

6 Register mapping

The table given below provides a list of the 8/16-bit registers embedded in the device and the corresponding addresses.

Table 21. Accelerometer and gyroscope register address map

Name	Type	Register address		Default	Note
		Hex	Binary		
Reserved	--	00-03	--	--	Reserved
ACT_THS	r/w	04	00000100	00000000	
ACT_DUR	r/w	05	00000101	00000000	
INT_GEN_CFG_XL	r/w	06	00000110	00000000	
INT_GEN_THS_X_XL	r/w	07	00000111	00000000	
INT_GEN_THS_Y_XL	r/w	08	00001000	00000000	
INT_GEN_THS_Z_XL	r/w	09	00001001	00000000	
INT_GEN_DUR_XL	r/w	0A	00001010	00000000	
REFERENCE_G	r/w	0B	00001011	00000000	
INT1_CTRL	r/w	0C	00001100	00000000	
INT2_CTRL	r/w	0D	00001101	00000000	
Reserved	--	0E	--	--	Reserved
WHO_AM_I	r	0F	00001111	01101000	
CTRL_REG1_G	r/w	10	00010000	00000000	
CTRL_REG2_G	r/w	11	00010001	00000000	
CTRL_REG3_G	r/w	12	00010010	00000000	
ORIENT_CFG_G	r/w	13	00010011	00000000	
INT_GEN_SRC_G	r	14	00010100	output	
OUT_TEMP_L	r	15	00010101	output	
OUT_TEMP_H	r	16	00010110	output	
STATUS_REG	r	17	00010111	output	
OUT_X_L_G	r	18	00011000	output	
OUT_X_H_G	r	19	00011001	output	
OUT_Y_L_G	r	1A	00011010	output	
OUT_Y_H_G	r	1B	00011011	output	
OUT_Z_L_G	r	1C	00011100	output	
OUT_Z_H_G	r	1D	00011101	output	
CTRL_REG4	r/w	1E	00011110	00111000	
CTRL_REG5_XL	r/w	1F	00011111	00111000	

Table 21. Accelerometer and gyroscope register address map (continued)

Name	Type	Register address		Default	Note
		Hex	Binary		
CTRL_REG6_XL	r/w	20	00100000	00000000	
CTRL_REG7_XL	r/w	21	00100001	00000000	
CTRL_REG8	r/w	22	00100010	00000100	
CTRL_REG9	r/w	23	00100011	00000000	
CTRL_REG10	r/w	24	00100100	00000000	
Reserved	--	25	--	--	Reserved
INT_GEN_SRC_XL	r	26	00100110	output	
STATUS_REG	r	27	00100111	output	
OUT_X_L_XL	r	28	00101000	output	
OUT_X_H_XL	r	29	00101001	output	
OUT_Y_L_XL	r	2A	00101010	output	
OUT_Y_H_XL	r	2B	00101011	output	
OUT_Z_L_XL	r	2C	00101100	output	
OUT_Z_H_XL	r	2D	00101101	output	
FIFO_CTRL	r/w	2E	00101110	00000000	
FIFO_SRC	r	2F	00101111	output	
INT_GEN_CFG_G	r/w	30	00110000	00000000	
INT_GEN_THS_XH_G	r/w	31	00110001	00000000	
INT_GEN_THS_XL_G	r/w	32	00110010	00000000	
INT_GEN_THS_YH_G	r/w	33	00110011	00000000	
INT_GEN_THS_YL_G	r/w	34	00110100	00000000	
INT_GEN_THS_ZH_G	r/w	35	00110101	00000000	
INT_GEN_THS_ZL_G	r/w	36	00110110	00000000	
INT_GEN_DUR_G	r/w	37	00110111	00000000	
Reserved	r	38-7F	--	--	Reserved