

Load Power Management Enable Flowchart

Block sleep mode to minimum for I2C

Enable I2C SCL + SDA lines WiredAnd

Reset I2C state machines on PG and SI7021

Load Power Management Disable Flowchart

Disable I2C SCL+SDA lines

Deassert SENSOR_ENABLE

Unblock sleep mode for low power

void I2C0_Wait_ACK(void){ while(!(I2C -> IF & I2C_IF_ACK)); I2C0 -> IFC = I2C_IFC_ACK;

void I2C0_Wait_RXDATAV(void){
 while(!(I2C -> IF & I2C_IF_RXDATAV));

I2C Software Ladder Flowchart:

Making temperature measurement