

ST MICROELECTRONICS Analog ICs

Products may be RoHS compliant. Check mouser.com for RoHS status.



Analog ICs

SMART CARD READERS



RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STM Part No.	Package Type	Analog Interfaces	ISO 7816 UART	Host Interface	Integrated Crystal Oscillator	Supply Voltage (Min./Max.)	Card Supply Voltage	Price Each		
									1	10	100
511-ST8024LTR	ST8024LTR	TSSOP-20	3	Yes	I/O Lines	26MHz	-0.3/7	1.8, 3.0, 5.0	1.01	.851	.788

STMicroelectronics

3-AXIS ACCELEROMETERS

The MEMS sensor of a linear accelerometer is based on a silicon, inter-digitated, comb-like structure composed of fixed and movable fingers. To sense the acceleration in different directions, these structures are packaged in orthogonal groups. The acceleration in each direction is sensed by measuring the displacements of the movable elements correlated to that axis. The motion measured by the sensor is then translated into an analog or digital signal.

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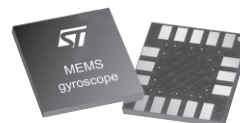
MOUSER STOCK NO.	STM Part No.	Package Type	Full Scale Span (G)		Supply Voltage (V)	Supply Current Type/Max. (mA)	Price Each		
			Min.	Max.			1	10	100
511-LIS332AX	LIS332AX	LGA-16	----	±2	2.16 to 3.6	0.3/----	4.48	4.00	3.28
511-L3G4200D	L3G4200D	LLGA-16 4x4x1mm	----	----	2.4 to 3.6	6.1/----	10.08	9.31	8.27
511-LIS3LV02DL	LIS3LV02DL	LGA-16 4.4x7.5x1mm	-6	+6	2.16 to 3.6	0.60/0.75	8.03	7.35	6.97
511-LIS331DL	LIS331DL	LGA-16 3x3x1mm	-8	+8	2.16 to 3.6	0.30/0.40	2.12	1.78	1.68
511-LIS331DLH	LIS331DLH	LGA-16 3x3x1mm	-8	+8	2.16 to 3.6	0.30/0.40	5.35	4.23	3.11
511-LIS331DLM	LIS331DLM	LGA-16 3x3x1mm	-2	+8	2.16 to 3.6	0.30/0.40	3.65	3.22	2.68
511-LIS331HH	LIS331HH	LGA-16 3x3x1mm	-6	+24	2.16 to 3.6	0.25/0.01	4.28	4.15	3.78
511-LIS33DE	LIS33DE	LGA-16 3x3x1mm	-2	+9.2	2.16 to 3.6	0.30/0.40	2.82	2.74	2.49
511-LIS35DE	LIS35DE	LGA-14 3x5x0.9mm	-2	+8	2.16 to 3.6	0.30/0.40	2.82	2.74	2.49
511-LSM330DLC	LSM330DLC	LGA-28L	±2	±16	2.4 to 3.6	2.0/----	5.05	4.91	4.58
511-L3GD20	L3GD20	LGA-16	±250	±2000	2.4 to 3.6	6.1/----	8.48	7.68	6.40

NEW AT MOUSER

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.



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MOUSER STOCK NO.	STM Part No.	Package Type	Sensitivity (mV/dps)		Supply Voltage (V)			Price Each		
			Amplified	Not Amplified	Min.	Typ.	Max.	1	10	100
Dual-Axis										
511-LPR410AL	LPR410AL	LGA-28 4x5x1mm	10	2.5	2.7	3.0	3.6	6.19	5.92	5.62
511-LPY430AL	LPY430AL	LGA-28 4x5x1mm	3.33	0.83	2.7	3.0	3.6	6.19	5.63	5.45
511-LPY450AL	LPY450AL	LGA-28 4x5x1mm	2.0	0.5	2.7	3.0	3.6	6.19	5.63	5.45
Triple-Axis										
511-A3G4250D	A3G4250D	LGA-16	10.1	7.4	2.4	3.0	3.6	18.20	16.25	14.95

NEW AT MOUSER

ACCELEROMETER/MAGNETOMETER

The integration of high-performance motion and magnetic sensing, coupled with superior stability over time and temperature, makes ST's newest digital-compass device particularly suitable for applications such as location-based services, pedestrian dead reckoning, map/display orientation, and direction finding.

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MOUSER STOCK NO.	STM Part No.	Package Type	Full Scale Span (G)				Analog Supply Voltage (V)	Digital Supply Voltage IOs (V)	Current Consumption (Typ)(µA)	Price Each		
			Acceleration		Magnetic Field					1	10	100
			Min.	Max.	Min.	Max.						
511-LSM303DLHC	LSM303DLHC	IGA-14	±2	±16	±1.3	±8.1	2.16 to 3.6	1.8	--	5.03	4.87	4.56
511-LSM303DLM	LSM303DLM	LGA-28 5x5x1mm	±2	±8	±1.3	±8.1	2.16 to 3.6	1.8	360	5.27	5.12	4.78

PRODUCT EVALUATION BOARDS FOR MOTION SENSORS (MEMS)

ST's MEMS-based acceleration sensors are all supported by their own evaluation kits that allow system designers to evaluate chip 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. For sensors with analog output, sensing data are converted by a low-noise capacitive amplifier into an analog voltage, while for digital sensors, the signals measured by the device are read by an ST7 microcontroller mounted on the board and sent to a PC via USB link for further processing.

MOUSER STOCK NO.		Description	Price Each	MOUSER STOCK NO.		Description	Price Each
Mfr.	Mfr. Part No.			Mfr.	Mfr. Part No.		
511	—STEVALMKI009V1	STM32 Interconnect MEMS Board	24.94	511	—STEVAL-MKI084V1	LPY430AL MEMS Adapter Board	22.50
511	—STEVAL-MKI013V1	LIS302DL 3-Axis Adapter Board	34.13	511	—STEVAL-MKI085V1	LPY410AL MEMS Adapter Board	22.50
511	—STEVAL-MKI015V1	LIS344ALH 3-Axis Adapter Board	34.13	511	—STEVAL-MKI086V1	LPY403AL MEMS Adapter Board	22.50
511	—STEVAL-MKI022V1	LIS331DLH 3-Axis Demo Kit	77.44	511	—STEVAL-MKI095V1	LPR4150AL MEMS Adapter Board	22.50
511	—STEVAL-MKI024V1	LIS331DL Nano Demo Board	77.44	511	—STEVAL-MKI096V1	LPR450AL MEMS Adapter Board	22.50
511	—STEVAL-MKI087V1	LIS331DL Adapter Board	27.56	511	—STEVAL-MKI097V1	LPR430AL Complete Adapter Board	22.50
511	—STEVAL-MKI088V1	LIS33DE Adapter Board	27.56	511	—STEVAL-MKI098V1	LPR410AL Adapter Board	22.50
511	—STEVAL-MKI090V1	LIS331DLF Adapter Board	27.56	511	—STEVAL-MKI099V1	LPR403AL Adapter Board	22.50
511	—STEVAL-MKI091V1	LIS331DLM Adapter Board	27.56	511	—STEVAL-MKI103V1	LPY410AL ST7 MCU Demo Board	66.25
511	—SPMB250-A1EVAL	SPMB250-A1 ZigBee Design Kit	437.50	511	—STEVAL-MKI105V1	LIS3DH Adapter Board	22.50
511	—STEVAL-MKI074V1	LY330ALH Adapter Board	22.50	511	—STEVAL-MKI107V2	L3G4200D Adapter Board	24.95
511	—STEVAL-MKI075V1	LY3100ALH Complete Adapter Board	22.50	511	—STEVAL-MKI120V1	LPS331AP Adapter Board	19.50
511	—STEVAL-MKI076V1	LY3200ALH Ready Adapter Board	22.50	511	—STEVAL-MKI122V1	LSM330DLC Adapter Board	22.10
511	—STEVAL-MKI078V1	LPR450AL ST7 MCU Demo Kit	73.75	511	—STEVAL-MKI123V1	LSM330D Adapter Board	22.10
511	—STEVAL-MKI079V1	LPR430AL 2-Axis Gyro Demo Board	73.75	511	—STEVAL-MKI124V1	L3GD20, LSM303DLHC, LPS331AP 10-axis Adapter Board	35.10
511	—STEVAL-MKI081V1	LPR403AL ST7MCU Demo Board	73.75				
511	—STEVAL-MKI082V1	LPY4150AL Adapter Board	22.50				