



# Advanced robotics for modern, efficient farming

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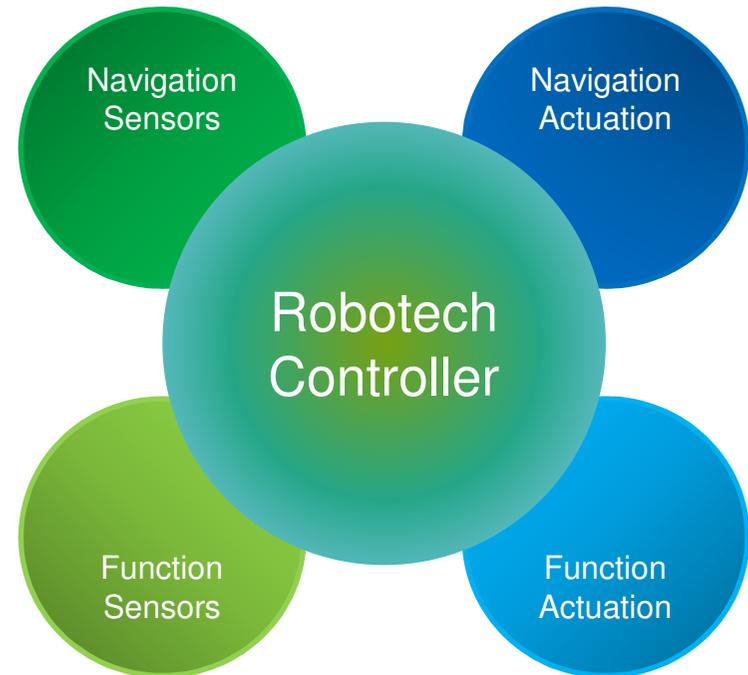


# Robotech Controller 701

Powerful Embedded Vehicle Computer

# Compleks Robotech Controllers

- The Robotech Controller is the core of any autonomous vehicle equipped with Compleks' Robotech technology.
- The Robotech controller has four main logical interfaces:
  - Navigation sensors
  - Navigation actuators
  - Function sensors
  - Function actuators
- The interfaces towards the navigation parts are generic, whereas the interfaces towards the functional parts are application specific.



# Robotech Controller 701

## Introduction

- The Compleks Robotech Controller 701 is a high-performance, ruggedized embedded vehicle computer platform e.g. for temperature-hardened outdoor robotics.
- The controller is equipped with a number of external interfaces making it possible to connect the controller to all the sensors and controls used in your specific robotics or advanced automation application.
- All interfaces are supported by the Robotech Controller software package that includes ROS-based middleware and a Linux/Ubuntu operating system.



# Robotech Controller 701

## Main Features

- On-board 3<sup>rd</sup> generation Intel Core I7 processor
- Flash-based hard-drive
- Linux/Ubuntu operating system
- Compact design, IP67 compliant, fully sealed mechanics
- Can-bus interfaces for sensor connectivity
- GE and FE Ethernet and USB 3.0/2.0 ports
- GPS prepared
- WiFi and Bluetooth supported
- Serial ports
- Automotive 12 VDC supply (6-30 V range)
- 0 – 40 °C operational temperature range



# Robotech Controller 701

## Main Processor Board

- The Conpleks Robotech Controller 701 is equipped with a powerful Kontron KTQM77/mITX embedded Mini ITX board that supports the 3rd Generation Intel® i7-, i5-, i3 2Core and 4Core CPU technology with long-term availability.
- Based on the Mobile 3rd generation Intel® chipset, the motherboard offers an ideal performance-per-watt ratio and the very latest interface technology, e.g. 3rd generation PCI Express x16.
- Legacy interfaces are also supported, 6 x SATA (incl. 2 x SATA III) interfaces alongside the 4x USB 3.0 & 10x USB 2.0 interfaces. A unique multi-purpose feature connector supports up to 160 GPIO's.



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## About Conpleks Innovation

Conpleks Innovation is based in Struer, Denmark, and operates worldwide. Our customer base consists of both small domestic companies and large international corporations.

Depending on the nature of the task, we can involve an entire network of competent hardware, software and mechanical design professionals.

This way, we can assign appropriate resources, find the best solutions and create a successful product.

## Contact us

You are always welcome to contact us and discuss how we can help you to develop your idea – partly or fully – depending on your needs.



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