Adafruit Metro M0 Express

https://www.adafruit.com/product/3505

Legend:
- Power
- GND
- Control
- CircuitPython Name
- Arduino Name
- GPIO
- INT
- DAC/AREF
- ADC
- Touch
- SERCOM
- SERCOM Alt
- Timer
- Timer Alt
- Special

The Microchip (nee Atmel) SAMD21 is an ARM Cortex-M0+ running at 48 MHz with 32kB on-chip SRAM, 256KB Flash memory and built in USB. All GPIO is 3.3V in/out max unless otherwise stated. SERCOMs can be used as UART (TX on SERCOM pad 0 or 2, RX on any pad), I2C (SDA on pad 0, SCL on pad 1), or SPI (SCK on pad 1 or 3, MOSI on pad 0 or 3 (SCK on pad 1) or pad 0 or 2 (SCK on pad 3), MISO on any pad remaining)

DCSWITCH

DC Jack

On TX RX L

Reset

NEOPIXEL — 40 — PA30 — 10 — S1.2 — TCC1[0] — SWCLK

SCL	21	PA23	7		S3.1	S5.1	TC4[1]	TCC0[5]
SDA	20	PA22	6		S3.0	S5.0	TC4[0]	TCC0[4]
AREF								
GND								
D13	13	PA17	1		S1.1	S3.1	TCC2[1]	TCC0[7]
D12	12	PA19	3		S1.3	S3.3	TC3[1]	TCC0[3]	I2S/SD0
D11	11	PA16	0		S1.0	S3.0	TCC2[0]	TCC0[6]
D10	10	PA18	2		S1.2	S3.2	TC3[0]	TCC0[2]
D9	9/A7	PA07	7	AIN7	Y5		S0.3	TCC1[1]	I2S/SD0
D8	8/A6	PA06	6	AIN6	Y4		S0.2	TCC1[0]	

D7	7	PA21	5		S5.3	S3.3	TC7[1]	TCC0[7]	I2S/FS0
D6	6	PA20	4		S5.2	S3.2	TC7[0]	TCC0[6]	I2S/SCK0
D5	5	PA15	15		S2.3	S4.3	TC3[1]	TCC0[5]	
D4	4	PA08	NMI	AIN16	S0.0	S2.0	TCC0[0]	TCC1[2]	I2S/SD1
D3	3	PA09	9	AIN17	S0.1	S2.1	TCC0[1]	TCC1[3]	I2S/MCK0
D2	2	PA14	14		S2.2	S4.2	TC3[0]	TCC0[4]	
D1	1	PA10	10	AIN18	S0.2	S2.2	TCC1[0]	TCC0[2]	I2S/SCK0
D0	0	PA11	11	AIN19	S0.3	S2.3	TCC1[1]	TCC0[3]	I2S/FS0

- 3.3V
- RESET
- 3.3V
- 5V
- GND
- GND
- VIN

IOREF / RST / 3.3 / 5V / GND / GND / VIN

	Y0	AIN0	VOUT	2	PA02	14/A0	A0
TC4[0]	S4.0	Y14	AIN2	8	PB08	15/A1	A1
TC4[1]	S4.1	Y15	AIN3	9	PB09	16/A2	A2
TCC0[0]	S0.0	Y2	AIN4	VREFB	4	PA04	17/A3	A3
TCC0[1]	S0.1	Y3	AIN5	5	PA05	18/A4	A4
TC6[0]	S5.0	Y8	AIN10	2	PB02	19/A5	A5

	TCC0[6]	TCC2[0]	S4.0	S2.0	12	PA12	22	MISO
I2S/SCK1	TCC0[5]	TC5[1]	S4.3		11	PB11	24	SCK
							RESET

5V					
MOSI	23	PB10	10	S4.2	TC5[0]	TCC0[4]	I2S/MCK1
GND					