```
SHARP_1
                                                                                       SHARP 3
SHARP 4
SHARP 5
                                                                                    SHARP 2
                                                                                 SHARP 0
                                                                                                           EXT
                                                                                                                          S
                                                                                                                                    S
                                                                                                                                                       5
                                                                         Analog Reference
                                                                                                                   Analog pin 10
Analog pin 11
                                                                                                                                                    Digital pin 22
Digital pin 23
Digital pin 24
                                                                                                                                     Analog pin 15
                                                                                                                         Analog pin 12
                                                                                                                             Analog pin 13
                                                                                                                                 Analog pin 14
                                                                             Analog pin 0
                                                                                 Analog pin 1
                                                                                            Analog pin 4
                                                                                                Analog pin 5
                                                                                                   Analog pin 6
                                                                                                       Analog pin 7
                                                                                                            ω
                                                                                                               Analog pin 9
                                                                                     Analog pin 2
                                                                                        Analog pin 3
                                                                                                            Analog pin
                                                                                                                            (B) PK2 (ADC10/PCINT18) PK3 (ADC11/PCINT19)
                                                                                                                          ☐ PK4 (ADC12/PCINT20)
                                                                                                   国 PF6 (ADC6/PCINT14)
                                                                                                       SPF7 (ADC7/PCINT15)
                                                                                                           PK0 (ADC8/PCINT16)
                                                                                                               ₩ PK1 (ADC9/PCINT17)
                                                                                                图 PF5 (ADC5/TMS)

S PF4 (ADC4/TMK)

                                                                 国AVCC
B GND
B AREF
PFO (ADCO)
                                                                                 图PF2 (ADC2)
                                                                                         图 PF3 (ADC3)
                                                                                                           89
                                               PG5 (OC0B) 1
 mot1 1 Digital pin 4 (PWM)
                                                                                                                                                                 75 PA3 (AD3)
                                                                                                                                                                                             Digital pin 25 U
                Digital pin 0 (RX0) PE0 (RXD0/PCINT8) 2
                                                                                                                                                                 74 PA4 (AD4)
       USB
                                                                                                                                                                                             Digital pin 26
                                                PE1 (TXD0) 3
                                                                                                                                                                 73 PA5 (AD5)
                                                                                                                                                                                             Digital pin 27
       USB
                 Digital pin 1 (TX0)
                                          PE2 (XCK0/AIN0) 4
                                                                                                                                                                 72 PA6 (AD6)
                                                                                                                                                                                             Digital pin 28
                                                                                                                                                                                             Digital pin 29 UI
                                                                                                                                                                 71 PA7 (AD7)
 mot1_2
                                          PE3 (OC3A/AIN1) 5
                Digital pin 5 (PWM)
                                                                                                                                                                 70 PG2 (ALE)
                                          PE4 (OC3B/INT4) 6
                                                                                                                                                                                             Digital pin 39 UI
  cod1 A
                Digital pin 2 (PWM)
                                           PE5 (OC3C/INT5) 7
                Digital pin 3 (PWM)
                                                                                                                                                                 69 PJ6 (PCINT 15)
  cod1 B
                                              PE6 (T3/INT6) 8
                                                                                                                                                                 68 PJ5 (PCINT14)
                                     PE7 (CLKO/ICP3/INT7) 9
                                                                                                                                                                 67 PJ4 (PCINT13)
                                                       VCC 10
                                                                                                                                                                 66 PJ3 (PCINT12)
                             VCC
                             GND
                                                       GND 11
                                                                                                                                                                 65 PJ2 (XCK3/PCINT11)
                                                PH0 (RXD2) 12
                                                                                                                                                                 64 PJ1 (TXD3/PCINT10)
         BT Digital pin 17 (RX2)
                                                                                                                                                                                             Digital pin 14 (TX3) EXT
                                                                                                                                                                 63 PJ0 (RXD3/PCINT9)
         BT Digital pin 16 (TX2)
                                                PH1 (TXD2) 13
                                                                                                                                                                                             Digital pin 15 (RX3) EXT
                                                                                                                                                                 62 GND
                                                PH2 (XCK2) 14
                                                                                                                                                                                             GND
                                                PH3 (OC4A) 15
                                                                                                                                                                 61 VCC
mot1_en Digital pin 6 (PWM)
                                                PH4 (OC4B) 16
                                                                                                                                                                 60 PC7 (A15)
                                                                                                                                                                                             Digital pin 30
 mot2 1
               Digital pin 7 (PWM)
                                                                                                                                                                 59 PC6 (A14)
 mot2 2
               Digital pin 8 (PWM)
                                                PH5 (OC4C) 17
                                                                                                                                                                                             Digital pin 31 UI
mot2 en
                Digital pin 9 (PWM)
                                                PH6 (OC2B) 18
                                                                                                                                                                 58 PC5 (A13)
                                                                                                                                                                                             Digital pin 32
                                          PB0 (SS/PCINT0) 19
                                                                                                                                                                 57 PC4 (A12)
                                                                                                                                                                                             Digital pin 33 UI
                 Digital pin 53 (SS)
         SPI
                                         PB1 (SCK/PCINT1) 20
                                                                                                                                                                 56 PC3 (A11)
                                                                                                                                                                                             Digital pin 34
        SPI Digital pin 52 (SCK)
                                                                                                                                                                 55 PC2 (A10)
                                                                                                                                                                                             Digital pin 35 UI
                                        PB2 (MOSI/PCINT2) 21
        SPI Digital pin 51 (MOSI)
                                                                                                                                                                 54 PC1 (A9)
                                        PB3 (MISO/PCINT3) 22
                                                                                                                                                                                             Digital pin 36
        SPI Digital pin 50 (MISO)
                                       PB4 (OC2A/PCINT4) 23
                                                                                                                                                                 53 PC0 (A8)
 mot3_1 Digital pin 10 (PWM)
                                                                                                                                                                                             Digital pin 37
                                                                                                                                                                                                             UI
  mot3_2 Digital pin 11 (PWM)
                                       PB5 (OC1A/PCINT5) 24
                                                                                                                                                                 52 PG1 (RD)
                                                                                                                                                                                             Digital pin 40
                                       PB6 (OC1B/PCINT6) 25
                                                                                                                                                                 51 PG0 (WR)
                                                                                                                                                                                             Digital pin 41 UI
                                                                mot3_en Digital pin 12 (PWM)
                                                                                                                                    cod3_B
cod2_A
cod2_B
                                                                                                   IN RS IN IN
                                                                                                                                 cod3_A
                                                                                    reset
```