

## RP-2 expandable motion controller

Robox designs and manufactures a family of motion controllers for robots, machine tools, and flexible machines. These controllers are applied in a variety of fields: robotics, paper industry, glass industry, marble industry, wood industry, food industry, packaging, textile industry, fiber-optic handling, printing machines, etc.

The CANopen interface allows communication of these controllers with remote devices.

### As a master device they can handle up to 16 nodes:

- Drives: communication according to the CiA 402 device profile (position, speed, and torque control are available)
- remote I/Os: communication according to the CiA 301 CANopen specification

As a slave device, the controller can be interfaced using the DeviceNet higher-layer protocol.

The RDE (Robox Development Environment) tool allows the user to configure the network, while the Robox R3 programming language allows to build the desired motion scenarios for gearings and cams.

Remote and on-line debug tools are available as well.

### Motion controller RP-2

- Arm Cortex A9 dual-core processor (800 MHz)
- Multi-tasking capability
- Structured text and graphical programming languages
- Control of up to 32 axes
- Control of up to 2048 digital inputs, 2048 digital outputs, 128 analog inputs, and 128 analog outputs

## Contact

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## Features

<b>NMT</b>	NMT master
<b>Error control</b>	Node guarding Life guarding Heartbeat consumer: 32 message(s)
<b>Boot-up</b>	No
<b>Node ID range</b>	1 to 127
<b>Node ID</b>	Proprietary
<b>CANopen bit-rates</b>	250 kbit/s 500 kbit/s 800 kbit/s 1 000 kbit/s
<b>Type of bit-rate adjustment</b>	Proprietary
<b>RPDOs</b>	4
<b>TPDOs</b>	4

<b>PDO modes</b>	Event-triggered Remotely-requested Synchronous (cyclic) Synchronous (acyclic)
<b>PDO linking</b>	No
<b>PDO mapping</b>	Variable
<b>SDO server</b>	1
<b>SDO client</b>	16
<b>Emergency producer</b>	No
<b>Emergency consumer</b>	16 message(s)
<b>Sync producer</b>	Yes
<b>Sync counter</b>	No
<b>Time stamp</b>	No
<b>Additional functions</b>	None
<b>CANopen version</b>	CiA 301 V 3.0
<b>Frameworks</b>	CiA 302
<b>Device profiles</b>	None
<b>Certified</b>	No
<b>Availability</b>	In stock