

STMICROELECTRONICS Analog ICs



GYROSCOPES

ST's complete family of single-axis (yaw) and two-axis (pitch-and-roll, pitch-and-yaw) MEMS gyroscopes offers the industry's widest full-scale range, from 30 to 6000°/s.

The innovatively designed sensors can provide two separate outputs for each axis at the same time – an unamplified output value for general detection of angular motion and a 4x amplification for high-resolution measurements that enhances design flexibility and the user experience.

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	STM Part No.	Package Type	Sensitivity (mV/dps)		Supply Voltage			Price Each		
			Amplified	Not Amplified	(min)	(typ)	(max)	1	10	100
Single-Axis										
511-LISY300AL	LISY300AL	LGA-28 7x7X1.5mm	3.3	3.3	2.7	3.0	3.6	10.99	9.01	8.00
511-LY3100ALH	LY3100ALH	LGA-10 3x5x1mm	1.1	1.1	2.7	3.0	3.6	11.07	10.31	8.02
511-LY3200ALH	LY3200ALH	LGA-10 3x5x1mm	0.67	0.67	2.7	3.0	3.6	11.07	10.31	8.02
511-LY3300ALH	LY3300ALH	LGA-10 3x5x1mm	3.752	3.752	2.7	3.0	3.6	11.07	10.31	8.02
511-LY503ALH	LY503ALH	LGA-16 5x5x1.5mm	33.3	8.3	2.7	3.0	3.6	10.99	9.01	8.00
511-LY503ALHTR	LY503ALHTR	LGA-16 5x5x1.5mm	33.3	8.3	2.7	3.0	3.6	10.99	9.01	8.00
511-LY510ALH	LY510ALH	LGA-16 5x5x1.5mm	10.0	2.5	2.7	3.0	3.6	10.99	9.01	8.00
511-LY510ALHTR	LY510ALHTR	LGA-16 5x5x1.5mm	10.0	2.5	2.7	3.0	3.6	10.99	9.01	8.00
511-LY5150AL	LY5150AL	LGA-16 5x5x1.5mm	0.67	0.167	2.7	3.0	3.6	10.99	9.01	8.00
511-LY5150ALH	LY5150ALH	LGA-16 5x5x1.5mm	0.67	0.167	2.7	3.0	3.6	10.99	9.01	8.00
511-LY5150ALHTR	LY5150ALHTR	LGA-16 5x5x1.5mm	0.67	0.167	2.7	3.0	3.6	10.99	9.01	8.00
511-LY530ALH	LY530ALH	LGA-16 5x5x1.5mm	3.33	0.83	2.7	3.0	3.6	10.99	9.01	8.00
511-LY530ALHTR	LY530ALHTR	LGA-16 5x5x1.5mm	3.33	0.83	2.7	3.0	3.6	10.99	9.01	8.00
511-LY550ALH	LY550ALH	LGA-16 5x5x1.5mm	2.0	0.5	2.7	3.0	3.6	10.99	9.01	8.00
511-LY550ALHTR	LY550ALHTR	LGA-16 5x5x1.5mm	2.0	0.5	2.7	3.0	3.6	10.99	9.01	8.00
Dual-Axis										
511-LPR403AL	LPR403AL	LGA-28 4x5X1mm	33.3	8.3	2.7	3.0	3.6	11.07	10.31	8.02
511-LPR410AL	LPR410AL	LGA-28 4x5X1mm	10	2.5	2.7	3.0	3.6	11.07	10.31	8.02
511-LPR4150AL	LPR4150AL	LGA-28 4x5X1mm	0.67	0.167	2.7	3.0	3.6	11.07	10.31	8.02
511-LPR430AL	LPR430AL	LGA-28 4x5X1mm	3.33	0.83	2.7	3.0	3.6	11.07	10.31	8.02
511-LPR450AL	LPR450AL	LGA-28 4x5X1mm	2.0	0.5	2.7	3.0	3.6	11.07	10.31	8.02
511-LPR503AL	LPR503AL	LGA-16 5x5x1.5mm	33.3	8.3	2.7	3.0	3.6	10.99	9.01	8.00
511-LPR503ALTR	LPR503ALTR	LGA-16 5x5x1.5mm	33.3	8.3	2.7	3.0	3.6	10.99	9.01	8.00
511-LPR510AL	LPR510AL	LGA-16 5x5x1.5mm	10.0	2.5	2.7	3.0	3.6	10.99	9.01	8.00
511-LPR510ALTR	LPR510ALTR	LGA-16 5x5x1.5mm	10.0	2.5	2.7	3.0	3.6	10.99	9.01	8.00
511-LPR5150AL	LPR5150AL	LGA-16 5x5x1.5mm	0.67	0.167	2.7	3.0	3.6	10.99	9.01	8.00
511-LPR5150ALTR	LPR5150ALTR	LGA-16 5x5x1.5mm	0.67	0.167	2.7	3.0	3.6	10.99	9.01	8.00
511-LPR530AL	LPR530AL	LGA-16 5x5x1.5mm	3.33	0.83	2.7	3.0	3.6	10.99	9.01	8.00
511-LPR530ALTR	LPR530ALTR	LGA-16 5x5x1.5mm	3.33	0.83	2.7	3.0	3.6	10.99	9.01	8.00
511-LPR550AL	LPR550AL	LGA-16 5x5x1.5mm	2.0	0.5	2.7	3.0	3.6	10.99	9.01	8.00
511-LPR550ALTR	LPR550ALTR	LGA-16 5x5x1.5mm	2.0	0.5	2.7	3.0	3.6	10.99	9.01	8.00
511-LPY403AL	LPY403AL	LGA-28 4x5X1mm	33.3	8.3	-2.7	3.0	3.6	11.07	10.31	8.02
511-LPY410AL	LPY410AL	LGA-28 4x5X1mm	10.0	2.5	2.7	3.0	3.6	11.07	10.31	8.02
511-LPY4150AL	LPY4150AL	LGA-28 4x5X1mm	0.67	0.167	2.7	3.0	3.6	11.07	10.31	8.02
511-LPY430AL	LPY430AL	LGA-28 4x5X1mm	3.33	0.83	2.7	3.0	3.6	11.07	10.31	8.02
511-LPY450AL	LPY450AL	LGA-28 4x5X1mm	2.0	0.5	2.7	3.0	3.6	11.07	10.31	8.02
511-LPY503AL	LPY503AL	LGA-16 5x5x1.5mm	33.3	8.3	2.7	3.0	3.6	10.99	9.01	8.00
511-LPY503ALTR	LPY503ALTR	LGA-16 5x5x1.5mm	33.3	8.3	2.7	3.0	3.6	10.99	9.01	8.00
511-LPY510AL	LPY510AL	LGA-16 5x5x1.5mm	10.0	2.5	2.7	3.0	3.6	10.99	9.01	8.00
511-LPY510ALTR	LPY510ALTR	LGA-16 5x5x1.5mm	10.0	2.5	2.7	3.0	3.6	10.99	9.01	8.00
511-LPY5150AL	LPY5150AL	LGA-16 5x5x1.5mm	0.67	0.167	2.7	3.0	3.6	10.99	9.01	8.00
511-LPY5150ALTR	LPY5150ALTR	LGA-16 5x5x1.5mm	0.67	0.167	2.7	3.0	3.6	10.99	9.01	8.00
511-LPY530AL	LPY530AL	LGA-16 5x5x1.5mm	3.33	0.83	2.7	3.0	3.6	10.99	9.01	8.00
511-LPY530ALTR	LPY530ALTR	LGA-16 5x5x1.5mm	3.33	0.83	2.7	3.0	3.6	10.99	9.01	8.00
511-LPY550AL	LPY550AL	LGA-16 5x5x1.5mm	2.0	0.5	2.7	3.0	3.6	10.99	9.01	8.00
511-LPY550ALTR	LPY550ALTR	LGA-16 5x5x1.5mm	2.0	0.5	2.7	3.0	3.6	10.99	9.01	8.00

STMICROELECTRONICS PRODUCT EVALUATION BOARDS FOR MOTION SENSORS (MEMS)

ST MEMS-based acceleration sensors are all supported by their own evaluation kits that allow system designers to evaluate sensors performances and capabilities. The kit enables the acquisition, through an analog or digital interface, of acceleration data sensed by accelerometers, with the support of a dedicated software in case of digital solution .

MOUSER STOCK NO.	STM Part No.	Description	Price Each
Gyroscopes			
511-STEVAL-MKI035V1	STEVAL-MKI035V1	MEMS analog output demonstration board for the LPY550AL, +/-500 /s and +/-2000 /s, dual axis pitch and yaw gyro	98.80
511-STEVAL-MKI041V1	STEVAL-MKI041V1	Adapter board for digital/analog MEMS attachable to STM32-EVAL	98.80
511-STEVAL-MKI044V1	STEVAL-MKI044V1	MEMS analog output demonstration board for the LPR530AL, +/-300 /s and +/-1200 /s, dual axis pitch and roll gyro	31.50
511-STEVAL-MKI047V1	STEVAL-MKI047V1	MEMS Analog Output Demonstration Board for the LY550ALH, +/-500 /s and +/-2000 /s, Dual Axis Pitch and Yaw Gyro	31.50
511-STEVAL-MKI050V1	STEVAL-MKI050V1	LPR530AL adapter board designed to be plugged into a standard DIL24 socket	31.50
Accelerometers			
511-STEVALMKI006V1	STEVAL-MKI006V1	MEMS 3-axis - ±2g/±8g digital output low power linear accelerometer evaluation board based on LIS302DL	54.60
511-STEVALMKI007V1	STEVAL-MKI007V1	MEMS Analog Output Low Power 3-Axis linear accelerometer based on LIS302ALB	32.50
511-STEVALMKI009V1	STEVAL-MKI009V1	LIS3LV02DL adapter board designed to be plugged into a standard DIL 20 socket	24.70
511-STEVALMKI010V1	STEVAL-MKI010V1	LIS3L02AS4 Adapter Board designed to be plugged into a standard DIL 20 socket	24.70
511-STEVAL-MKI011V1	STEVAL-MKI011V1	MEMS Analog Output Low Power 3-Axis linear accelerometer based on LIS302ALB	24.70
511-STEVALMKI012V1	STEVAL-MKI012V1	LIS3L02AS4 Adapter Board designed to be plugged into a standard DIL 20 socket	32.50
511-STEVAL-MKI016V1	STEVAL-MKI016V1	LIS302ALB Adapter Board designed to be plugged into a standard DIL 20 socket	50.70
511-STEVAL-MKI017V1	STEVAL-MKI017V1	LIS344AL adapter brd into DIL 20 SKT	33.80
511-STEVAL-MKI018V1	STEVAL-MKI018V1	MEMS 3-Axis 3.5g Analog Output Evaluation Board based on LIS344AL	33.80
511-STEVAL-MKI019V1	STEVAL-MKI019V1	LIS344AL Adapter Board designed to be plugged into a standard DIL 20 socket	50.70
511-STEVAL-MKI020V1	STEVAL-MKI020V1	LIS244AL Adapter Board designed to be plugged into a standard DIL 20 socket	33.80
511-STEVAL-MKI021V1	STEVAL-MKI021V1	MEMS 3-Axis ±2g Analog Output Evaluation Board based on LIS302SG	48.10
511-STEVAL-MKI024V1	STEVAL-MKI024V1	LIS302SG Adapter Board designed to be plugged into a standard DIL 20 socket	76.70
511-STEVAL-MKI029V1	STEVAL-MKI029V1	MEMS 3-Axis ±2g Analog Output Evaluation Board based on NANO Accelerometer LIS331AL	31.20
511-STEVAL-MKI030V1	STEVAL-MKI030V1	MEMS 3-axis 2g/8g smart digital output evaluation board based on nano accelerometer LIS331DL	31.20
511-STEVAL-MKI038V1	STEVAL-MKI038V1	Inclination analysis demonstration board based on the STM8S207R6 MCU and LIS331DLH MEMS	98.80
511-STEVAL-MKI032V1	STEVAL-MKI032V1	Vibration analysis demonstration board based on the STM8S207R6 MCU and LIS331DLH MEMS	68.95
511-STEVALMKI004V1	STEVAL-MKI004V1	MEMS 3-Axis ±2g/±8g Digital Output Low Voltage Linear Accelerometer. Board based on LIS3LV02DQ.	54.60
511-STEVALMKI005V1	STEVAL-MKI005V1	MEMS 3-Axis ±2g/±8g Digital Output Low Voltage Linear Accelerometer. Board based on LIS3LV02DL.	54.60
511-STEVALMKI006V1	STEVAL-MKI006V1	MEMS 3-Axis - ±2g/±8g Digital Output Low Power Linear Accelerometer. Evaluation Board based on LIS302DL.	54.60
511-STEVAL-MKI009V1	STEVAL-MKI009V1	LIS3LV02DL Adapter Board designed to be plugged into a standard DIL 20 socket	24.70
511-STEVAL-MKI013V1	STEVAL-MKI013V1	LIS302DL Adapter Board designed to be plugged into a standard DIL 24 socket	33.80
511-STEVAL-MKI014V1	STEVAL-MKI014V1	MEMS 3-Axis ±2g/±6g Analog Output Evaluation Board based on LIS344ALH	50.70
511-STEVAL-MKI015V1	STEVAL-MKI015V1	LIS344ALH Adapter Board designed to be plugged into a standard DIL 20 socket	33.80
511-STEVAL-MKI022V1	STEVAL-MKI022V1	MEMS 3-Axis ±2g /±8g Smart Digital Output Evaluation Board	76.70
511-STEVAL-MKI023V1	STEVAL-MKI023V1	Single-Axis ±/-300°/s analog output yaw rate gyroscope Evaluation Board based on LISY300AL	49.40