SparkFun ESP32 Thing Plus (USB-C) (WRL-20168)

**ESP32-WROOM**
- Dual-Core Xtensa 32-bit LX7
- Up to 240MHz
- 520KB SRAM
- 16MB SPI Flash

**Power**
- ESP32 VCC Range: 3.0V-3.6V
- VBAT: Direct to battery (and charger)
- VUSB: Direct to USB (5V)
- 3V3: Direct to 3.3V regulator (700mA)
- ESP32-S2 Current Consumption:
  - WiFi: 380mA (peak)
  - Light-Sleep: 800µA
  - Deep-Sleep: 10-150µA

**Power Control**
- EN pin - Power for board
- GPIO00 - Power to Qwiic Connector

**Wireless**
- WiFi: 802.11 b/g/n (up to 150Mbps)
- WPA/WPA2/WPA2-Enterprise/SPS
- Bluetooth: Bluetooth 4.2/BLE

**Other**
- Temp sensor (-40°C to 125°C)
- Hall Sensor
- SD/SDIO/MMC Host Controller
- μSD card slot CS: GPIO05 SS
- CAN Bus

*On datasheet, but may not be supported yet

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**Multiplexed I/Os allow up to**
- 13x 12-bit ADC Channels
- 3x SPI Interfaces
- 3x UART Interfaces
- 2x I2C Interfaces
- 2x I2S Interface
- 16x 20-bit PWM Channels
- 2x 8-bit DACs
- 8x Capacitive Touch Inputs

**JST Connector**
- for LiPo Batt. (Single-Cell)

**Qwiic Connector**
- (Power enabled by GPIO0)

**Boot Button**: GPIO 0
**Reset Button**: GPIO 0

**Status LED**: Blue
**Charge LED**: Yellow
**Power LED**: Red