

I2C_SLAVE_RECEIVE

1. Operation Outline

This sample program uses two evaluation boards. One board is receiver board for I2C_SLAVE_RECEIVE sample program, and the other is transmitter board for I2C_MASTER_TRANS sample program. These sample programs need to write in advance, respectively. The character string "TPM4KQ" transmitted from MASTER TRANS side of the board is received by a port input with SW. The LED is turned on at receiving I2C.

2. Each Setting

Switch : SW4 (PortA2)

LED : LED0 (PortJ0) Lights on when reception is complete
: LED2 (PortJ2) It lights on by the operation of SW4. Lights off when reception is complete

External interrupt : INT00 (PortA2)

I2C : I2C1SDA (PortU0) The MCU 1 pin at RECEIVE side of the board and MCU 1 pin at TRANS side of the board are connected.
: I2C1SCL (PortU1) The MCU 2 pin at RECEIVE side of the board and MCU 2 pin at TRANS side of the board are connected.

3. Basic Operation

If the state is in a receive standby state by SW4 at the RECEIVE side of the board, and character strings "TPM4KQ" is transmitted by the board at the side of MASTER TRANS, a receive interrupt is generated. When the reception of all character strings is completed, LEDs light on.

4. Note

Multiple push-downs of a switch are not supported.