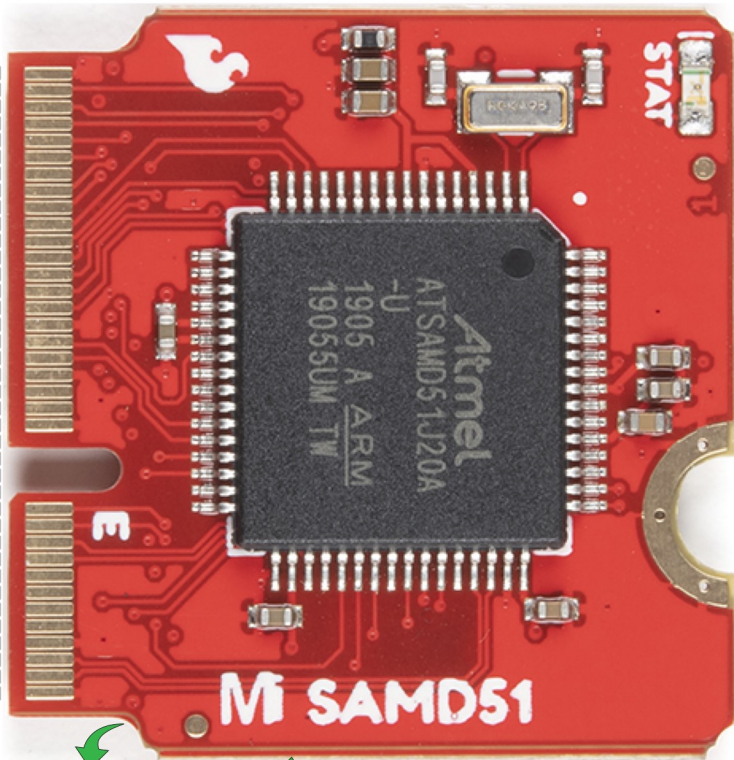


# MicroMod SAMD51 Processor Board

## DEV-16791

		GND	75
	D7	G5	73
	D8	G6	71
	D9	G7	69
	D10	G8	67
	D11	G9	65
			63
	47	SPI_CIPO	61
	45	SPI_COPI	59
	46	SPI_SCK	57
	48	SPI_CS#	55
36	UART_TX2	I2C_SCL1	53
37	UART_RX2	I2C_SDA1	51
	21	A4	49
20	A3	PWM1	47
		GND	45
	38	G10	43
	39	G11	41
		GND	39
			37
			35
		GND	33
		Module Key	31
		Module Key	29
		Module Key	27
		Module Key	25
		SWDIO	23
		SWDCK	21
33		UART_RX1	19
32		UART_TX1	17
			15
			13
			11
			9
		GND	7
30	USBHOST D-	USB D-	5
31	USBHOST D+	USB D+	3
		GND	1



74	3.3V_IN		
72	3.3V		
70			
68			
66			
64			
62			
60			
58	I2S_MCLK	43	
56	I2S_OUT	40	
54	I2S_IN	41	
52	I2S_WS	44	
50	I2S_SCK	42	
48	G4	D6	
46	G3	D5	
44	G2	D4	
42	G1	D3	
40	G0	D2	
38	A1	18	
36	GND		
34	A0	DAC	17
32	PWM0	A1	19
30	Module Key		
28	Module Key		
26	Module Key		
24	Module Key		
22	UART_TX2	I2C_SCL1	36
20	UART_RX2	I2C_SDA1	37
18	D1	D1	
16	I2C_INT#	D12	
14	I2C_SCL	34	
12	I2C_SDA	35	
10	D0	D0	
8	HOST_ENABLE	29	
6	RESET#		
4	3.3V_EN		
2	3.3V		

Pin Number	Power	GND	Control
Digital Pin	ADC / DAC	PWM	Serial UART
I <sup>2</sup> C	SPI	USB	SWD
Audio	General/Bus	Arduino	

**Power**  
VCC: 3.3V  
I/O Logic Levels: 3.3V

**SAMD51J20A**  
32-bit ARM Cortex-M4F MCU  
Up to 120MHz CPU speed  
Up to 6 SERCOM Channels  
1MB Flash Memory  
256kB SRAM  
12-bit ADC  
12-bit DAC  
UF2 bootloader  
Programmed with Arduino

**W25Q128JVPIM**  
128Mb (16MB) of external flash memory

**LEDs**  
User (D13, LED\_BUILTIN): Blue

**Serial**  
Use Serial for USB connection  
Use Serial1 for hardware serial UART connection

**Bootloader Mode**  
Double tap reset button on MicroMod carrier board for bootloader mode.