

VMX-pi transforms a Raspberry Pi general-purpose computer into an Intelligent Robot Processor / Controller —at a groundbreaking low price point.

Key specifications include:

- 30 Digital IO Channels
- 4 12-bit Analog IO Channels
- Quadrature Encoder decode
- 9-axis navX-technology IMU w/200Hz update rate
- Digital Communication Interfaces including CAN, SPI, I2C and UART
- Hi-speed internal communication with Raspberry Pi
- 12V DC input power supply for Raspberry Pi and external sensors at 5V and 3.3V DC.
- Real-time Clock and highresolution sensor timestamps
- Supported by VMX Robotics Toolkit: • Vision Processing and Video
 - Streaming ToolsReal-time Linux for low-
 - latency control applications
 - Robot Operating System (ROS) Node and Master
 Network Time Server
- Locking connectors
- Design files for 3d-printed enclosure
- VMX-pi Aero: adds a barometric pressure sensor for altitude measures



VMX-pi Vision/Motion Processor & Robotics Controller

Supercharge your robot with:

featuring

navX-

technology

- Vision Processing
- Motion Processing

BENEFITS

- **Control** your robot with:
- Digital I/O and PWM Generation
- **Connect** your robot with:
- Wired Communication Interfaces
- Wireless Communication Interfaces
- Quadrature Encoders
- Analog Inputs

Synchronize multiple robots with:

 Battery-backed Real-time Clock & Network Time Server

E-mail: marketing@kauailabs.com www.kauailabs.com/store

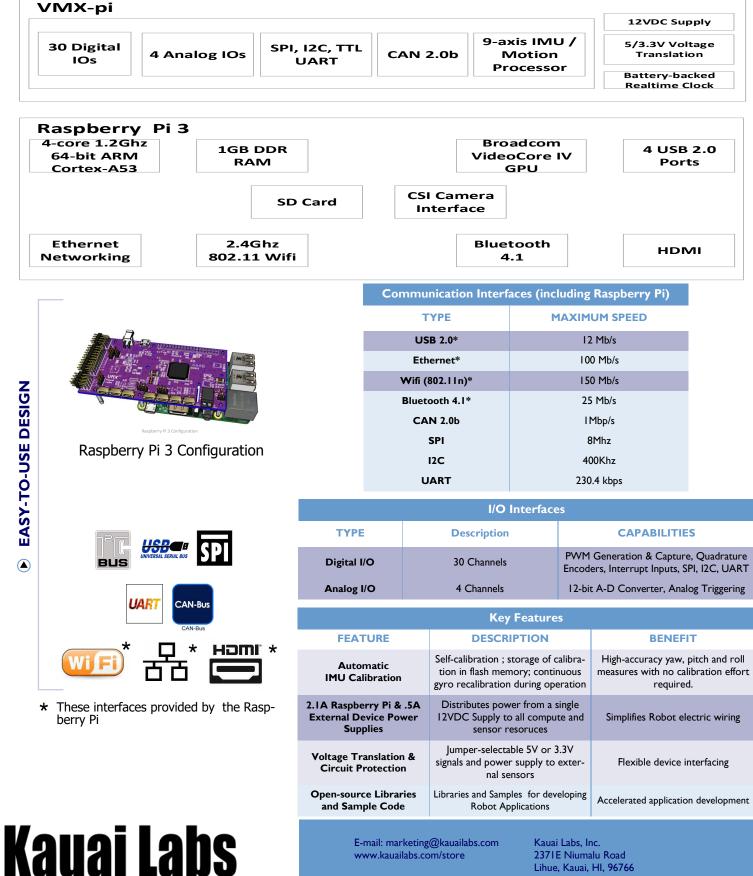
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OVERVIEW

FEATURES



• Technical Specifications



NAUAI LAUS Build Better Robots[®]