

Gumstix Raspberry Pi CM4 + Pixhawk FMUv6U Product datasheet

PKG900000001531

USD180.00



Product Features

Position and motion sensing	
Accelerometer	Three-axis accelerometer,
Barometer	Pressure altimeter measures altitude.
Gyroscope	Three-axis inertial measurement of angular rates.
Magnetometer	Three-axis magnetic sensor.
Camera	
Camera Connector	Vertical cable orientation connectors for two Raspberry Pi Cameras.
Robotics	
Controller Area Network (CAN)	5Mbps High-Speed CAN Transceiver
Storage	
MMC/SD slot	microSD card slot
Processor	
Processor	Coral Edge TPU connected via USB3 (PCIe)
Memory	
RAM	256kb FRAM
General	
Raspberry Pi Compatible	Compatible with the Raspberry Pi family.
Usb	
USB Type-C	Reversible USB connector.

The RPi CM4 + Pixhawk FMUv6U is backordered due to high demand, To get your order into the manufacturing queue submit your order ASAP.

The Gumstix Raspberry Pi CM4 + Pixhawk FMUv6U brings together 3 powerful compute devices. With the Raspberry Pi CM4 module, Coral EdgeTPU, and the ST Micro STM32H7 MCU, along with support hardware for MAVs, rovers and other robotics platforms, designing TensorFlow-assisted autonomous vehicles has never been so accessible.

The CM4 + Pixhawk FMUv6U is one of the first boards conforming to the Pixhawk v6 specification for Flight Management Units (FMUs), including on-board sensor bank, standard Pixhawk data and power connectors, octal PWM outputs, and firmware support.

The CM4+FMUv6U Autopilot features single-connection programming and debugging. Power the PCB, program the FMU's firmware, or monitor their serial consoles from the same USB Type-C connection.

Features Include: * Raspberry Pi CM4 connector * Dual raspberry Pi Camera connectors * Serial console over USB * USB Type-C power delivery * STMicro STM32H753 MCU * Pixhawk GPS, analog power, RC, and CAN connectors * 8 PWM outputs * On-board accelerometer, magnetometer and gyroscope * On-board barometer * Coral Edge TPU

What's included

1 × CM4 Pixhawk 6 Mini

Key component

1 × microSD Card Slot With Isolated CD Pins

1 × USB Type-C Port

2 × FTDI FT232RQ USB UART Interface

1 × BMM150 Series 3.6 V Surface Mount Three-Axis Geomagnetic Sensor - WLCSP-12

1 × MCU 32-Bit STM32 ARM Cortex M7 RISC 2MB Flash 1.8V/2.5V/3.3V 176-Pin LQFP Tray

2 × FPC CONNECTOR 15POS 1mm Vertical

2 × Hirose 100-pin DF40 connector, 3mm stack height

1 × Google Coral Accelerator Module

Product links

- [Github](#)
- [Buy On Mouser Electronics](#)
- [Buy On Arrow Electronics](#)
- [Technical Specifications](#)
- Geppetto@Workspace

