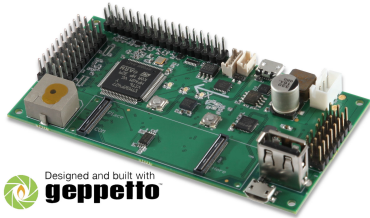


AeroCore 2 for DuoVero Product datasheet

PKG40178

USD149.00

AeroCore 2 for DuoVero



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 DuoVero series computers-on-module, AeroCore gives users a complete Linux installation on a PX4-compatible platform.

Compatible with: the DuoVero Family of COMs, the Pre-Go, and the Pre-Go PPP.

Customize Your Board

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

Product Features

Input/output	
24-Pin Header	8xPWM Outputs
40-pin header	GPIO/Breakout and Power
6-Pin Header	Cortex-M4 SPI Breakout
Robotics	
Accelerometer	3-Axis Accelerometer + 3-Axis Magnetometer
Barometer	Included
Controller Area Network (CAN)	For use in applications employing the CAN serial communication physical layer in accordance with the ISO 11898 standard.
GPS	U-Blox NEO-7M GPS Receiver
Gyroscope	3-Axis Angular Rate Sensor
Inter-board connector	
Board-To-Board Connector	2 x 70-pin Hirose DF40 Connectors
Mechanical	
Length	96.5 mm L
Width	50.1 mm W
Processor	
Processor	ARM Cortex-M4 Microcontroller
Product series	
Product Family	DuoVero
Communications	
USB Console Port	FTDI USB-UART
Usb	
USB OTG	USB Micro-AB Connector

Other connector

2 × Low-Profile 20-Pin Header

Mating connector

1 × U.FL Connector

What's included

1 × AeroCore for Overo

Key component

1 × FTDI FT4232H Quad USB - Serial

1 × Texas Instruments TPS62111 Step-Down Converter

1 × ST L3G4200D 3-Axis Gyroscope

1 × Memory (SPI FRAM 1MB 1.8V)

1 × MS5611 Barometric Sensor

1 × LSM303D 6-Axis Accelerometer

Product links

- [Reference Manual](#)
- [Technical Specifications](#)
- [Check Arrow Stock](#)
- [Firmware](#)
- [Bootloader](#)
- [Firmware \(.px4\)](#)
- [CAD Drawing \(DXF\)](#)
- [Geppetto®Workspace](#)

