>DC</sub> power supply unit:**

1. Check that the external power supply is providing the correct voltage.
2. Insert the power supply cable that you have assembled into the Industrial PC's power supply socket. Then connect it to your external 24 V power supply.

### 3.4.3 Earthing measures

The low-resistance protective earthing of the Industrial PC is established via the screw connection (PE).

Establish a low-impedance connection from the earthing point on the Industrial PC housing (see chapter [Protective Earthing \(PE\)](#)) to the central earthing point on the control cabinet wall, in which the computer is being installed.

## 4 Operating Instructions

### 4.1 Switching the Industrial PC on and off


#### 4.1.1 Switch on


The Industrial PC does not have its own mains switch. The Industrial PC will start when the equipment is switched on, or when it is connected to the power supply.

#### 4.1.2 Shutting down and switching off

When the plant is switched off, or when it is disconnected from its power supply, the Industrial PC will be switched off.

Control software such as is typically used on Industrial PCs permits various users to be given different rights. A user who may not close software may also not switch the Industrial PC off, since data can be lost from the hard disk by switching off while software is running.

 <b>Attention</b>	<p><b>First shut down, then switch off the PC</b></p> <p>If the Industrial PC is switched off as the software is writing a file to the memory drive, the file will be destroyed. Control software typically writes something to the memory drive every few seconds, so that the probability of causing damage by switching off while the software is running is very high.</p>
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 <b>Attention</b>	<p><b>Switch off power supply</b></p> <p>When you have shut down the Industrial PC, you have to switch off power supply for at least 10 seconds before rebooting the system.</p> <p>After resetting power supply the PC will start booting automatically.</p>
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#### 4.1.3 First switching on and driver installation

When you switch on the Industrial PC for the first time, the pre-installed operating system (optional) will be started. In this case, all the required drivers for any additional, optional hardware components ordered with the PC will already have been installed.

If the PC was ordered without operating system, you have to install the operating system and the driver software for any auxiliary hardware yourself. Please follow the instructions in the documentation for the operating system and the additional devices.

## 4.2 Servicing and maintenance

### 4.2.1 Cleaning of the Industrial PC

 <p><b>DANGER</b></p>	<p><b>Disconnect power supply</b></p> <p>Switch off the Industrial PC and all connected devices, and disconnect the Industrial PC from the power supply.</p>
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The device can be cleaned with a soft, damp cleaning cloth. Do not use any aggressive cleaning materials, thinners, scouring material or hard objects that could cause scratches.


### 4.2.2 Maintenance

The Industrial PC is maintenance-free.

### 4.2.3 Replacing the Battery on the Motherboard

A used battery on the motherboard has to be replaced. See also chapter [Access to the battery and the memory device](#).

 <p><b>WARNING</b></p>	<p><b>Danger of Explosion!</b></p> <p>Replace battery only with the identical type or an alternative type recommended by the manufacturer. Notice correct polarity!</p>
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 <p><b>WARNING</b></p>	<p><b>Handling of Lithium Batteries</b></p> <p>Lithium Batteries should not be recharged, exposed to fire, opened and they should be protected against sunlight and moisture.</p>
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The used battery must be disposed of in accordance with national electronics scrap regulations.

## 4.3 Emergency procedures

In case of fire, the Industrial PC should be extinguished with powder or nitrogen.

## 4.4 Shutting down

### 4.4.1 Disposal

 <p><b>Note</b></p>	<p><b>Observe national electronics scrap regulations</b></p> <p>Observe the national electronics scrap regulations when disposing of the device.</p>
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In order to dispose of the device, it must be removed and fully dismantled:

- Housing components (polycarbonate, polyamide (PA6.6)) are suitable for plastic recycling
- Metal parts can be sent for metal recycling
- Electronic parts such as disk drives and circuit boards must be disposed of in accordance with national electronics scrap regulations.


## 5 Troubleshooting

Fault	Cause	Procedure
Nothing happens after the Industrial PC has been switched on	No power supply to the Industrial PC  Other cause	Check power supply cable  Call Beckhoff Service
The Industrial PC does not boot fully	Setup settings are incorrect  Other cause	Check the setup settings  Call Beckhoff Service
Computer boots, software starts, but control does not operate correctly	Cause of the fault is either in the software or in parts of the plant outside the Industrial PC	Call the manufacturer of the machine or the software
Memory device access error	Faulty device	Call Beckhoff Service
The Industrial PC functions only partially or only part of the time, e.g. no or dark picture, but disk drive responds when switching on	Defective components in the Industrial PC	Call Beckhoff Service

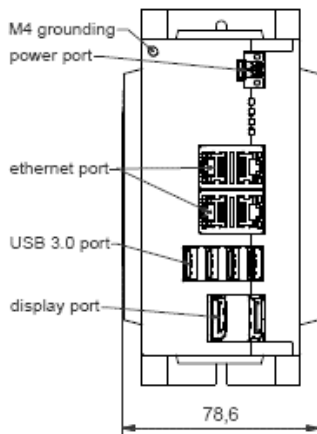
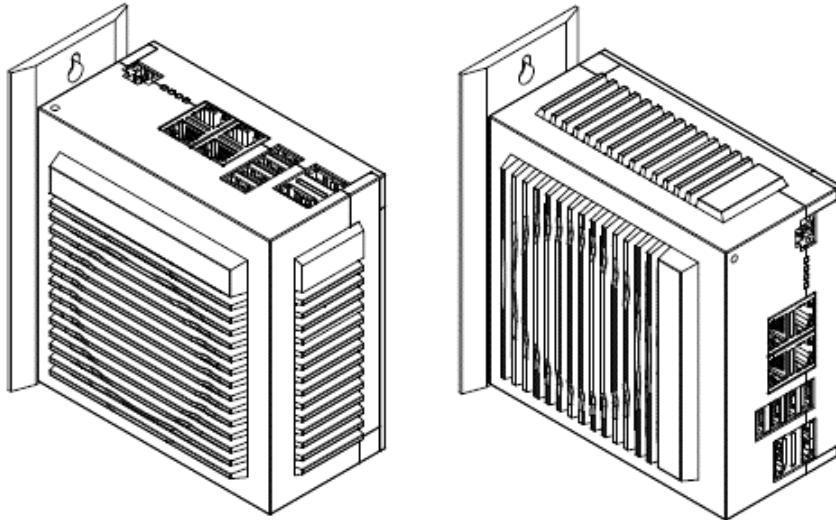


# 6 Assembly dimensions

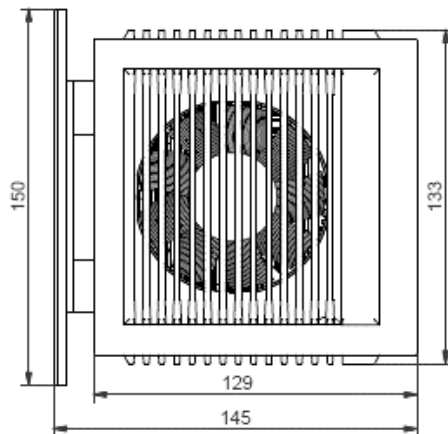
## Industrial PC C6030-0060, with mounting sheet for rear wall installation

 <b>Attention</b>	<p><b>Notice mounting orientation</b></p> <p>The assembly of the unit must take place with the orientation diagrammed here.</p>
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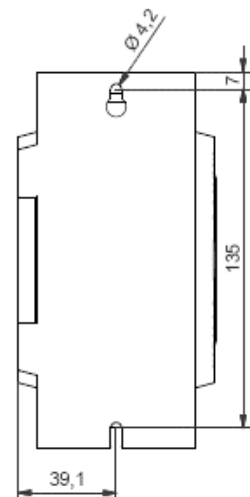
All dimensions in mm.



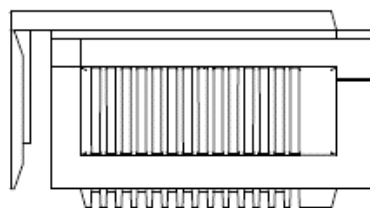
front view



side view




back view

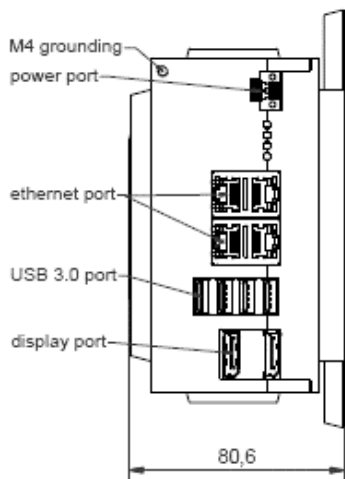
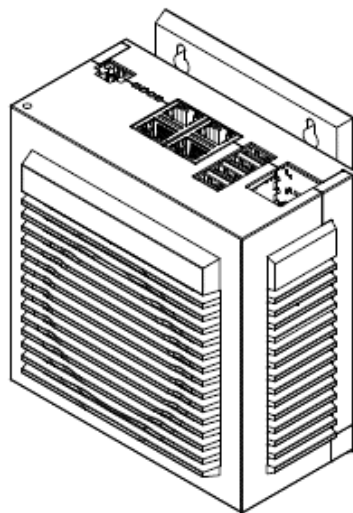
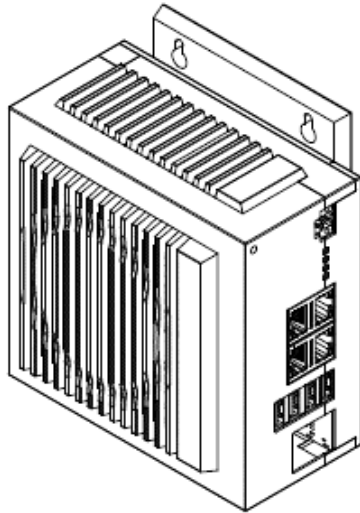


top view

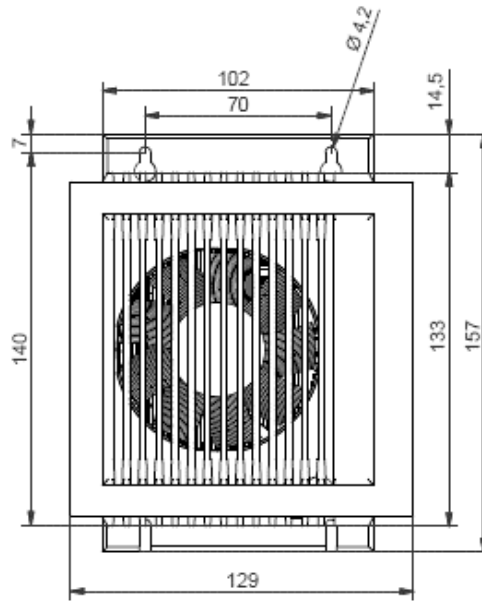
**Industrial PC C6030-0060, with mounting sheet for side wall installation**

 <p><b>Attention</b></p>	<p><b>Notice mounting orientation</b></p> <p>The assembly of the unit must take place with the orientation diagrammed here.</p>
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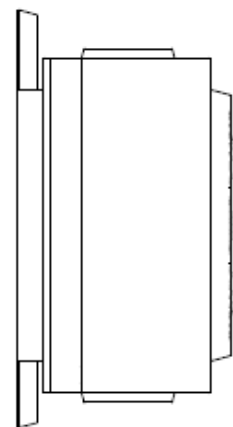
All dimensions in mm.



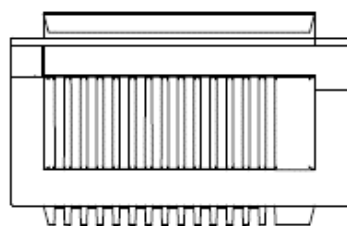
front view



side view



back view



top view

## 7 Technical Data



**Danger**

### Risk of explosion!

Do not use the Industrial PC in areas of explosive hazard!

<b>Product name</b>	<b>C6030-0060</b>
Dimensions (B x H x T)	see chapter <i>Assembly dimensions</i>
Weight	approx. 1460 g without mounting sheet approx. 1700 g with mounting sheet
Supply voltage	22–30V V <sub>DC</sub> (24 V <sub>DC</sub> power supply unit)
Power consumption	max. 60 W (basic configuration)
Interfaces	4 x RJ-45 Ethernet 100/1000BASE-T 2 x Display Port 4 x USB 3.0
Protection class	IP20
Shock resistance (Sinusoidal vibration)	EN 60068-2-6:      10 to 58 Hz:    0,035 mm 58 to 500 Hz:   0,5 G (~ 5 m/ s <sup>2</sup> )
Shock resistance (Shock)	EN 60068-2-27:    5 G (~ 50 m/ s <sup>2</sup> ), duration: 30 ms
EMC compatibility	Resistance to interference conforms to EN 61000-6-2
EMC compatibility	Emission of interference conforms to EN 61000-6-4
Permissible ambient temperature	0°C to +55°C (operation) -25°C to +65°C (transport/ storage)
Permissible relative humidity	to 95%, no condensation
Transport and storage	The same values for atmospheric humidity and shock resistance are to be observed during transport and storage as in operation. Suitable packaging of the Industrial PC can improve the resistance to impact during transport.
Certifications	CE

## 8 Appendix

### 8.1 Beckhoff Support and Service

Beckhoff and their partners around the world offer comprehensive support and service, making available fast and competent assistance with all questions related to Beckhoff products and system solutions.

#### 8.1.1 Beckhoff branches and partner companies

Please contact your Beckhoff branch office or partner company for [local support and service](#) on Beckhoff products!

The contact addresses for your country can be found in the list of Beckhoff branches and partner companies: [www.beckhoff.com](http://www.beckhoff.com). You will also find further [documentation](#) for Beckhoff components there.

#### 8.1.2 Beckhoff company headquarters

Beckhoff Automation GmbH & Co. KG  
Huelshorstweg 20  
33415 Verl  
Germany

Phone: + 49 (0) 5246/963-0  
Fax: + 49 (0) 5246/963-198  
E-mail: [info@beckhoff.de](mailto:info@beckhoff.de)  
Web: <http://www.beckhoff.de/>

#### Beckhoff Support

Support offers you comprehensive technical assistance, helping you not only with the application of individual Beckhoff products, but also with other, wide-ranging services:

- world-wide support
- design, programming and commissioning of complex automation systems
- and extensive training program for Beckhoff system components

Hotline: + 49 (0) 5246/963-157  
Fax: + 49 (0) 5246/963-9157  
E-mail: [support@beckhoff.com](mailto:support@beckhoff.com)

#### Beckhoff Service

The Beckhoff Service Center supports you in all matters of after-sales service:

- on-site service
- repair service
- spare parts service
- hotline service

Hotline: + 49 (0) 5246/963-460  
Fax: + 49 (0) 5246/963-479  
E-mail: [service@beckhoff.com](mailto:service@beckhoff.com)

If servicing is required, please quote the **project number** of your product.

## 8.2 Approvals for USA and Canada

### 8.3 FCC Approvals for the United States of America

**FCC: Federal Communications Commission Radio Frequency Interference Statement**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

**Note****Technical modifications**

Technological changes to the device may cause the loss of the FCC approval.

### 8.4 FCC Approval for Canada

**FCC: Canadian Notice**

This equipment does not exceed the Class A limits for radiated emissions as described in the Radio Interference Regulations of the Canadian Department of Communications.