

MOTORCORTEX CONTROL CASE

MCX-GCC-A4-EC2-F



The MOTORCORTEX Control Case is a complete Industrial Motion Control and Safety System in a small form-factor. It has everything you need to control any EtherCAT-based Machine or Robot safely.

The MOTORCORTEX Control Case also has everything on board to get started quickly with developing your own Advanced Control Systems in C++. Use the application templates available for C-Lion and the tools available on motorcortex.io. Create your own Web Interface with MCX-GRID and plot real-time data in MCX-DESK. Or interface your own application with the Open Source MOTORCOREX Client Libraries for Javascript, Python and C++.

The Controller is equipped with a Powerful CPU for advanced Motion Control Applications and an EtherCAT Safety Controller (FSoE) that is easily expandable through EtherCAT.

Add the MOTORCORTEX-Generic-App to your system to control up to 6 EtherCAT servo axis and numerous EtherCAT IO straight from a connected web-browser. No software installation or programming required. It allows for synchronous replay of motion profiles on all axes simultaneously.

PERFORMANCE

cpu	Quad-Core Intel Atom, 4 GB RAM
storage	32 GB SSD
safety master	Beckhoff EL6910

DIMENSIONS

size	444 x 370 x 144 mm (including connectors)
weight	15 kg
mount options	desktop or 19" rack-mount (brackets optional)
packaging	cardboard box 560 x 420 x 290 mm (LxWxH) total weight: 16 kg

ENVIRONMENT

temperature	-20 °C ... +55 °C -4 °F ... 131 °F
relative humidity	20-90 %, non-condensing
protection	case shall be placed in an IP54 environment

INPUTS

POWER

input voltage	85 ... 264 V AC 50/60Hz
input current (nominal)	@100 V AC: 2.4 A @115 V AC: 2.2 A @230 V AC: 1.2 A

connector	IEC C13 socket (male)
fuse	4 A, non-resettable

SAFETY INPUTS

Emergency Stop	1x M12 female (A-coded) Pin1: Pulse Output1 Pin2: Safe Input1 Pin3: Pulse Output2 Pin4: Safe Input2 Pin5: n.c.
other safety inputs	possible via EtherCAT (FSoE devices)

OUTPUTS

ethercat	2x EtherCAT (RJ45)
network	1x gigabit Ethernet (RJ45)
connectivity	1x HDMI 2x USB 3.0
power outputs	2x M12 female connector (A-coded) Pin1: +24 V DC Us (2A max) Pin2: +24 V DC Up (4.3 A max) Pin3: 0 V DC Pin4: 0 V DC Pin5: PE
Safety STO output	1x M12 male connector (A-coded) Pin1: +24VDC logic Pin2: STO channel 1 (24 V DC, 0.5A max) Pin3: 0VDC Pin4: STO channel 2 (24 V DC, 0.5A max) Pin5: STO feedback (input)