

[illegible]

0x29	Q3_BYTE3	R/O	uint8_t/1	Quaternion coeff 3 (SP float) byte 3	Data	Data	Data	Data	Data	Data	Data	Data	
0x2A	LIN_X_L	R/O	uint8_t/1	X-axis lin acc (int16_t) LSB	Data	Data	Data	Data	Data	Data	Data	Data	Same calibration as the accelerometer
0x2B	LIN_X_H	R/O	uint8_t/1	X-axis lin acc (int16_t) MSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x2C	LIN_Y_L	R/O	uint8_t/1	Y-axis lin acc (int16_t) LSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x2D	LIN_Y_H	R/O	uint8_t/1	Y-axis lin acc (int16_t) MSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x2E	LIN_Z_L	R/O	uint8_t/1	Z-axis lin acc (int16_t) LSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x2F	LIN_Z_H	R/O	uint8_t/1	Z-axis lin acc (int16_t) MSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x30	GRAV_X_L	R/O	uint8_t/1	X-axis gravity com (int16_t) LSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x31	GRAV_X_H	R/O	uint8_t/1	X-axis gravity com (int16_t) MSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x32	GRAV_Y_L	R/O	uint8_t/1	Y-axis gravity com (int16_t) LSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x33	GRAV_Y_H	R/O	uint8_t/1	Y-axis gravity com (int16_t) MSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x34	GRAV_Z_L	R/O	uint8_t/1	Z-axis gravity com (int16_t) LSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x35	GRAV_Z_H	R/O	uint8_t/1	Z-axis gravity com (int16_t) MSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x36	YAW_BYTE0	R/O	uint8_t/1	Heading angle (SP float) byte 0	Data	Data	Data	Data	Data	Data	Data	Data	Updated if "FUSION_START_STOP" bit 1 is set to 1 (Euler angle output)
0x37	YAW_BYTE1	R/O	uint8_t/1	Heading angle (SP float) byte 1	Data	Data	Data	Data	Data	Data	Data	Data	
0x38	YAW_BYTE2	R/O	uint8_t/1	Heading angle (SP float) byte 2	Data	Data	Data	Data	Data	Data	Data	Data	
0x39	YAW_BYTE3	R/O	uint8_t/1	Heading angle (SP float) byte 3	Data	Data	Data	Data	Data	Data	Data	Data	
0x3A	PITCH_BYTE0	R/O	uint8_t/1	Pitch angle (SP float) byte 0	Data	Data	Data	Data	Data	Data	Data	Data	
0x3B	PITCH_BYTE1	R/O	uint8_t/1	Pitch angle (SP float) byte 1	Data	Data	Data	Data	Data	Data	Data	Data	
0x3C	PITCH_BYTE2	R/O	uint8_t/1	Pitch angle (SP float) byte 2	Data	Data	Data	Data	Data	Data	Data	Data	
0x3D	PITCH_BYTE3	R/O	uint8_t/1	Pitch angle (SP float) byte 3	Data	Data	Data	Data	Data	Data	Data	Data	
0x3E	ROLL_BYTE0	R/O	uint8_t/1	Roll angle (SP float) byte 0	Data	Data	Data	Data	Data	Data	Data	Data	
0x3F	ROLL_BYTE1	R/O	uint8_t/1	Roll angle (SP float) byte 1	Data	Data	Data	Data	Data	Data	Data	Data	
0x40	ROLL_BYTE2	R/O	uint8_t/1	Roll angle (SP float) byte 2	Data	Data	Data	Data	Data	Data	Data	Data	
0x41	ROLL_BYTE3	R/O	uint8_t/1	Roll angle (SP float) byte 3	Data	Data	Data	Data	Data	Data	Data	Data	
0x42	AG_TEMP_L	R/O	uint8_t/1	Accel/Gyro Temp (int16_t) LSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x43	AG_TEMP_H	R/O	uint8_t/1	Accel/Gyro Temp (int16_t) MSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x44	M_TEMP_L	R/O	uint8_t/1	Mag Temp (int16_t) LSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x45	M_TEMP_H	R/O	uint8_t/1	Mag Temp (int16_t) MSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x46	B_TEMP_L	R/O	uint8_t/1	Baro Temp (int16_t) LSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x47	B_TEMP_H	R/O	uint8_t/1	Baro Temp (int16_t) MSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x48	AUX_1_X_L	R/O	uint8_t/1	Aux 1 Sensor X-axis (int16_t) LSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x49	AUX_1_X_H	R/O	uint8_t/1	Aux 1 Sensor X-axis (int16_t) MSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x4A	AUX_1_Y_L	R/O	uint8_t/1	Aux 1 Sensor Y-axis (int16_t) LSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x4B	AUX_1_Y_H	R/O	uint8_t/1	Aux 1 Sensor Y-axis (int16_t) MSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x4C	AUX_1_Z_L	R/O	uint8_t/1	Aux 1 Sensor Z-axis (int16_t) LSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x4D	AUX_1_Z_H	R/O	uint8_t/1	Aux 1 Sensor Z-axis (int16_t) MSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x4E	AUX_2_X_L	R/O	uint8_t/1	Aux 2 Sensor X-axis (int16_t) LSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x4F	AUX_2_X_H	R/O	uint8_t/1	Aux 2 Sensor X-axis (int16_t) MSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x50	AUX_2_Y_L	R/O	uint8_t/1	Aux 2 Sensor Y-axis (int16_t) LSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x51	AUX_2_Y_H	R/O	uint8_t/1	Aux 2 Sensor Y-axis (int16_t) MSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x52	AUX_2_Z_L	R/O	uint8_t/1	Aux 2 Sensor Z-axis (int16_t) LSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x53	AUX_2_Z_H	R/O	uint8_t/1	Aux 2 Sensor Z-axis (int16_t) MSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x54	AUX_3_X_L	R/O	uint8_t/1	Aux 3 Sensor X-axis (int16_t) LSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x55	AUX_3_X_H	R/O	uint8_t/1	Aux 3 Sensor X-axis (int16_t) MSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x56	AUX_3_Y_L	R/O	uint8_t/1	Aux 3 Sensor Y-axis (int16_t) LSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x57	AUX_3_Y_H	R/O	uint8_t/1	Aux 3 Sensor Y-axis (int16_t) MSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x58	AUX_3_Z_L	R/O	uint8_t/1	Aux 3 Sensor Z-axis (int16_t) LSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x59	AUX_3_Z_H	R/O	uint8_t/1	Aux 3 Sensor Z-axis (int16_t) MSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x5A	MX_L	R/O	uint8_t/1	In-Plane X-axis field (int16_t) LSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x5B	MX_H	R/O	uint8_t/1	In-Plane X-axis field (int16_t) MSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x5C	MY_L	R/O	uint8_t/1	In-Plane Y-axis field (int16_t) LSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x5D	MY_H	R/O	uint8_t/1	In-Plane Y-axis field (int16_t) MSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x5E	DHI_RSQ_L	R/O	uint8_t/1	DHI R-square LSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x5F	DHI_RSQ_H	R/O	uint8_t/1	DHI R-square MSB	Data	Data	Data	Data	Data	Data	Data	Data	
0x60	FUSION_START_STOP	W/O	uint8_t/1	Starts/stops the main fusion loop	1:Upload FineMagCal 0:No Action	1:Upload AccelCal 0:No Action	1:Upload EllipMagCal 0:No Action	1:Upload GyroCal 0:No Action	1:Upload Config 0:No Action	1:Unscaled Snsr Data 0:Scaled Snsr Data	1:Euler 0:Quat	1:Start 0:Stop	Bit 1 selects Quat/Euler output. Stopping fusion puts the coprocessor into configuration mode
0x61	CALIBRATION_REQUEST	W/O	uint8_t/1	Manages embedded calibration activity	N/A	0:3D HI Corrector 1:2D HI Corrector	0:No Action 1:Reset Dynamic HI	0:Disable HI Corrections 1:Enable HI Corrections	0:No Action 1:Start Next Accel Cal	0:AccelCal Cancel 1:AccelCal Start	0:EllipMag Cancel 1:EllipMag Start	0:Gyro Cancel 1:Gyro Start	Asserting a bit starts the corresponding calibration, de-asserting cancels. Asserting bit 3 triggers data collection for the current orientation in accel/fine mag cal. Asserting bit 5 clears current dynamic HI corrections and enables new in-situ data collection. All calibrations are done with fusion running
0x62	COPRO_CFG_DATA0	R/W	struct/30	First block of config structure	Data	Data	Data	Data	Data	Data	Data	Data	
0x63	COPRO_CFG_DATA1	R/W	struct/27	Second block of config structure	Data	Data	Data	Data	Data	Data	Data	Data	
0x64	GYRO_CAL_DATA0	R/W	struct/30	First block of gyro cal structure	Data	Data	Data	Data	Data	Data	Data	Data	

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