Adafruit MatrixPortal M4 Power https://www.adafruit.com/product/4745 GND Control CircuitPython Name Arduino Name GPTO INT DAC/AREF The Microchip (nee Atmel) SAMD51 is an ARM Cortex-M4F running at 120 MHz with ADC RESET SERCOM 192 or 256kB on-chip SRAM, up to 1MB Flash memory and built in USB. All GPIO SERCOM Alt is 3.3V in/out max unless otherwise Timer stated. SERCOMs can be used as UART (TX SOF 1KHZ TC7[0]-S5.2 S1.2 6 PB22 2 BUTTON\_UP Timer Alt on SERCOM pad 0, RX on any pad), I2C (SDA on pad 0, SCL on pad 1), or SPI (SCK on pad 1, MOSI on pad 0 or 3, MISO Timer Alt2 Special **I2S** on any pad remaining) TC7[1]-S5.3-S1.2-7-PB23-3-BUTTON DOWN-PCC MTX\_G1 8 PB01 1 A0[13] S5.3-TC7[1] TC7[0]-S5.2 TCC2[2]) TC6[0]-S5.0 2 PB02 9 MTX B1 TC6[1] S5.1 3 PB03 10 MTX R2 MTX\_G2 11 PB04 4 A1[6] MTX\_B2 S4.0-TC4[0] 7 PB07 17 MTX ADDRA O MTX ADDRD 20 PB15 15 TC5[1] TCC4[1] DATA9 TC4[1]-S4.1 6 PB06 14 MTX CLK MTX LAT 15 PB14 14 TC5[0]-TCC4[0] DATA8 12 PB12 16 MTX 0E MTX ADDRE 21 PB13 13 TC4[1] TCC3[1] TC TCC4[1] TC0[1] S5.0 S7.1 15 PB31 5 SDA TCC4[0] TC0[0] S5.1 S7.0 14 PB30 6 SCL ESP32 WiFi Co-processor Control VOUTO 2 PA02 22/A0 A0 -ESP\_CS 33 PB17 1 S5.1 TC6[1] TCC3[1] ESP GPI00 29 PA20 4 S5.2 S3.2 TC7[0] TCC1 41 FS0 DATA4 DATA PA22 6 S3.0 S5.1 TC4[0] TCC1[6] ESP\_RESET 30 PA21 5 S5.3 S3.3 TC7[1] TCC1[5] DATA 32 PA18 2 S1.2 S3.2 TC3[0] TCC1[2] DATA2 ESP\_TX 28 PA13 13 S2.1 S4.0 TC2[1] TCC0 7 DEN2 DEN1 ESP\_RX 27 PA12 12 S2.0 S4.1 TC2[0] TCC0 6 A0[5] A0[4] A0[6] A0[7] 34 PA16 0 S1.0 S3.1 TC2[0] TCC1[0] DATAO 36 PA19 3 S1.3 S3.3 TC3[1] TCC1[3] DATA3 MISO 35 PA17 1 S1.1 S3.0 TC2[1] TCC1[1] T DATA1 LED 13 PA14 14 S2.2 S4.2 TC3[0] TCC2[0] TCC1[2] CLK NEOPIXEL 4 PA23 7 S3.1 S5.0 TC4[1] TCG 70 TCC0[3] SOF 1KHZ ES1 DATA7 ACCELEROMETER SCL 6 PB30 14 S7.0 S5.1 TC0 0 TCC4 0 TCC0 6 SWD0 ACCELEROMETER\_SDA 5 PB31 15 S7.1 S5.0 TC0[1] TCC4[1] TCC0[7 ACCELEROMETER INTERRUPT 39 PA27-11