

# RoboVero™ Product datasheet

PKG30019

USD99.00

THIS STANDALONE LPC1769 MICROCONTROLLER BOARD FOR ROBOTICS APPLICATIONS has onboard sensors, buttons, and LEDs. Interfacing with an Overo-series COM, RoboVero supports Caspa-series cameras and high-level software applications.

It also features numerous header pins for GPIO/CAN/I2C/SPI/UART/PWM and analog signals, being well-suited to motor control applications.

Manage the Cortex-M3 from the onboard Overo COM or from an external USB interface using our very own HUBCOMMANDER™ interface.



## Product Features

Robotics	
<b>Accelerometer</b>	Accelerometer Magnetometer
<b>Controller Area Network (CAN)</b>	For use in applications employing the CAN serial communication physical layer in accordance with the ISO 11898 standard.
<b>Gyroscope</b>	3-Axis Angular Rate Sensor
<b>Magnetometer</b>	ST LSM303DLH 3-Axis Magnetometer
<b>Motor Control</b>	header pins for GPIO/CAN/I2C/SPI/UART/PWM and analog signals
Inter-board connector	
<b>Board-To-Board Connector</b>	2 x 70-pin AVX connectors
Mechanical	
<b>Length</b>	118.2 mm L
<b>Width</b>	67.2 mm W
<b>Weight</b>	BRD30019 @ 32.2g
Usb	
<b>HubCommander™ interface</b>	Included
<b>USB Device</b>	Included
<b>USB Host</b>	Included
Product series	
<b>Product Family</b>	Overo
Power	
<b>RTC Battery Holder</b>	Holder for 6mm rechargeable coin cell RTC battery
Processor	
<b>Temperature</b>	Built with components rated $0 < T < 70C$

### Mating connector

2 × 70-Pin AVX Connectors (Female Overo Expansion)

### What's included

1 × RoboVero (board)

### Key component

- 1 × Texas Instruments SN65HVD232 CAN Transceiver
- 1 × Texas Instruments TPS62111 Step-Down Converter
- 1 × ST LSM303DLH 3-Axis Accelerometer & Magnetometer
- 1 × ST L3G4200D 3-Axis Gyroscope
- 1 × NXP LPC1769 Microcontroller

### Product links

- [Schematics and Board Layout](#)
- [2015-02-25/overo/master/MLO](#)
- [2015-02-25/overo/master/u-boot.img](#)
- [2015-02-25/overo/master/README](#)
- [2015-02-25/overo/master/gumstix-xfce-image-overo.tar.bz2](#)
- [2015-02-25/overo/master/gumstix-console-image-overo.ubi](#)
- [2015-02-25/overo/master/gumstix-xfce-image-overo.ubi](#)
- [Geppetto@Workspace](#)

