

Configuration Wake-on-Motion Interrupt using low power Accel mode

Make Sure Accel is running:

- In PWR_MGMT_1 (0x6B) make CYCLE = 0, SLEEP = 0 and STANDBY = 0
- In PWR_MGMT_2 (0x6C) set DIS_XA, DIS_YA, DIS_ZA = 0 and DIS_XG, DIS_YG, DIS_ZG = 1

Set Accel LPF setting to 184 Hz Bandwidth:

- In ACCEL_CONFIG 2 (0x1D) set ACCEL_FCHOICE_B = 1 and A_DLPFCFG[2:] = 1(b001)

Enable Motion Interrupt:

- In INT_ENABLE (0x38), set the whole register to 0x40 to enable motion interrupt only.

Enable Accel Hardware Intelligence:

- In MOT_DETECT_CTRL (0x69), set ACCEL_INTEL_EN = 1 and ACCEL_INTEL_MODE = 1

Set Motion Threshold:

- In WOM_THR (0x1F), set the WOM_Threshold [7:0] to 1~255 LSBs (0~1020mg)

Set Frequency of Wake-up:

- In LP_ACCEL_ODR (0x1E), set Lposc_cksel [3:0] = 0.24Hz ~ 500Hz

Enable Cycle Mode (Accel Low Power Mode):

- In PWR_MGMT_1 (0x6B) make CYCLE = 1

Motion Interrupt Configuration Completed