Gumstix Raspberry Pi CM4 Pixhawk 6 Mini
Product datasheet

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PKG900000001531   *USD180.00*

The GUMSTIX RASPBERRY PI CM4 PIXHAWK 6 MINI brings together 3 powerful compute devices. With the Raspberry Pi CM4 module, the Google Coral TPU, and the ST Micro STM32F7 MCU, along with support hardware for MAVs, rovers and other robotics platforms, designing TensorFlow-assisted autonomous vehicles has never been so accessible.

The ˍCM4 Pixhawk 6 Miniˍ is one of the first boards conforming to Pixhawk's 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 ˍCM4 Pixhawk 6 Miniˍ features single-connection programming and debugging. Power the PCB, flash the CM4's MMC, program the FMU's frimware, 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 * Google Coral G313 TPU

Product Features

Position and motion sensing	
Accelerometer	6 Axis Accelerometer
Magnetometer	Three-axis magnetic sensor.
Camera	
Camera Connector	Vertical cable orientation connector for Raspberry Pi Camera.
Robotics	
Controller Area Network (CAN)	5Mbps High-Speed CAN Transceiver
Storage	
MMC/SD slot	microSD card slot
Processor	
Processor	Google Edge TPU ML accelerator
Memory	
RAM	256kb FRAM
Usb	
USB Type-C	Reversible USB connector.
USB Device	USB Type-C Connector

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-

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

Product links

- Customize in Geppetto
- Technical Specifications
- Geppetto®Workspace