Arm Controller Connection:

For Motor Driver 1:

INB: PA9

INA: PA10

PWM: PC8 (TIM3_CH3 or TIM8_CH3)

ENA: PC7

ENB: PC6

Current Sense: PC2 (ADC12_IN8)

For Motor Driver 2:

INB: PC9

INA: PA8

PWM: PB15 (TIM15_CH1)

ENA: PB14

ENB: PB13

Current Sense: PC3 (ADC12_IN9)

For 2x Connector DUPONT(Pin 1 is indicated by square hole)

J4:

Pin 1: Slave Select Pin/PC12

Pin 2: General Pins, can be selected by bridging jumper:

SCK/PB3

PB5 (TIM3_CH2)

Pin 3: General Pins, can be selected by bridging jumper:

PB9 (TIM17_CH1 or TIM4_CH4)

MISO/PB4

PA6 (ADC2_IN3)

Pin 4: Power Selection (either 5V or 3V3)

Pin 5: GND

J5:

Pin 1: Slave Select Pin/PC11

Pin 2: General Pins, can be selected by bridging jumper:

SCK/PB3

PB6 (TIM4_CH1)

Pin 3: General Pins, can be selected by bridging jumper:

PB8 (TIM16_CH1 or TIM4_CH3)

MISO/PB4

PA7 (ADC2_IN4)

Pin 4: Power Selection (either 5V or 3V3)

Pin 5: GND

ID Selection:

NODE 1: PB1

NODE 2: PB2

NODE 3: PB10

NODE 4: PB11