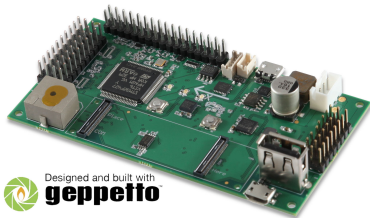


AeroCore 2 for Overo Product datasheet

PKG30024N

USD149.00

AeroCore 2 for Overo



Developed in conjunction with Stanford University Aero/Astro graduate students Robbie Bunge and Andrew C. Smith, the AeroCore from Gumstix offers everyone from enthusiasts to educators the opportunity to power their very own micro-aerial vehicle. With an ARM Cortex-M4 microcontroller running NuttX RTOS and an integrated connection for Overo series computers-on-module, AeroCore gives users a complete Linux installation on a PX4-compatible platform.

Ready to make the AeroCore 2 even more uniquely yours? Make the exact customizations you need in Geppetto today!

Compatible with: Overo COMs, the Pre-GO, and the Pre-GO PPP.

Product Features

Robotics	
Barometer	Included
Controller Area Network (CAN)	For use in applications employing the CAN serial communication physical layer in accordance with the ISO 11898 standard.
Gyroscope	3-Axis Angular Rate Sensor
Inter-board connector	
Board-To-Board Connector	2 x 70-pin AVX connectors
General	
Buzzer	Included
Mechanical	
Length	50 mm L
Width	96 mm W
Processor	
Processor	ARM Cortex-M4 Microcontroller
Product series	
Product Family	Overo
Input/output	
PWM(s)	8xPWM Outputs for Motor Control
Communications	
USB Console Port	Included
Usb	
USB Host	Included

Mating connector

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

What's included

1 × AeroDroid with Overo V1

Key component

- 1 × Texas Instruments SN65HVD232 CAN Transceiver
- 1 × Texas Instruments TPS62111 Step-Down Converter
- 1 × FTDI FT232RQ USB UART Interface
- 1 × ST L3G4200D 3-Axis Gyroscope
- 1 × Memory (SPI FRAM 1MB 1.8V)
- 1 × MS5611 Barometric Sensor

Product links

- [Reference Manual](#)
- [Technical Specifications](#)
- [Customize in Geppetto](#)
- [Check Arrow Stock](#)
- [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](#)
- [uEnv-geppetto.txt](#)
- [dt/Nptnqeiv.dtb](#)
- [Firmware](#)
- [Bootloader](#)
- [Firmware \(.px4\)](#)
- [CAD Drawing \(DXF\)](#)
- [Geppetto@Workspace](#)

