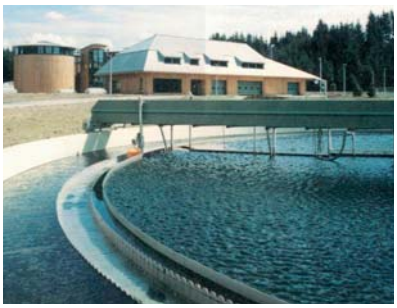
ECCO-Box



The Performant Cabinet Computer

- Powerful application server
- High-performance CPU for every application
- DVD drive in a removable cage
- PCI and PCI express slots
- DVI interface (option)
- Cooling concept for high-performance non-stop operation
- Installation optionally in vertical or horizontal position
- Long term available standard industrial mainboard

Many applications demand a high CPU performance. Some industrial computers do not satisfy these requirements however, and desktop PCs are often used. But they can not be mounted in the control cabinet and have to be installed into separate cases what leads to higher integration costs.

The ECCO-Box offsets these disadvantages and is suitable for high-perfomance industrial use. It is based on an industrial mainboard and provides the performance of the current CPU generation and state-of-the-art computer technology.

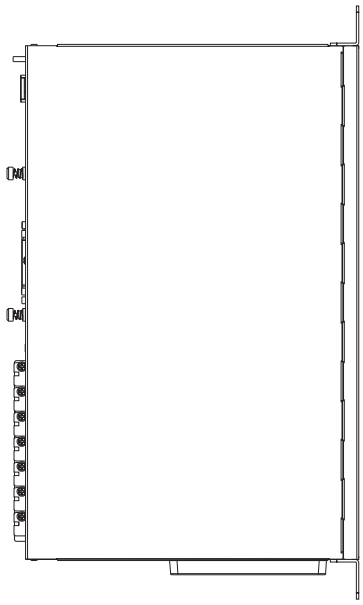
The cabinet computer ECCO-Box features always a current base board. In addition, it offers PCI and PCI express interfaces as well as USB and Ethernet connectors for functional extensions.
An industrial remote display can be connected via VGA or the DVI interface.

The ECCO-Box can be used universally and mounted into all usual control cabinet systems. It can be installed optionally in vertical or horizontal position. Interfaces and drives are always accessible on the front of the device.

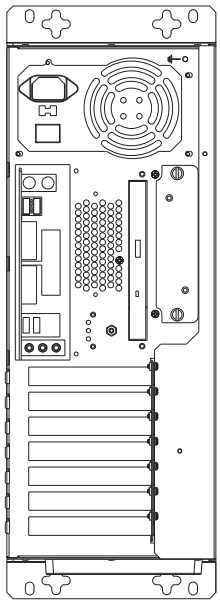
ECCO-Box ■ Device Variants

Dimensions (W x H x D)

- 170 x 431.5 x 270 mm



Connections



Note: The exact mechanical dimensions are available on the internet: www.msc-tuttlingen.com

Housing	■ Mechanically stable, robust system-unit cover made of galvanized sheet-steel to be installed in cabinets (vertically or horizontally). ■ Industrial, EMC housing design, cooling concept especially designed for high-performance systems (due to optimized CPU fan, device fan and power supply fan)
Protection class	■ IP20
Baseboard/CPU	■ Industrial standard board, chip set Intel Q45 / ICH10 D0 ■ Celeron 440 (2.00 GHz), Celeron E1500 (Dual Core 2x 2.20 GHz), Intel Core™2 Duo E8400 (2x 3.00 GHz), Intel Core™2 Quad Q9400 (4x 2.66 GHz) ■ Onboard graphics (shared memory)
Slots[1]	■ 4x PCI, 1x PCI express x1, 1x PCI express x8 (1 Lane), 1x PCI express x16
Memory	■ Up to 16 GB DDR2 RAM
Drive units	■ Hard disk 2.5" ≥ 80 GB (SATA), exchange possible from outside, SSD from 32 GB opt. ■ Optional two HDDs as RAID0 or RAID1 array ■ Optional slimline DVD-RW drive on the front side
Interfaces	■ COM1 as RS 232, 2x PS/2, 1x VGA ■ 2x Ethernet (10/100/1000 Mbit) ■ 6x USB 2.0 ■ Audio: Line-in, Line-out, Mic-in
Interface options	■ 1x DVI-D
Supply voltage	■ 100-240 VAC (90....264 VAC) or 24 VDC (18... 24 VDC)
Power consumption Max. Typ.[2]	■ 590 VA ■ 125 VA
Ambient temperature	■ +5 °C up to +45 °C
EMC: interference emission/ interference resistance	■ According to EN 55022:1998 + A1:2000 + A2:2003 Class A ■ According to EN 55024:1998 und EN 61000-6-2:2001
Shock load in operation/ Oscillating load in operation	■ EN 60068-2-27 ■ EN 60068-2-6
Operating system	■ Windows® XP Prof., other upon request
Endurance test	■ 48 h burn-in before delivery
Test certificate	■ CE

[1] Depending on the application respectively system configuration, please note possible restrictions regarding the electrical power supply for the slot cards!
[2] These information correspond to the basic version.

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MSC Microcomputers **S**ystems **C**omponents
Tuttlingen GmbH
Rudolf-Diesel-Straße 17 · D-78532 Tuttlingen
Tel. +49-7461-925-200 · Fax +49-7461-925-268
E-Mail sales@msc-tuttlingen.de
www.msc-tuttlingen.com