

Beckhoff C6930 control cabinet PC: High data security and high performance with space-saving design



Lithium battery

1 slot for Compact Flash card

2 slots for 2 1/2-inch hard disks or SSD

Power supply socket

2 free plug connector panels for interfaces installed ex works, e.g. RS232, sound or 2 USB ports (option)

Ethernet adapter: 1 x 10/100BASE-T and 1 x 10/100/1000BASE-T

4 USB 2.0 ports

DVI-I connector

COM1: 1 serial interface RS232

1 Mini PCI slot for fieldbus interface, Ethernet port or NOVRAM (option)

**BECKHOFF**

C6930-0010

Serial No: 600919-006  
 Date: 17.04.2009  
 Mainboard: C6930-0003  
 CPU: Core Duo 2.0GHz FC694-479  
 Memory: 2 x 512MB DDR2 800 667MHz  
 Mini PCI: FC951 Ethernet 10/100  
 HDD1: 2.5" 40GB SATA  
 HDD2: 2.5" 40GB SATA  
 Compact Flash: 64MB IDE  
 Power supply: 24V DC

FCC: Federal Communications Commission  
 Radio Frequency Interference Statement

The equipment has been tested and found to comply with the limits for Class A digital devices 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 properly 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.

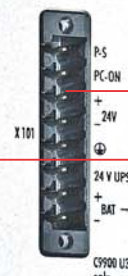
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Made in China

**BECKHOFF**  
 C6930



# Ultra compact Industrial PC with RAID system

The new C6930 control cabinet PC from Beckhoff combines everything a cutting-edge Industrial PC requires in a compact aluminum housing: a 3 1/2-inch Beckhoff Motherboard designed for Intel® Core™ Duo or Core™2 Duo, a wide range of PC interfaces, up to three Ethernet ports, e.g. for EtherCAT-based controllers and optional fieldbus interfaces for conventional bus systems. The C6930 offers high data security through an integrated RAID system for mirroring hard disks.

The C69xx control cabinet PC series currently includes four devices with compact designs, ranging from the C6915 mini PC with Intel® Atom™ CPU to the new compact C6930 IPC with impressively small dimensions of only 89 x 231 x 119 mm (W x H x D). The compact Industrial PC is designed for control cabinet installation and features a 3 1/2-inch Beckhoff Motherboard for Intel® Core™ Duo or Core™2 Duo. Cooling fins behind the right-hand side panel enable fanless operation of the PC at temperatures up to 55 °C (131 °F).

The C6930 has an on-board SATA RAID controller for mirroring two hard disks. It can be used for convenient configuration of RAID applications supported by TwinCAT automation software. In addition to or instead of the hard drive, a flash disk can be integrated in the form of a Compact Flash card (CF) or a solid-state disk (SSD). The result is high data security that can be enhanced further through optional UPS functionality.

The C6930 features two free plug connector panels for additional interfaces installed ex works such as RS232, sound and two additional USB ports. Optional fieldbus interfaces, e.g. for PROFIBUS, CANopen, DeviceNet or SERCOS, a third Ethernet port or a NOVRAM memory module for fail-safe storage of process data can be connected via a free Mini PCI slot.

The compact C6930 control cabinet PC is ideally suited for application as a central controller in an EtherCAT-based control system. It is equipped with two standard and an optional Ethernet port and offers optimum performance for all EtherCAT control tasks.

[www.beckhoff.com/C6930](http://www.beckhoff.com/C6930)



Fan cartridge with speed control and double ball bearing fans

The compact C69xx control cabinet PC series (from left to right):



C6915:

Intel® Atom™,  
fanless

C6925:

Intel® Celeron®  
M ULV 1 GHz,  
fanless

C6920:

Intel® Core™ Duo  
or Core™2 Duo

C6930:

Intel® Core™ Duo  
or Core™2 Duo,  
RAID 1 controller

## Technical data:

Industrial PC for space-saving control cabinet installation

processor Intel® Core™ Duo/Intel® Core™ 2 Duo

3 1/2-inch motherboard

512 MB DDR2RAM, expandable ex factory to 3 GB

on-board graphic adapter, Intel® GMA950, DVI-I connector

on-board dual Ethernet adapter with 1 x 10/100BASE-T and  
1 x 100/1000BASE-T connectos

on-board SATA RAID 1 controller, Intel® Matrix Storage Technology

1 hard disk, 2 1/2-inch, 40 GB

(optional: second 2 1/2-inch hard disk or SSD instead of hard disk)

1 serial RS232 interface, 4 USB 2.0 ports

slot for 1 Compact Flash card behind front flap

optional: Mini PCI card with fieldbus interface, Ethernet port or NOVRAM

optional: second serial port led out as RS232, RS422 or RS485, sound line inputs  
and outputs or 2 USB 2.0 ports

operating system: Microsoft Windows XP Embedded or Windows XP Professional

protection class: IP 20

operating temperature range: 0...55 °C (32 ...131 °F)

weight of the basic configuration: 2.1 kg (4.6 lbs)

dimensions (W x H x D): 89 x 231 x 119 mm, without mounting plate