SparkFun QuickLogic Thing Plus - EOS S3
DEV-17273

Power and Logic Levels
VUSB: direct to USB (5V)
VBAT: direct to LiPo battery (and Microchip MCP73831 charger)
3V3: Output of TI TPS62821 regulator (3.3V/1A)
GPIO logic levels: 3.3V

EOS S3 MCU + eFPGA SoC
- Arm® Cortex®-M4F Microcontroller
- up to 80 MHz operating frequency
- up to 512 Kb SRAM
- Embedded FPGA (eFPGA)
- 2400 effective logic cells
- 64 Kb RAM

Storage
- GigaDevice GD25Q16CEIGR
- 16 Mbit SPI NOR flash memory

Interfaces
- 1x ADC, 1x UART, 1x I²C, 2x SPI, 1x I²S, 1x PDM

Sensors
- STMicro LIS2DH12TR [0b00110000, 0x18]
- I²C 3-Axis 12-bit Accelerometer
- Vesper VM3011
- Digital Pulse Density Modulation Mic w/ Wake-on-Sound

User Interfaces
- RST Button
- USR Button (x)

LEDs
- RGB LED
- Red (22), Green (21), Blue (18)
- Charge LED

Notes
* - Header pin 1 can be referenced by either the square PTH pad polarity marker [1]
  - Close bootstrap jumper when using J-Link programmer, otherwise keep open