ARDUINO

LED_BUILTIN (D13)   Power

SCK	PE2	D13
		+3V3
	PD7	AREF
AIN[3]	PD3	A0	D14
AIN[2]	PD2	A1	D15
AIN[1]	PD1	A2	D16
AIN[0]	PD0	A3	D17
SDA	PA2	A4	D18
SCL	PA3	A5	D19
AIN[4]	PD4	A6	D20
AIN[5]	PD5	A7	D21
		+5V
		RESET
		GND
		VIN

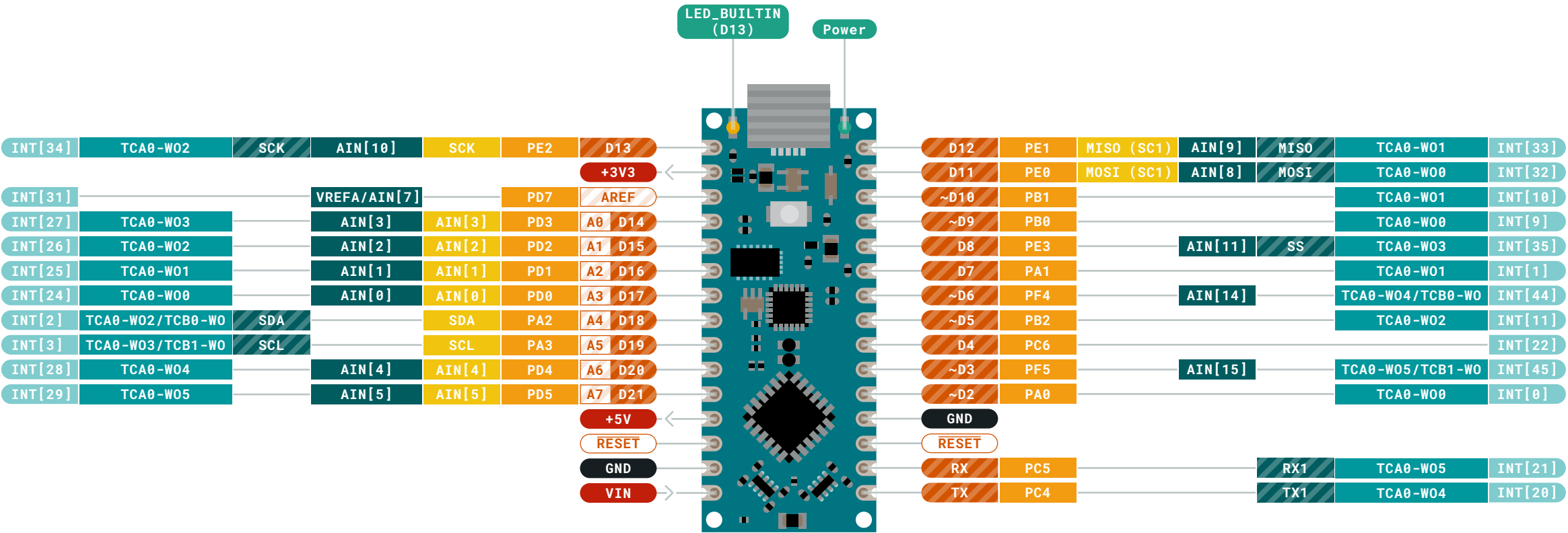| D12 | PE1 | MISO (SC1) |
D11	PE0	MOSI (SC1)
~D10	PB1
~D9	PB0
D8	PE3
D7	PA1
~D6	PF4
~D5	PB2
D4	PC6
~D3	PF5
~D2	PA0
GND
RESET
RX	PC5
TX	PC4

Legend

- ■ Ground
- ■ Power
- ■ LED
- ■ Internal Pin
- ■ SWD Pin
- ▨ Digital Pin
- ▨ Analog Pin
- ▢ Other Pin
- ■ Microcontroller's Port
- ■ Default

⚠ **MAXIMUM** current per pin 40mA, 20mA recommended
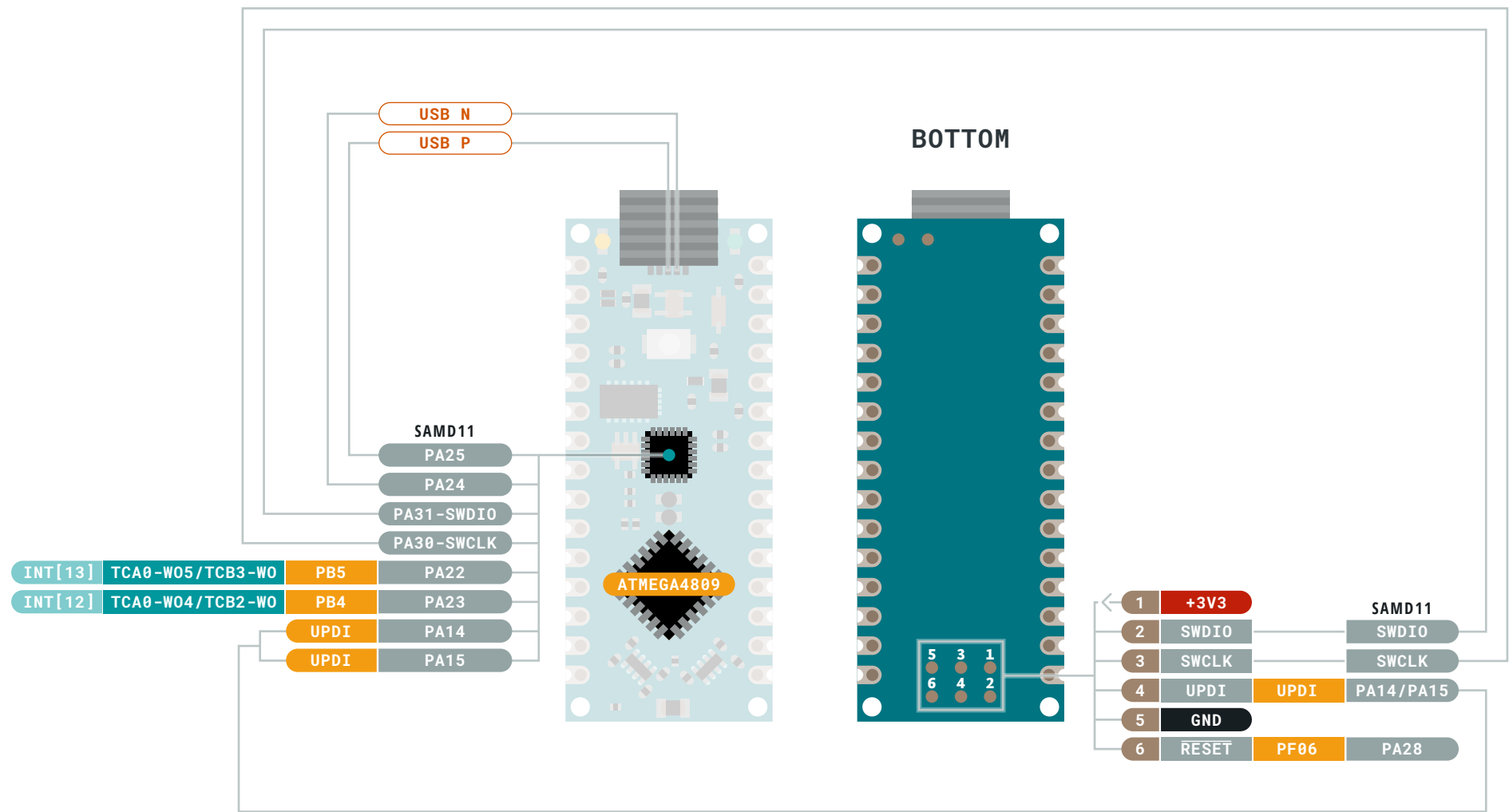
⚠ **MAXIMUM** current 200mA for the entire package

⚠ The total current of each port power group **should not exceed** 100mA

VIN 7-21 V input to the board.

LED_BUILTIN (D13)

Power

INT[34]	TCA0-WO2	SCK	AIN[10]	SCK	PE2	D13
INT[31]			VREFA/AIN[7]		PD7	AREF
INT[27]	TCA0-WO3		AIN[3]	AIN[3]	PD3	A0 D14
INT[26]	TCA0-WO2		AIN[2]	AIN[2]	PD2	A1 D15
INT[25]	TCA0-WO1		AIN[1]	AIN[1]	PD1	A2 D16
INT[24]	TCA0-WO0		AIN[0]	AIN[0]	PD0	A3 D17
INT[2]	TCA0-WO2/TCB0-WO	SDA		SDA	PA2	A4 D18
INT[3]	TCA0-WO3/TCB1-WO	SCL		SCL	PA3	A5 D19
INT[28]	TCA0-WO4		AIN[4]	AIN[4]	PD4	A6 D20
INT[29]	TCA0-WO5		AIN[5]	AIN[5]	PD5	A7 D21

+3V3
+5V
RESET
GND
VIN

D12	PE1	MISO (SC1)	AIN[9]	MISO	TCA0-WO1	INT[33]
D11	PE0	MOSI (SC1)	AIN[8]	MOSI	TCA0-WO0	INT[32]
~D10	PB1				TCA0-WO1	INT[10]
~D9	PB0				TCA0-WO0	INT[9]
D8	PE3		AIN[11]	SS	TCA0-WO3	INT[35]
D7	PA1				TCA0-WO1	INT[1]
~D6	PF4		AIN[14]		TCA0-WO4/TCB0-WO	INT[44]
~D5	PB2				TCA0-WO2	INT[11]
D4	PC6					INT[22]
~D3	PF5		AIN[15]		TCA0-WO5/TCB1-WO	INT[45]
~D2	PA0				TCA0-WO0	INT[0]

GND
RESET

| RX | PC5 | | RX1 | TCA0-WO5 | INT[21] |
| TX | PC4 | | TX1 | TCA0-WO4 | INT[20] |

Ground
Power
LED
Internal Pin
SWD Pin

Digital Pin
Analog Pin
Other Pin
Microcontroller's Port
Default

Analog
Communication
Timer
Interrupt
Sercom

⚠ **MAXIMUM** current per pin 40mA, 20mA recommended

⚠ **MAXIMUM** current 200mA for the entire package

⚠ The total current of each port power group **should not exceed** 100mA

VIN 7-21 V input to the board.

BOTTOM

USB N

USB P

SAMD11

| PA25 |
| PA24 |
| PA31-SWDIO |
| PA30-SWCLK |

INT[13]	TCA0-WO5/TCB3-WO	PB5	PA22
INT[12]	TCA0-WO4/TCB2-WO	PB4	PA23
		UPDI	PA14
		UPDI	PA15

ATMEGA4809

| 5 | 3 | 1 |
| 6 | 4 | 2 |

SAMD11

1	+3V3		
2	SWDIO		SWDIO
3	SWCLK		SWCLK
4	UPDI	UPDI	PA14/PA15
5	GND		
6	RESET	PF06	PA28

Ground
Power
LED
Internal Pin
SWD Pin

Digital Pin
Analog Pin
Other Pin
Microcontroller's Port
Default

Analog
Communication
Timer
Interrupt
Sercom

⚠ **MAXIMUM** current per pin 40mA, 20mA recommended

⚠ **MAXIMUM** current 200mA for the entire package

⚠ The total current of each port power group **should not exceed** 100mA

VIN 7-21 V input to the board.