

ESP-WROOM-02 (Deep-Sleep) + Si7021 + OPiPC2 + 18650

ESP-WROOM-02 Deep-Sleep

Wi-Fi 25 Deep-Sleep

Si7021 Wi-Fi OPiPC2

18650



(https://www.calc-site.com/times/calc_elapsed_time)



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ESP-WROOM-02(Deep-Sleep) + Si7021 + OPiPC2 + 18650 + Fan

ESP-WROOM-02 + Si7021(SHT21 HTU21 GY-21) + Orange Pi PC2

BME280

Si7021 SHT21 HTU21

GY-21 (SHT21)

ESP-WROOM-02+SSD1306+BME280

BME280とSHT21の温度湿度センサーの使い方



温度湿度センサーの使い方

温度湿度センサーの使い方

http://www.esp8266learning.com/esp8266-si7021-temperature-sensor-example.php#codesyntax_1

I2Cの使い方 Adafruit SparkFunの使い方

Wire.begin(); Wire.begin(5, 4);の使い方

Adafruit SparkFunの使い方

BME280の使い方 Orange Pi PCの使い方



ADCの使い方

温度湿度センサーの使い方



温度湿度センサーの使い方

<https://neo-sahara.booth.pm/items/1924398>

PIC32MM0064GPL028 + SSD1306 (GM009605) の使い方



PIC32MM0064GPL028 + SSD1306 (GM009605) の使い方

PIC32MM0064GPL028 + SSD1306 (GM009605) の使い方

Blenderの使い方

温度湿度センサーの使い方

Blenderの使い方

PIC32MM0064GPL028 □□□□□□

[illegible]

SDA SDA(RTC Module)


```
write ds1307(2, hour); //0x02□□□□□
```

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PIC16F1823 + LM61BIZ +

NJL7502L + I2C EEPROM

LM61BIZ NJL7502L PIC16F1823 I2C EEPROM



2014/08/01



PIC16F1823 -> I2C (Bit Banging) -> AQM0802A and AT24C256B

I2C I2C

LCD AQM0802A EEPROM AT24C256B



00000000000000000000000000000000
00000000000000000000000000000000

0000 PIC12F675 + I2C + AT24C256B 0000 I2C Bit banging 00000000
0000 PIC16F1823 -> I2C(Bit Banging) -> AQM0802A 00 AQM0802A 0000
00000000000000000000000000000000

00 Slave Address 00 Device Address 00000000000000000000
EEPROM AT24C256B 0000

The device address word consists of a mandatory “1”, “0” sequence for the first four most significant bits as shown. This is common to all two-wire EEPROM devices.

00000000



00000000 1010 00 EEPROM 00000000000000000000 EEPROM 00000000000000000000
AQM0802A 0000

Only one 7-bit slave addresses (0111110) is reserved for the ST7032.

00000000



0 0111110 0000000000000000
0000 AQM0802 00000000000000000000000000000000

0000000000000000 I2C 000 LCD 00000000000000000000000000000000
000
00000000 Bit banging 0000000000000000

PIC16F1823 -> I2C (Bit Banging) -> AQM0802A

I2C PIC Bit banging I2C LCD



Wikipedia

Bit banging is a technique for serial communications using software instead of dedicated hardware.

I2C

PIC12F675 – I2C -> AQM0802A Hello

I2C PIC12F675 PIC16F1823

Bit Banging PIC



main.c InitCCT InitPIC

[crayon-67174907968e1753311718/]

I2C.h

[crayon-67174907968f2218202866/]

PIC12F675 – I2C -> AQM0802A

PIC12F675 – I2C -> AQM0802A Hello



Hello

PIC12F675 - - - I2C - - - >
AQM0802A □□□□□□Hello□

```
PIC12F675 I2C AQM0802A
I2C PIC12F675 I2C EEPROM
I2C AQM0802A
```

Hello

[illegible]

EEPROM PIC12F675 i2c (bit banging) code +
Proteus simulation

[illegible]

```

S_I2C_Start();P_I2C_Stop();
Acknowledge

```

```

slave addressST7032011110
0(R/W)0111100( = 0x7C )
control byteCo
RS

```

[illegible]

PIC12F675
 I2C

