

As a MEMS pioneer, Analog Devices has held a leadership position as a large volume supplier of integrated MEMS accelerometers and gyroscopes. The ADXL products are the foundation for Analog Devices accelerometer family. Available in low-g or high-g sensing ranges iMEMS (Integrated Micro Electro Mechanical

System) accelerometers are used to measure position, motion, tilt, shock, and vibration in a broad array of applications. Analog Devices offer a broad accelerometer portfolio, including high performance, low power consumption and small size.

Description	G Range	Axes	Sensitivity	Bandwidth	Voltage	Supply Current	Package	Digi-Key Part No.	Price Each			Tape & Reel\$		
									1	25	100	Qty.	Pricing	
Single Axis Accelerometers — RoHS Compliant														
Low Power, High Precision	±1.5g	X	1000mV/g	10Hz	3 - 6	0.7mA	8-CLCC	ADXL103CE-ND	15.83	14.25	12.64	—	—	
Low Power, ADXL78	±35g		55mV/g	400Hz	5	1.3mA	8-CLCC	AD22279-A-R2CT-ND	11.66	10.50	9.31	250	2231.25	
Low Power, ADXL78	±50g		38mV/g	400Hz	5	1.3mA	8-CLCC	AD22280-R2CT-ND	11.66	10.50	9.31	250	2231.25	
Low Power, ADXL78	±70g		27mV/g	400Hz	5	1.3mA	8-CLCC	AD22281-R2CT-ND	11.66	10.50	9.31	250	2231.25	
Low Power, ADXL193	±120g		18mV/g	400Hz	5	1.5mA	8-CLCC	AD22282-A-R2CT-ND	12.83	11.55	10.25	250	2454.38	
Low Power, ADXL193	±250g		8mV/g	400Hz	5	1.5mA	8-CLCC	AD22283-B-R2CT-ND	12.83	11.55	10.25	250	2454.38	
Dual Axis Accelerometers — RoHS Compliant														
Low Power, Digital Output	±2g	X, Y	12.5%/g	6kHz	2.7 - 5	0.5mA	8-LCC	ADXL202AE-ND*	17.46	16.30	15.14	—	—	
Low Power, Digital Output	±2g		12.5%/g	6kHz	2.7 - 5	0.5mA	8-LCC	ADXL202JE-ND*	15.30	14.28	13.26	—	—	
Low Power, High Precision	±1.5g		1000mV/g	10Hz	3 - 6	0.7mA	8-CLCC	ADXL203CE-ND	22.50	21.00	19.50	—	—	
Low Power, Single IC Chip	±1.7g		620mV/g	2.5kHz	3 - 6	0.5mA	8-LCC	ADXL204CE-ND	22.50	21.00	19.50	—	—	
Low-Cost, Analog Output	±2g		174mV/g	6kHz	2.4 - 5	0.4mA	8-CLCC	ADXL311JE-ND	8.50	7.65	6.79	—	—	
Low Power, Digital Out	±1.2g		30%/g	60Hz	3 - 6	0.7mA	8-LCC	ADXL213AE-ND	17.46	16.30	15.14	—	—	
Low Power, Small, Thin	±5g	X, Y	174mV/g	2.5kHz	2.4 - 5.25	0.45mA	16-Lead LFCSP	ADXL320JCP-ND	8.33	7.50	6.65	—	—	
Low Power	±18g		57mV/g	50Hz	2.4 - 6	0.45mA	16-LFCSP	ADXL321JCP-ND	8.33	7.50	6.65	—	—	
Low Power	±2g		420mV/g	60Hz	2.4 - 6	0.45mA	16-LFCSP	ADXL322JCP-ND	8.33	7.50	6.65	—	—	
Low Power, Small	±3g		300mV/g	1600Hz	1.8 - 5.25	320µA	16-LFCSP	ADXL323KCPZ-RLCT-ND	9.50	7.60	6.42	4,000	5890.00/M	
Low Power, ADXL278	±35g		55mV/g	400Hz	5	2.2mA	8-CLCC	AD22284-A-R2CT-ND	15.75	14.70	13.65	250	3346.88	
Low Power, ADXL278	±50g		38mV/g	400Hz	5	2.2mA	8-CLCC	AD22285-R2CT-ND	15.75	14.70	13.65	250	3346.88	
Low Power, ADXL278	±70g	27mV/g	400Hz	5	2.2mA	8-CLCC	AD22286-R2CT-ND	15.75	14.70	13.65	250	3346.88		
Triple Axis Accelerometers — Low Power — RoHS Compliant														
Low Power, Small	±3g	X, Y, Z	300mV/g	1.6(X,Y) 0.55(Z)	2.0 - 3.6	0.2mA	16-LFCSP	ADXL330KCPZ-RLCT-ND	11.58	10.43	9.25	4,000	8444.25/M	

Description	Range (°/s)	Axes	Sensitivity	Bandwidth	Voltage	Supply Current	Package	Digi-Key Part No.	Price Each		
									1	25	100
Gyroscopes											
Single Chip Yaw Rate Gyro	±150 ±300 ±75	Z	12.5 ± 10% 5.0 ± 8% 15.0 ± 15%	40Hz	4.75 - 5.25	6.0mA	32-BGA	ADXRS150ABG-ND ADXRS300ABG-ND ADXRS401ABG-ND	49.50 49.50 42.00	46.20 46.20 39.20	42.90 42.90 36.40

* Not recommended for new design § For Tape and Reel part number, change CT-ND to TR-ND.

iMEMS® Evaluation Boards

ADXRS150EB-ND	Evaluation Board for the ADXRS150, ±150°/s Single Chip Rate Gyro	.....\$53.75	ADXL321EB-ND	Evaluation Board for ADXL321	.....\$32.20
ADXL203EB-ND	Evaluation Board for ADXL203	.....\$32.20	ADXL330Z-ND	Evaluation Board for ADXL330	.....\$68.59
ADXL204EB-ND	Evaluation Board for the ADXL204CE, Dual Axis Accelerometer	.....\$32.20	ADXR401EB-ND	Evaluation Board for ADXR401ABG	.....\$53.75
ADXL213EB-ND	Evaluation Board for ADXL213	.....\$32.20			
ADXRS300EB-ND	Evaluation Board for the ADXR300, ±300°/s Single Chip Rate Gyro	.....\$53.75			

ANALOG DEVICES iSensor™ Intelligent Sensors

iSensor ADIS Accelerometers/Gyros enhance ADXL/ADXRS iMEMS accelerometers with additional performance and functionality, such as embedded signal processing and control. These inertial sensors

address special requirements such as calibration/tuning, application specific interfaces, digital I/O, wireless links, embedded intelligence and programmability, power management, and analog signal conditioning.

Description	Sensor Core	Output Type	Sensitivity	Temperature Sensor	Voltage Supply (V)	Supply Current (mA)	Temperature Range (°C)	Package (mm/type)	Digi-Key Part No.	Price Each		
										1	25	100
ADIS Accelerometers — RoHS Compliant												
±1.7g Accelerometer	Accelerometer	SPI	820 LSB/g	Yes	3 - 5.25	1.5 (typical)	-40 - 125	12 LGA	ADIS16003CCCZ-ND	32.63	30.45	28.28
±5g Accelerometer	Accelerometer	SPI	256 LSB/g	Yes	3 - 5.25	1.5 (typical)	-40 - 125	12 LGA	ADIS16006CCCZ-ND	32.63	30.45	28.28
Programmable, ±5g Accelerometer	Accelerometer/Incl.	SPI	2 LSB/mg (10LSB°)	Yes	3 - 3.6	11 (5 in Standby)	-40 - 125	16 LGA	ADIS16201CCCZ-ND	43.43	40.53	37.64
Programmable, Single Axis Inclinometer	360° Inclinometer	SPI	0.025°/LSB	Yes	3 - 3.6	11 (5 in Standby)	-40 - 125	16 LGA	ADIS16203CCCZ-ND	43.43	40.53	37.64
Programmable, High-g Sensor/Recorder	Accel./Impact Sensor	SPI	±70g; ±37g	Yes	3 - 3.6	12 (5 in Standby)	-40 - 105	16 LGA	ADIS16204BCCZ-ND	37.43	34.93	32.44
Digital Dual Axis Accel./Inclinometer	Accel./Inclinometer	SPI	0.025°/LSB	Yes	3 - 3.6	14	-40 - 125	16 LGA	ADIS16209CCCZ-ND NEW!	62.84	58.65	54.46

Range (°/s)	Sensitivity	Output	Bandwidth (Maximum)	Noise Density (°/s / √Hz rms)	Temperature Sensor	Voltage Reference (V)	Supply Voltage (V)	Supply Current (mA)	Temperature Range (°C)	Digi-Key Part No.	Price Each		
											1	25	100
ADIS Gyroscopes													
±80	0.0122 °/s /LSB	SPI	1000Hz	0.04	Yes	Yes	4.75 - 5.25	6.5	-40 - 105	ADIS16060BCCZ-ND NEW!	61.35	57.26	53.17
±80	0.098 °/s /LSB	SPI	40Hz	0.05	Yes	Yes	4.75 - 5.25	7	-40 - 85	ADIS16080ACCZ-ND NEW!	61.35	57.26	53.17
±300	0.244 °/s /LSB	SPI	40Hz	0.10	Yes	Yes	4.75 - 5.25	7	-40 - 85	ADIS16100ACC-ND	61.35	57.26	53.17
±300	0.2 °/s /mV	Analog	320Hz	0.015	Yes	Yes	4.75 - 5.25	100	-40 - 85	ADIS16120AMLZ-ND NEW!	999.75	933.10	866.45
±250	0.00042 °/s /LSB	SPI	320Hz	0.0125	Yes	Yes	4.75 - 5.25	73	-40 - 85	ADIS16130AMLZ-ND NEW!	848.82	792.24	735.65
±80 - ±320	0.018 °/s /LSB	SPI	50Hz	0.056	Yes	Yes	4.75 - 5.25	18	-40 - 85	ADIS16250ACCZ-ND NEW!	73.88	68.95	64.03
±20 - ±80	0.004 °/s /LSB	SPI	50Hz	0.05	Yes	Yes	4.75 - 5.25	18	-40 - 85	ADIS16251ACCZ-ND NEW!	73.88	68.95	64.03
±80 - ±320	0.018 °/s /LSB	SPI	50Hz	0.05	Yes	Yes	4.75 - 5.25	18	-40 - 85	ADIS16255ACCZ-ND NEW!	98.07	91.54	85.00
±75 - ±300	0.018 °/s /LSB	SPI	350Hz	0.05	Yes	Yes	4.75 - 5.25	35	-40 - 85	ADIS16350AMLZ-ND NEW!	510.00	476.00	442.00
±75 - ±300	0.018 °/s /LSB	SPI	350Hz	0.05	Yes	Yes	4.75 - 5.25	33	-40 - 85	ADIS16354AMLZ-ND NEW!	597.00	557.20	517.40
±75 - ±300	0.018 °/s /LSB	SPI	350Hz	0.05	Yes	Yes	4.75 - 5.25	33	-40 - 85	ADIS16355AMLZ-ND NEW!	585.00	—	—

◆ RoHS Compliant

iSensor™ Evaluation Boards

ADIS16003/PCBZ-ND	Evaluation Board for the ADIS16003, ±1.7g, Dual Axis Accelerometer	.....\$56.25	ADIS16250/PCBZ-ND	Evaluation Board for the ADIS16250	.....\$84.38
ADIS16006/PCBZ-ND	Evaluation Board for ADIS16006/PCB	.....\$56.25	ADIS16251/PCBZ-ND	Evaluation Board for ADIS16251	.....\$84.38
ADIS16060/PCBZ-ND	NEW! Evaluation Board for ADIS16060	.....\$84.38	ADIS16255/PCBZ-ND	Evaluation Board for the ADIS16255	.....\$84.38
ADIS16080/PCBZ-ND	Evaluation Board for ADIS16080	.....\$84.38	ADIS16350/EVALZ-ND	Tri Axis Inertial Sensor Evaluation Kit	.....\$646.88
ADIS16100/PCB-ND	Evaluation Board for the ADIS16100, ±300°/Sec. Yaw Rate Gyro	.....\$84.38	ADIS16350/PCBZ-ND	Evaluation Board for Tri Gyro Accelerometer	.....\$534.38
ADIS16120/PCB-ND	Evaluation Board for the ADIS16120	.....\$1350.00	ADIS16354/EVALZ-ND	NEW! Tri Axis Inertial Sensor Evaluation Kit	.....\$786.38
ADIS16201/PCBZ-ND	Evaluation Board for the ADIS16201	.....\$84.38	ADIS16354/PCBZ-ND	NEW! Evaluation Board for ADIS16354	.....\$673.88
ADIS16203/PCBZ-ND	Programmable, Dual-Axis Inclinometer/Accelerometer	.....\$84.38	ADIS16355/PCBZ-ND	NEW! Evaluation Board for ADIS16355	.....\$673.88
ADIS16204/PCBZ-ND	Evaluation Board for the ADIS16203	.....\$84.38	ADISEVALZ-ND	iSensor PC Evaluation System	.....\$196.88
ADIS16209/PCBZ-ND	Evaluation Board for ADIS16204/PCB	.....\$84.38	ADISEVAL/USBZ-ND	iSensor PC Evaluation System	.....\$196.88
ADIS16209/PCBZ-ND	NEW! Evaluation Board for ADIS16209	.....\$84.38			

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

More Product Available Online: www.digikey.com

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