



Control System Overview

AI. 1.20

Power
12VDC Main
GND

Data
22 AWG Minimum
GND SIG1* 3.3/5V SIG2*

Wire Gauge
Minimum Gauge per connection shown
18 AWG 22 AWG

I/O Connector Interfaces
USB-A Micro-B Mini-B XT-30

* SIG1 and SIG2 are utilized differently depending on the communication protocol used in a specific connection.
Learn more about each protocol's pinouts and the FTC control system at:
ftc-docs.firstinspires.org

Keep in Mind

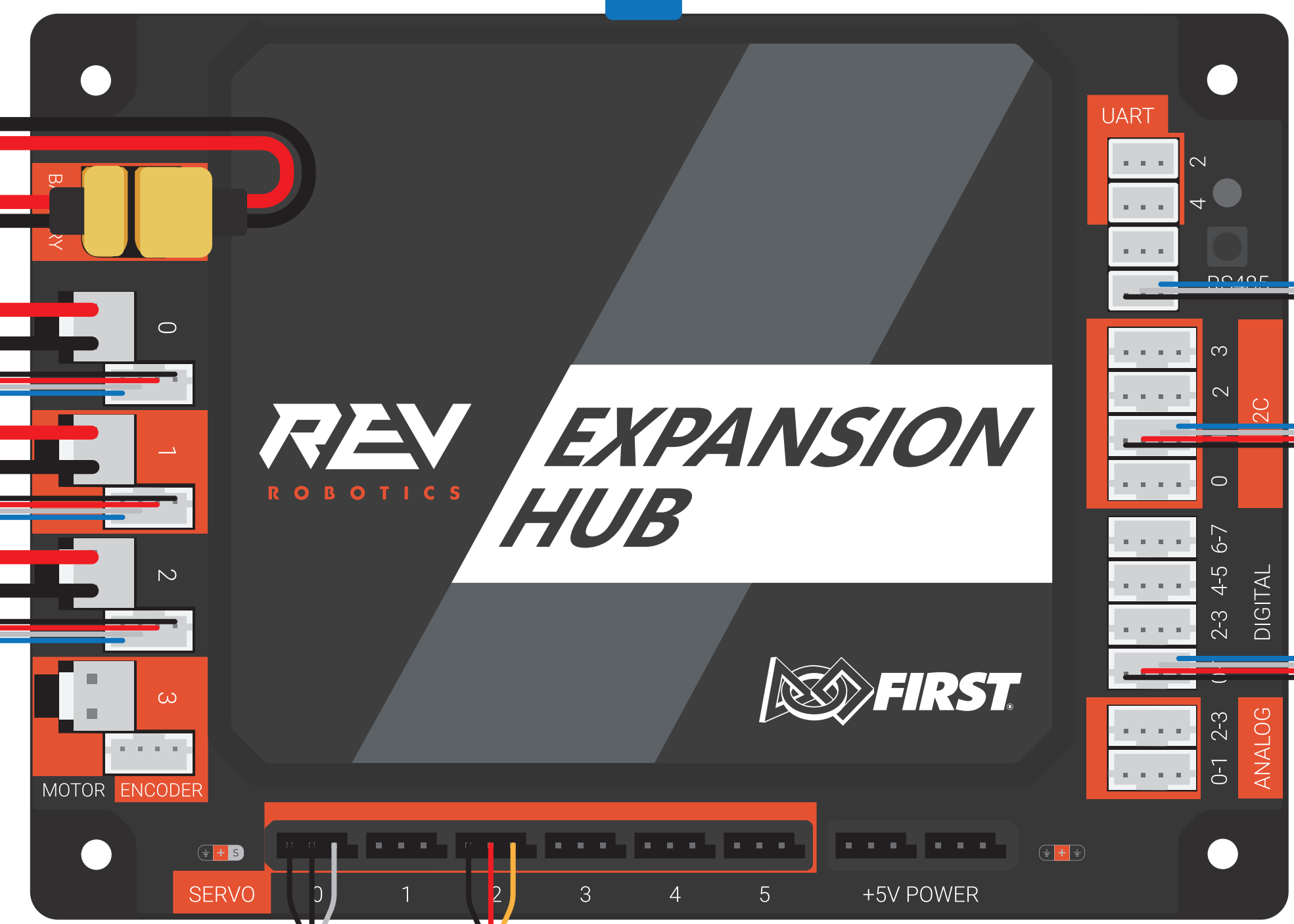
A1 - Phone Configuration - Basic



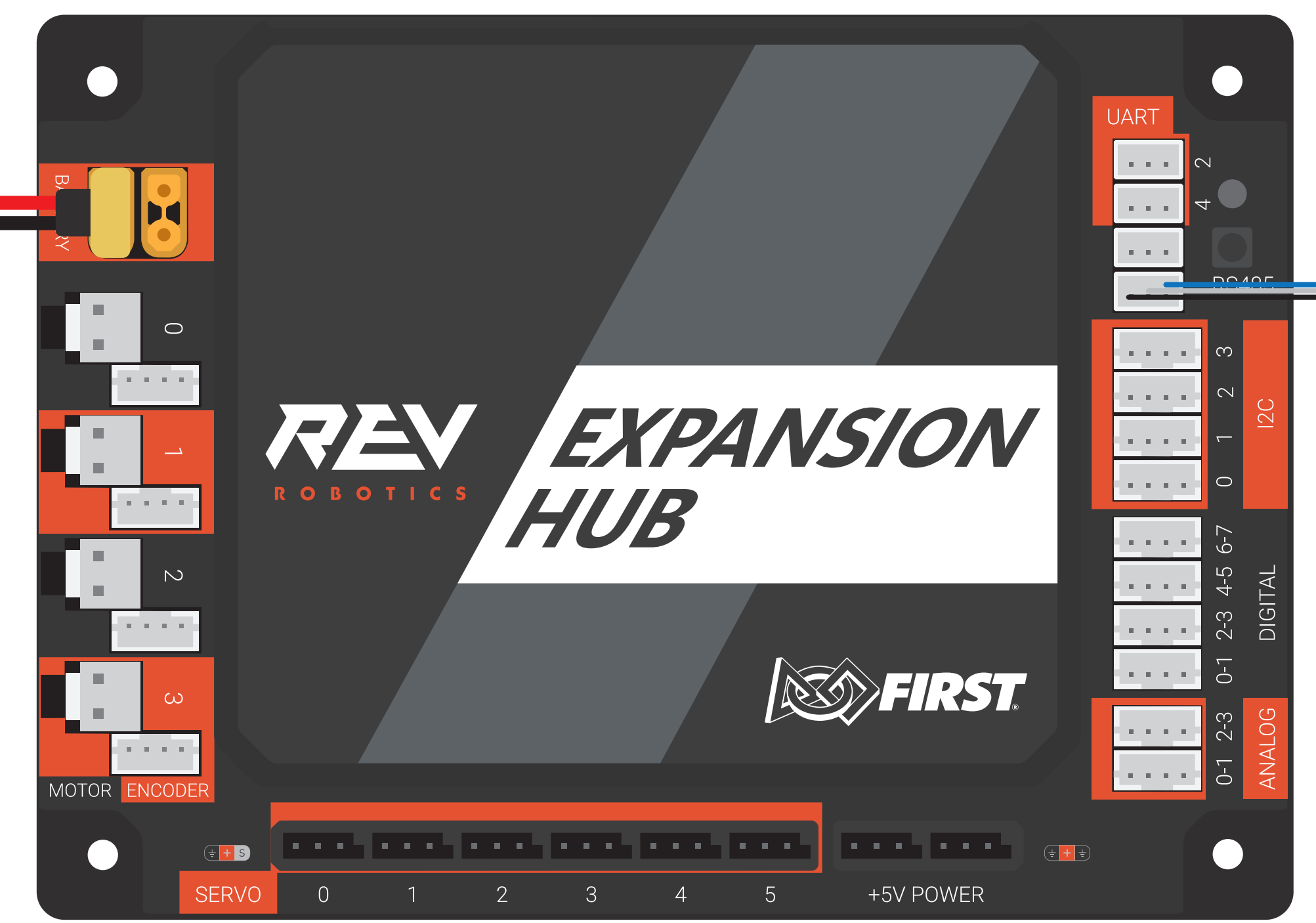
FTC-Legal Android Phone
Motorola E5 Play shown
Running FTC Robot Controller App
Vision uses rear camera

Micro-USB OTG Adapter

Primary REV Expansion Hub



Auxiliary REV Expansion Hub (Optional)



Robot Battery
REV-31-1302 shown
20A ATM Fuse Installed

Power Switch
Must be labeled
REV-31-1387 shown

Power



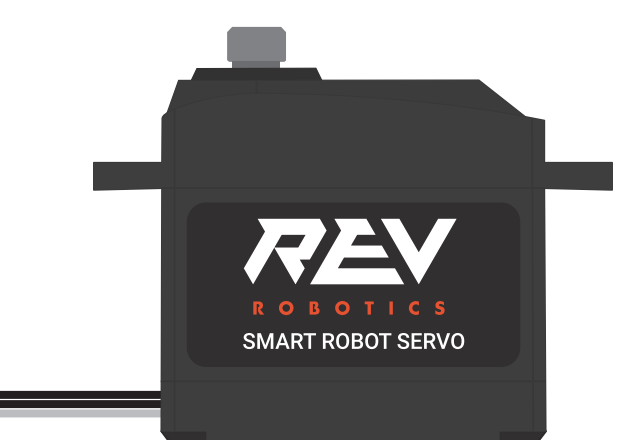
REV HD Hex Motor
2 Stage Ultr planetary Configuration shown

4-Pin JST-PH Sensor Cable (REV-31-1407)

4-Pin JST-PH to Molex SL Cable (W45066)

JST-VH to Powerpole Cable (W45066)

TETRIX® MAX TorqueNADO® Motor
REV JST-PH sensor cables are incompatible with this motor
Use supplied sensor cable

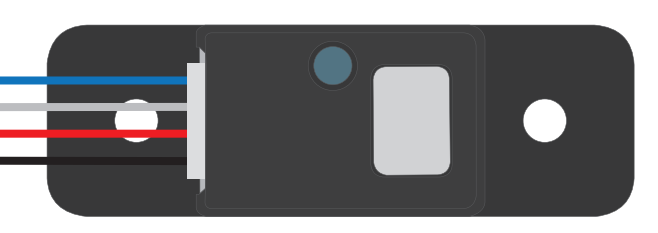


REV Smart Robot Servo
Configure with SRS Programmer

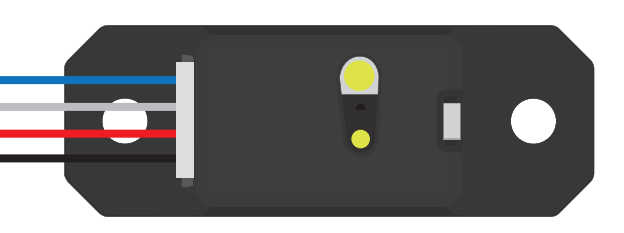


TETRIX® Servo
Standard scale version shown

Servos

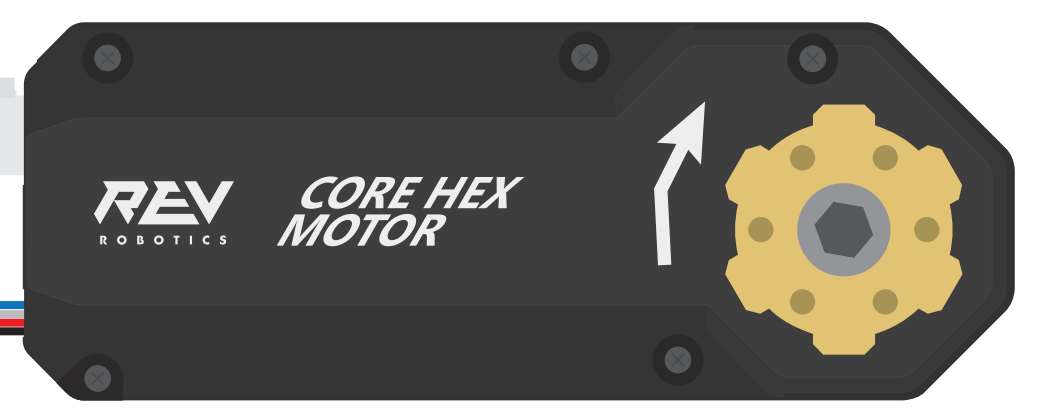


REV Touch Sensor
Config on (N+1) Channel



REV Color Sensor V3 (REV-31-1557) shown

Sensors



REV Core Hex Motor
REV-41-1300

Motors