



FRC Training Bot

Provides an Affordable Solution to Teaching Robotics

Controller:

- Powered by Raspberry Pi 4 (4GB)
- Mimics the roboRIO
- Supports CAN bus
- Uses WPILIB
- Built in radio
- Built in NavX
- Supports C++
- Supports Java

Motor Driver:

- Supports up to 4 DC Motors
- Each motor can handle 20A Continuous
- Acts as PDP and will power the VMX Controller
- Includes built in 32Bit LED controller to control two strips of LED's

Included in the box:

- Partially assembled robot
- 2 x 12V 3000mAh batteries
- Battery charger
- Logitech F310 controller
- Zero to moving curriculum
- Assorted cables and connectors
- Extra mounting hardware

Optional Addons:

- Elevator Lift
- Intake
- Shooter

Main Specs:

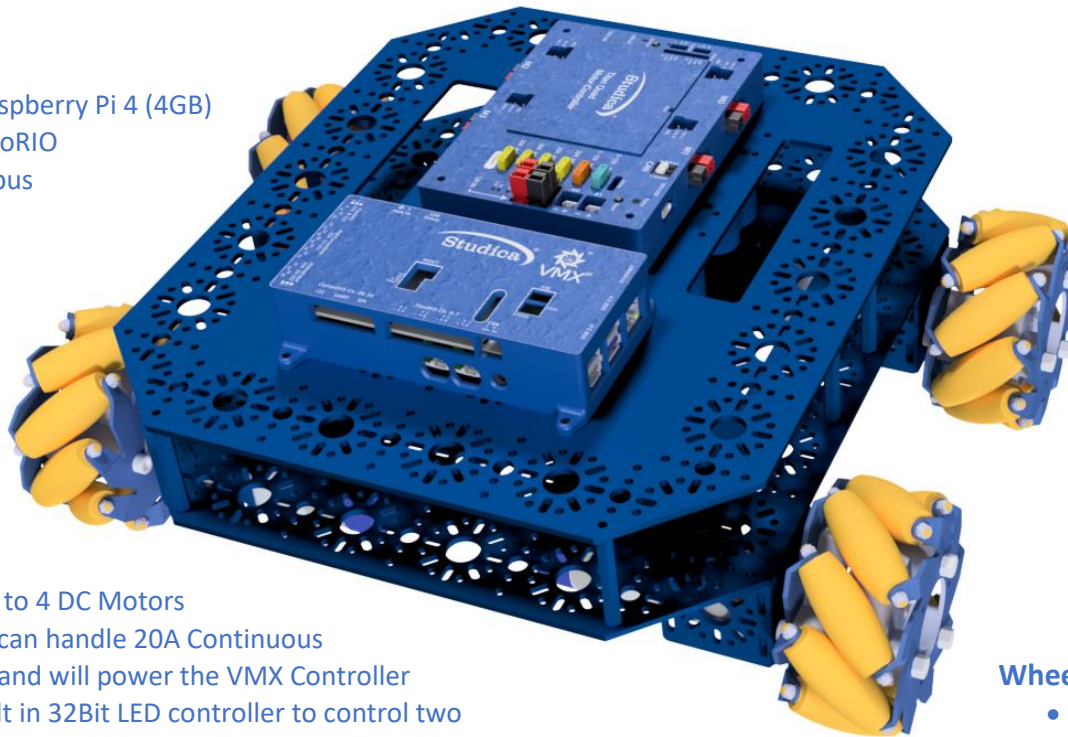
- Controller: Studica VMX Robotics Controller
- Motor Driver: Studica Titan Quad
- Motors: Studica Maverick
- Wheels: Studica 100 mm Mecanum with roller bearings
- Optional addons

Motors:

- Voltage: 12 VDC
- Gear Ratio: 61:1
- Speed: 100 RPM
- Stall Torque: 902 oz/in
- Stall Current: 13A
- Built in Encoder: Yes

Wheels:

- 100 mm Mecanum Wheels
- Integrated 6mm hub
- Each roller has 2 bearings
- Rollers have a 50A durometer to give extra grip



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