

DC Motor Driver(DRV8830)

20131108

This use i2c_rd and i2c_wr.

Reference;

DRV8830_0.3.f

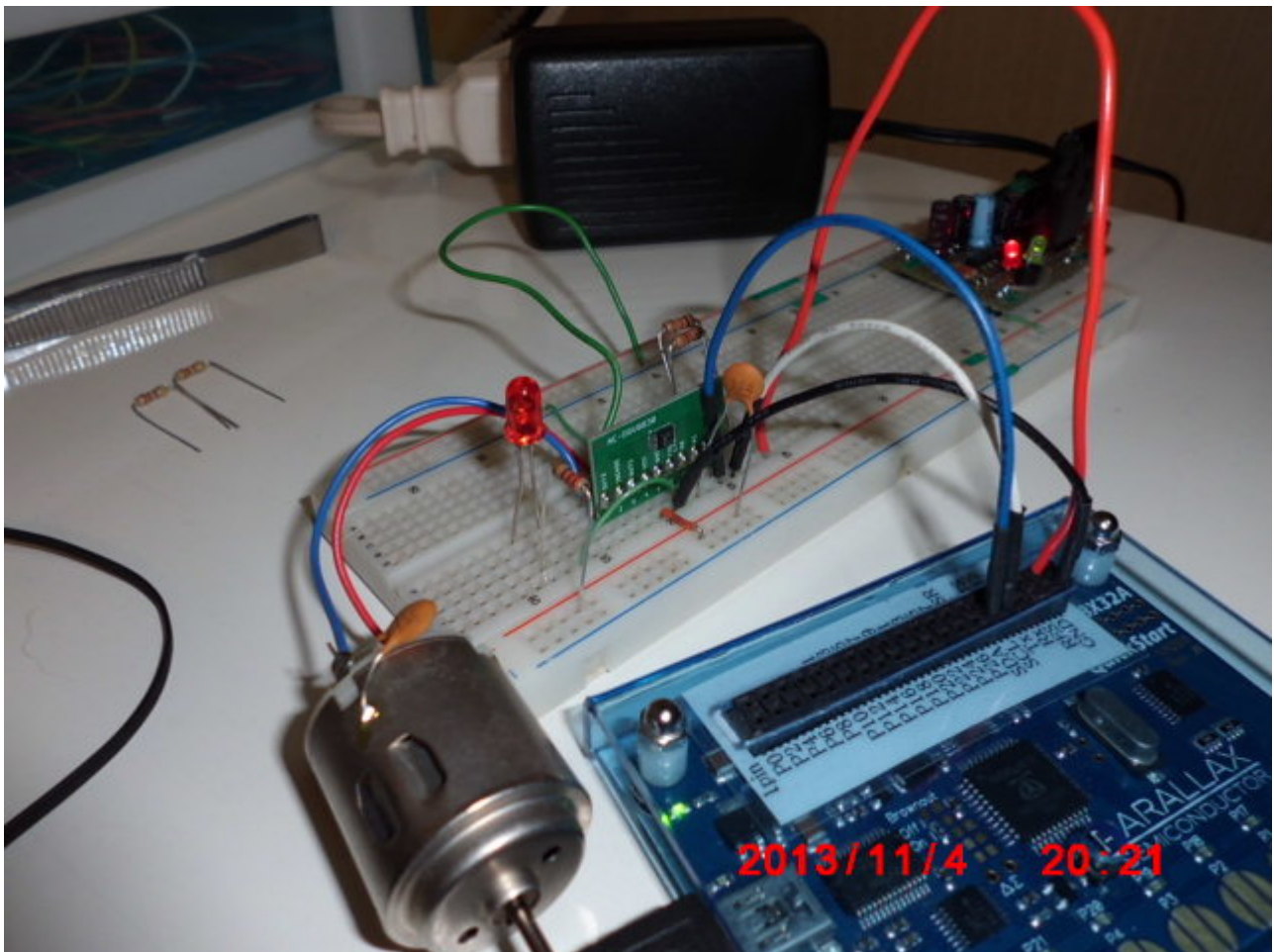
This can drive DC-motor or 1-phase of stepping motor and also control 9 devices on one I2C bus.

There is pull-up resister(10kohm) at scl/sda on QS-board.

This is too big in case of adding DRV8830.

If no pull-up resister (less than 2kohm) at scl/sda on DRV8830, QS-board don't operate correctly.

When rebooting, QS-board hang up.



Add 1.29V on DC motor

test

Prop0 Cog6 ok

Display FAULT register

FAULT?

4

Prop0 Cog6 ok

Display CONTROL register

CONTROL?

VSET DAC H-Bridge

10 forward

Stop motor without brake

stop1

Prop0 Cog6 ok

Display CONTROL and FAULT register

CONTROL?

VSET DAC H-Bridge

0 standby

Prop0 Cog6 ok

FAULT?

0

Prop0 Cog6 ok

Acceleration and deceleration

Motor_test

Foward

VSET DAC H-Bridge

6 forward

FAULT data4

VSET DAC H-Bridge

7 forward

FAULT data4

VSET DAC H-Bridge

8 forward

FAULT data4

VSET DAC H-Bridge

9 forward
FAULT data4

VSET DAC H-Bridge
A forward
FAULT data4

VSET DAC H-Bridge
B forward
FAULT data4

VSET DAC H-Bridge
C forward
FAULT data4

VSET DAC H-Bridge
D forward
FAULT data4

VSET DAC H-Bridge
E forward
FAULT data4

VSET DAC H-Bridge
F forward
FAULT data4

VSET DAC H-Bridge
10 forward
FAULT data4

VSET DAC H-Bridge
11 forward
FAULT data4

VSET DAC H-Bridge
12 forward
FAULT data4

VSET DAC H-Bridge
13 forward
FAULT data4

VSET DAC H-Bridge

14 forward
FAULT data4

VSET DAC H-Bridge
15 forward
FAULT data4

VSET DAC H-Bridge
16 forward
FAULT data4

VSET DAC H-Bridge
17 forward
FAULT data4

VSET DAC H-Bridge
18 forward
FAULT data4

VSET DAC H-Bridge
19 forward
FAULT data4

VSET DAC H-Bridge
1A forward
FAULT data4

VSET DAC H-Bridge
1B forward
FAULT data4

VSET DAC H-Bridge
1C forward
FAULT data4

VSET DAC H-Bridge
1D forward
FAULT data4

VSET DAC H-Bridge
1E forward
FAULT data4

VSET DAC H-Bridge

1F forward

FAULT data4

VSET DAC H-Bridge

20 forward

FAULT data4

VSET DAC H-Bridge

21 forward

FAULT data4

VSET DAC H-Bridge

22 forward

FAULT data4

VSET DAC H-Bridge

23 forward

FAULT data4

VSET DAC H-Bridge

24 forward

FAULT data4

VSET DAC H-Bridge

25 forward

FAULT data4

Reverse

VSET DAC H-Bridge

6 reverse

FAULT data4

VSET DAC H-Bridge

7 reverse

FAULT data4

VSET DAC H-Bridge

8 reverse

FAULT data4

VSET DAC H-Bridge

9 reverse

FAULT data4

VSET DAC H-Bridge
A reverse
FAULT data4

VSET DAC H-Bridge
B reverse
FAULT data4

VSET DAC H-Bridge
C reverse
FAULT data4

VSET DAC H-Bridge
D reverse
FAULT data4

VSET DAC H-Bridge
E reverse
FAULT data4

VSET DAC H-Bridge
F reverse
FAULT data4

VSET DAC H-Bridge
10 reverse
FAULT data4

VSET DAC H-Bridge
11 reverse
FAULT data4

VSET DAC H-Bridge
12 reverse
FAULT data4

VSET DAC H-Bridge
13 reverse
FAULT data4

VSET DAC H-Bridge
14 reverse
FAULT data4

VSET DAC H-Bridge
15 reverse
FAULT data4

VSET DAC H-Bridge
16 reverse
FAULT data4

VSET DAC H-Bridge
17 reverse
FAULT data4

VSET DAC H-Bridge
18 reverse
FAULT data4

VSET DAC H-Bridge
19 reverse
FAULT data4

VSET DAC H-Bridge
1A reverse
FAULT data4

VSET DAC H-Bridge
1B reverse
FAULT data4

VSET DAC H-Bridge
1C reverse
FAULT data4

VSET DAC H-Bridge
1D reverse
FAULT data4

VSET DAC H-Bridge
1E reverse
FAULT data4

VSET DAC H-Bridge
1F reverse
FAULT data4

VSET DAC H-Bridge

20 reverse

FAULT data4

VSET DAC H-Bridge

21 reverse

FAULT data4

VSET DAC H-Bridge

22 reverse

FAULT data4

VSET DAC H-Bridge

23 reverse

FAULT data4

VSET DAC H-Bridge

24 reverse

FAULT data4

VSET DAC H-Bridge

25 reverse

FAULT data4

Display FAULT and CONTROL register

FAULT?

0

Prop0 Cog6 ok

CONTROL?

VSET DAC H-Bridge

0 standby

Prop0 Cog6 ok