

# STMicroelectronics Analog ICs

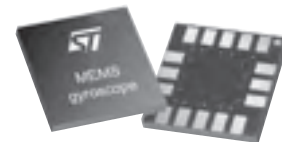


RoHS Compliant **This page of product is compliant.**

## 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 |
| <b>Single-Axis</b> |              |                  |                      |               |                |       |       |            |    |     |
| 511-LISY300AL      | LISY300AL    | LGA-28 7x7x1.5mm | 3.3                  | 3.3           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LY3100ALH      | LY3100ALH    | LGA-10 3x5x1mm   | 1.1                  | 1.1           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LY3200ALH      | LY3200ALH    | LGA-10 3x5x1mm   | 0.67                 | 0.67          | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LY330ALH       | LY330ALH     | LGA-10 3x5x1mm   | 3.752                | 3.752         | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LY503ALH       | LY503ALH     | LGA-16 5x5x1.5mm | 33.3                 | 8.3           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LY503ALHTR     | LY503ALHTR   | LGA-16 5x5x1.5mm | 33.3                 | 8.3           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LY510ALH       | LY510ALH     | LGA-16 5x5x1.5mm | 10.0                 | 2.5           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LY510ALHTR     | LY510ALHTR   | LGA-16 5x5x1.5mm | 10.0                 | 2.5           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LY5150AL       | LY5150AL     | LGA-16 5x5x1.5mm | 0.67                 | 0.167         | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LY5150ALH      | LY5150ALH    | LGA-16 5x5x1.5mm | 0.67                 | 0.167         | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LY5150ALHTR    | LY5150ALHTR  | LGA-16 5x5x1.5mm | 0.67                 | 0.167         | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LY530ALH       | LY530ALH     | LGA-16 5x5x1.5mm | 3.33                 | 0.83          | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LY550ALH       | LY550ALH     | LGA-16 5x5x1.5mm | 2.0                  | 0.5           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LY550ALHTR     | LY550ALHTR   | LGA-16 5x5x1.5mm | 2.0                  | 0.5           | 2.7            | 3.0   | 3.6   |            |    |     |
| <b>Dual-Axis</b>   |              |                  |                      |               |                |       |       |            |    |     |
| 511-LPR403AL       | LPR403AL     | LGA-28 4x5X1mm   | 33.3                 | 8.3           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPR410AL       | LPR410AL     | LGA-28 4x5X1mm   | 10                   | 2.5           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPR4150AL      | LPR4150AL    | LGA-28 4x5X1mm   | 0.67                 | 0.167         | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPR430AL       | LPR430AL     | LGA-28 4x5X1mm   | 3.33                 | 0.83          | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPR450AL       | LPR450AL     | LGA-28 4x5X1mm   | 2.0                  | 0.5           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPR503AL       | LPR503AL     | LGA-16 5x5x1.5mm | 33.3                 | 8.3           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPR503ALTR     | LPR503ALTR   | LGA-16 5x5x1.5mm | 33.3                 | 8.3           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPR510AL       | LPR510AL     | LGA-16 5x5x1.5mm | 10.0                 | 2.5           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPR510ALTR     | LPR510ALTR   | LGA-16 5x5x1.5mm | 10.0                 | 2.5           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPR5150AL      | LPR5150AL    | LGA-16 5x5x1.5mm | 0.67                 | 0.167         | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPR5150ALTR    | LPR5150ALTR  | LGA-16 5x5x1.5mm | 0.67                 | 0.167         | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPR530AL       | LPR530AL     | LGA-16 5x5x1.5mm | 3.33                 | 0.83          | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPR530ALTR     | LPR530ALTR   | LGA-16 5x5x1.5mm | 3.33                 | 0.83          | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPR550AL       | LPR550AL     | LGA-16 5x5x1.5mm | 2.0                  | 0.5           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPR550ALTR     | LPR550ALTR   | LGA-16 5x5x1.5mm | 2.0                  | 0.5           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPY403AL       | LPY403AL     | LGA-28 4x5X1mm   | 33.3                 | 8.3           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPY410AL       | LPY410AL     | LGA-28 4x5X1mm   | 10.0                 | 2.5           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPY4150AL      | LPY4150AL    | LGA-28 4x5X1mm   | 0.67                 | 0.167         | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPY430AL       | LPY430AL     | LGA-28 4x5X1mm   | 3.33                 | 0.83          | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPY450AL       | LPY450AL     | LGA-28 4x5X1mm   | 2.0                  | 0.5           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPY503AL       | LPY503AL     | LGA-16 5x5x1.5mm | 33.3                 | 8.3           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPY503ALTR     | LPY503ALTR   | LGA-16 5x5x1.5mm | 33.3                 | 8.3           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPY510AL       | LPY510AL     | LGA-16 5x5x1.5mm | 10.0                 | 2.5           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPY510ALTR     | LPY510ALTR   | LGA-16 5x5x1.5mm | 10.0                 | 2.5           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPY5150AL      | LPY5150AL    | LGA-16 5x5x1.5mm | 0.67                 | 0.167         | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPY5150ALTR    | LPY5150ALTR  | LGA-16 5x5x1.5mm | 0.67                 | 0.167         | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPY530AL       | LPY530AL     | LGA-16 5x5x1.5mm | 3.33                 | 0.83          | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPY530ALTR     | LPY530ALTR   | LGA-16 5x5x1.5mm | 3.33                 | 0.83          | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPY550AL       | LPY550AL     | LGA-16 5x5x1.5mm | 2.0                  | 0.5           | 2.7            | 3.0   | 3.6   |            |    |     |
| 511-LPY550ALTR     | LPY550ALTR   | LGA-16 5x5x1.5mm | 2.0                  | 0.5           | 2.7            | 3.0   | 3.6   |            |    |     |

## 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 |
|-----------------------|-----------------|--|------------|
| <b>Gyroscopes</b>     |                 |  |            |
| 511-STEVAL-MKI035V1   | STEVAL-MKI035V1 | MEMS analog output demonstration board for the LPY550AL, +/-500 /s and +/-2000 /s, dual axis pitch and yaw gyro  |            |
| 511-STEVAL-MKI041V1   | STEVAL-MKI041V1 | Adapter board for digital/analog MEMS attachable to STM32-EVAL   |            |
| 511-STEVAL-MKI044V1   | STEVAL-MKI044V1 | MEMS analog output demonstration board for the LPR530AL, +/-300 /s and +/-1200 /s, dual axis pitch and roll gyro |            |
| 511-STEVAL-MKI047V1   | STEVAL-MKI047V1 | MEMS Analog Output Demonstration Board for the LY550ALH, +/-500 /s and +/-2000 /s, Dual Axis Pitch and Yaw Gyro  |            |
| 511-STEVAL-MKI050V1   | STEVAL-MKI050V1 | LPR530AL adapter board designed to be plugged into a standard DIL24 socket                                       |            |
| <b>Accelerometers</b> |                 |  |            |
| 511-STEVALMKI006V1    | STEVAL-MKI006V1 | MEMS 3-axis - ±2g/±8g digital output low power linear accelerometer evaluation board based on LIS302DL           |            |
| 511-STEVALMKI007V1    | STEVAL-MKI007V1 | MEMS Analog Output Low Power 3-Axis linear accelerometer based on LIS302ALB                                      |            |
| 511-STEVALMKI009V1    | STEVAL-MKI009V1 | LIS3LV02DL adapter board designed to be plugged into a standard DIL 20 socket                                    |            |
| 511-STEVALMKI010V1    | STEVAL-MKI010V1 | LIS3L02AS4 Adapter Board designed to be plugged into a standard DIL 20 socket                                    |            |
| 511-STEVAL-MKI011V1   | STEVAL-MKI011V1 | MEMS Analog Output Low Power 3-Axis linear accelerometer based on LIS302ALB                                      |            |
| 511-STEVALMKI012V1    | STEVAL-MKI012V1 | LIS3L02AS4 Adapter Board designed to be plugged into a standard DIL 20 socket                                    |            |
| 511-STEVAL-MKI016V1   | STEVAL-MKI016V1 | LIS302ALB Adapter Board designed to be plugged into a standard DIL 20 socket                                     |            |
| 511-STEVAL-MKI017V1   | STEVAL-MKI017V1 | LIS344AL adapter brd into DIL 20 SKT   |            |
| 511-STEVAL-MKI018V1   | STEVAL-MKI018V1 | MEMS 3-Axis 3.5g Analog Output Evaluation Board based on LIS344AL  |            |
| 511-STEVAL-MKI019V1   | STEVAL-MKI019V1 | LIS344AL Adapter Board designed to be plugged into a standard DIL 20 socket                                      |            |
| 511-STEVAL-MKI020V1   | STEVAL-MKI020V1 | LIS244AL Adapter Board designed to be plugged into a standard DIL 20 socket                                      |            |
| 511-STEVAL-MKI021V1   | STEVAL-MKI021V1 | MEMS 3-Axis ±2g Analog Output Evaluation Board based on LIS302SG   |            |
| 511-STEVAL-MKI024V1   | STEVAL-MKI024V1 | LIS302SG Adapter Board designed to be plugged into a standard DIL 20 socket                                      |            |
| 511-STEVAL-MKI029V1   | STEVAL-MKI029V1 | MEMS 3-Axis ±2g Analog Output Evaluation Board based on NANO Accelerometer LIS331AL                              |            |
| 511-STEVAL-MKI030V1   | STEVAL-MKI030V1 | MEMS 3-axis 2g/8g smart digital output evaluation board based on nano accelerometer LIS331DL                     |            |
| 511-STEVAL-MKI038V1   | STEVAL-MKI038V1 | Inclination analysis demonstration board based on the STM8S207R6 MCU and LIS331DLH MEMS                          |            |
| 511-STEVAL-MKI032V1   | STEVAL-MKI032V1 | Vibration analysis demonstration board based on the STM8S207R6 MCU and LIS331DLH MEMS                            |            |
| 511-STEVALMKI004V1    | STEVAL-MKI004V1 | MEMS 3-Axis ±2g/±8g Digital Output Low Voltage Linear Accelerometer. Board based on LIS3LV02DQ.                  |            |
| 511-STEVALMKI005V1    | STEVAL-MKI005V1 | MEMS 3-Axis ±2g/±8g Digital Output Low Voltage Linear Accelerometer. Board based on LIS3LV02DL.                  |            |
| 511-STEVALMKI006V1    | STEVAL-MKI006V1 | MEMS 3-Axis - ±2g/±8g Digital Output Low Power Linear Accelerometer. Evaluation Board based on LIS302DL.         |            |
| 511-STEVALMKI009V1    | STEVAL-MKI009V1 | LIS3LV02DL Adapter Board designed to be plugged into a standard DIL 20 socket                                    |            |
| 511-STEVAL-MKI013V1   | STEVAL-MKI013V1 | LIS302DL Adapter Board designed to be plugged into a standard DIL 24 socket                                      |            |
| 511-STEVAL-MKI014V1   | STEVAL-MKI014V1 | MEMS 3-Axis ±2g/±6g Analog Output Evaluation Board based on LIS344ALH  |            |
| 511-STEVAL-MKI015V1   | STEVAL-MKI015V1 | LIS344ALH Adapter Board designed to be plugged into a standard DIL 20 socket                                     |            |
| 511-STEVAL-MKI022V1   | STEVAL-MKI022V1 | MEMS 3-Axis ±2g /±8g Smart Digital Output Evaluation Board   |            |
| 511-STEVAL-MKI023V1   | STEVAL-MKI023V1 | Single-Axis ±/-300°/s analog output yaw rate gyroscope Evaluation Board based on LISY300AL                       |            |

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