Suggestions for MCU interrupt operation with RA8875

To avoid an abnormal interrupt operation causes the error operations for RA8875 register, we'd like to suggest user to follow the two programming rules as below.

Method 1: Disable MCU interrupt before any operation for RA8875 (As the blue mark), and enable MCU interrupt after the operation for RA8875 is done (As the red mark). Besides, as the green mark, sometimes, we will add a delay time between enable and disable interrupt subroutine, to make sure the interrupt can be worked correctly with ample time.

```
ISR_loop()
{
   disable MCU interrupt
   Can do any operation for
   RA8875
   enable MCU interrupt
}
```

```
Main_loop()
{
   Other_device_ops();
   disable MCU interrupt
   RA8875_ops1();
   enable MCU interrupt

   space delay time

   disable MCU interrupt
   RA8875_ops2();
   enable MCU interrupt

 }
```

Method 2: Interrupt with the polling flag. In this case, we do not have any register operation for RA8875 in the interrupt subroutine. Just set the interrupt flag to indicate an interrupt is occurred. And then polling the interrupt flag is high or low in the main loop or the other subroutine. If the flag is detected as the logical high (1), then the program will execute the corresponding subroutine/program for this interrupt function.

```
ISR_loop()
{
   //disable MCU interrupt
   int_flag=1;
   //enable MCU interrupt
}
```

```
//Global variable
Unsigned char int_flag = 0;
Main_loop()
{
   RA8875_ops1();
   Other_device_ops();
   If(int_flag)
   {
     //to do interrupt operation.
     Int_flag=0;
     }
 }
```