



Modular Control for igus® Robots

Applications

The modular robot control complements the igus® robolink® D robots and drylin® E gantries with an intuitive control software and service friendly electronics.

Applications are, amongst others:

- Pick-and-Place e.g. in material feeding, sorting, quality assurance, ...
- Assembly tasks
- Computer vision applications
- Education
- Research and development

Control

The control and programming environment CPRog for Windows 7/10 generates the commands for the joints and forwards them with a USB-to-CAN adapter to the electronic modules. CPRog is based on a 3D user interface that allows an easy start into robot programming. The robot can be moved in reality, but also in simulation to allow testing. Robot programs can contain e.g. Joint, Linear, DigitalOut, Loop or If-Then-Else commands. Further components, e.g. computer vision systems, can be connected using plugins.

It is also possible to use an embedded robot control in DIN rail form factor. In this case the programming is still done using the Windows PC with graphical user interface. But for the operation the PC is not necessary any more.

Source code and ROS packages are provided.

Electronic Modules

Stepper Motor Module:

- Smooth motion with 1/256 microstepping
- Minimal heat generation by using adaptive current
- control: Trinamic StallGuard2 and CoolStep Technologies

Digital Input/Output Module:

- 7 inputs via optocoupler
- 7 outputs via reed relays

Support Module:

- DC/DC converter for logic supply
- Main relay, soft start relay

Specifications

- DIN-rail modules with bus connection
- Communication via CAN field bus 500 kbps
- 3 to 6 stepper motor modules, 1 support module, 1 digital input/output module
- Applicable kinematics:
 - 4, 5, 6 axis robot arms
 - 3 axis gantries
- Power supply: 24V/5 to 10A
- Safety: No integrated safety functionalities. These have to be realized using additional safety components.

Options

Options like gripper or smart cameras are listed on the back side. If you do need further components or functionalities, please just get to us!

Further information, photos, videos can be found on our homepage. We are happy to provide a formal quote or a pro forma invoice. We ship worldwide!

→ → → www.cpr-robots.com

roboLink Whole Package

The simple solution: we provide robot and control, fully configured and tested.



roboLink with control 5 axis, small version: € 5.620
roboLink with control 5 axis, big version: € 6.407
Further variants can be found in our web shop.

Contains: Ready-made and tested roboLink robot with control (see left). Power supply and further options can be found in our web shop.

Embedded Robot Control

Compact Linux robot controller in DIN rail form factor.



Embedded robot control: € 558

Contains: Embedded robot control in DIN rail form factor, operation panel with 3.5" touch display, cables, documentation.

Vision

2D smart camera system for object detection



Vision-System IFM 02D: € 1.430

Contains: Smart camera IFM 02D, cables, software plugin for control software, documentation.

Robot Control

If you already have the roboLink robot arm, we can provide the necessary control.



Robot control for 4 axis: € 1.721
Robot control for 5 axis: € 1.897

Contains: Motor modules, digital IO module and support module for DIN rail, USB-CAN adapter, Windows software CPRog, documentation. The control runs on a Windows PC or on the Embedded robot control. Power supply and further options can be found in our web shop.

Gripper

Pneumatic or electric gripper



Pneumatic Gripper with valve: € 295 to € 689
Vacuum suction cup with ejector: € 322
Electro gripper: € 465

Contains: Gripper, adapter plate, tubes and connectors, cables.

All prices in Euro plus VAT. The pictures may show options.