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Россия +7(495)268-04-70 Казахстан +7(7172)727-132 Киргизия +996(312)96-26-47

эл.почта: agu@nt-rt.ru || сайт: https://analog.nt-rt.ru/

Accelerometers

Parts	Description	Product Lifecycle	# of Axes	Accelerometer Range	BW typ	Output Type	Sensing Axis	Is typ	Vs+ min	Vs+ max
ADXL358	Low Noise, Low Drift, Low Power, 3-Axis MEMS Accelerometer	RECOMMENDED FOR NEW DESIGNS	3	10 g, 20 g, 40 g	2.4k	Analog	X, Y, Z	150µ	2.25	3.6
ADXL359	Low Noise, Low Drift, Low Power 3-Axis MEMS Accelerometer	RECOMMENDED FOR NEW DESIGNS	3	10 g, 20 g, 40 g	-	Digital	X, Y, Z	200µ	2.25	3.6
ADXL314	±200 g Range, 3-Axis Digital Accelerometer	RECOMMENDED FOR NEW DESIGNS	3	+/-200g	1.6k	I²C, SPI	X, Y, Z	170µ	2	3.6
ADXL367	Nanopower, 3-Axis, ±2 g/±4 g/±8 g Digital Output MEMS Accelerometer	RECOMMENDED FOR NEW DESIGNS	3	2 g, 4 g, 8 g	200	I²C, SPI	X, Y, Z	890n	1.1	3.6
ADXL371	Micropower, 3-Axis, ±200 g Digital Output, MEMS Accelerometer	RECOMMENDED FOR NEW DESIGNS	3	200 g	3.2k	I²C, SPI	X, Y, Z	22µ	1.6	3.5
ADXL317	3-Axis, ±16 g, I2S Digital Accelerometer	RECOMMENDED FOR NEW DESIGNS	3	16 g	4k	I²C, I2S	X, Y, Z	5m	3	3.6
ADCMXL1021-1	Wide Bandwidth, Low Noise, Vibration Sensor	RECOMMENDED FOR NEW DESIGNS	1	50 g	10k	Digital, SPI	Z	23.9m	3	3.6
ADXL1003	Low Noise, Wide Bandwidth, MEMS Accelerometer	RECOMMENDED FOR NEW DESIGNS	1	200 g	15k	Analog	X	1m	3	5.5
ADXL1005	Low Noise, Wide Bandwidth, MEMS Accelerometer	RECOMMENDED FOR NEW DESIGNS	1	100 g	23k	Analog	X	1m	3	5.25
ADXL1004	Low Noise, Wide Bandwidth, MEMS Accelerometer	RECOMMENDED FOR NEW DESIGNS	1	500 g	24k	Analog	X	1m	3.3	5.25
ADXL251	Dual-Axis, 60 g to 480 g Sensor with SPI and PSI5	LAST TIME BUY	2	120 g, 240 g, 480 g, 60 g	400	PSI5, SPI	X, Y	6m	3.135	11
ADXL1001	Low Noise, High Frequency +/-100g MEMS Accelerometer	RECOMMENDED FOR NEW DESIGNS	1	100 g	11k	Analog	X	1m	3.3	5.25
ADXL1002	Low Noise, High Frequency +/-50g MEMS Accelerometer	RECOMMENDED FOR NEW DESIGNS	1	50 g	11k	Analog	X	1m	3.3	5.25

	Description	Product Lifecycle	# of Axes	Accelerometer Range	BW typ	Output Type	Sensing Axis	Is typ	Vs+ min	Vs+ max
ADXL372	Micropower, 3-Axis, ±200 g Digital Output, MEMS	RECOMMENDED FOR NEW DESIGNS	3	200 g	3.2k	I²C, SPI	X, Y, Z	22µ	1.6	3.5
ADXL356	Low Noise, Low Drift, Low Power, 3-Axis MEMS Accelerometer	RECOMMENDED FOR NEW DESIGNS	3	10 g, 20 g, 40 g	2.4k	Analog	X, Y, Z	150µ	2.25	3.6
ADXL357	Low Noise, Low Drift, Low Power, 3-Axis MEMS Accelerometers with Digital Output	RECOMMENDED FOR NEW DESIGNS	3	10 g, 20 g, 40 g	1k	I²C, SPI	X, Y, Z	200µ	2.25	3.6
ADXL354	Low Noise, Low Drift, Low Power, 3-Axis MEMS Accelerometers	RECOMMENDED FOR NEW DESIGNS	3	2 g, 4 g, 8 g	1.9k	Analog	X, Y, Z	150µ	2.25	3.6
ADXL355	Low Noise, Low Drift, Low Power, 3-Axis MEMS Accelerometers	RECOMMENDED FOR NEW DESIGNS	3	2 g, 4 g, 8 g	1k	I²C, SPI	X, Y, Z	200µ	2.25	3.6
ADXL151	Low Cost, Single Axis, PSI5-Compatible Satellite Sensor	LAST TIME BUY	1	120 g, 240 g, 480 g	400	PSI5	X	5m	4.5	11
ADXL316	Small, Low Power, 3-Axis, ±16 g Accelerometer	RECOMMENDED FOR NEW DESIGNS	3	16 g	1.6k	Analog	X, Y, Z	350µ	1.8	3.6
ADXL700	High Precision, Low-g, Digital Triaxial Accelerometer	RECOMMENDED FOR NEW DESIGNS	3	14.2 g	-	SPI	X, Y, Z	5m	3.135	5.25
ADXL185B	Low Cost, Single Z-Axis PSI5-Compatible Satellite Sensor	NOT RECOMMENDED FOR NEW DESIGNS	1	120 g, 240 g, 30 g, 480 g, 60 g	398	PSI5	Z	5m	-	11
ADXL189B	Low Cost, Single X-Axis PSI5-Compatible Satellite Sensor	PRODUCTION	1	120 g, 240 g, 30 g, 480 g, 60 g	398	PSI5	X	5m	-	11
ADXL363	Micropower 3-Sensor Combination Including Acceleration and Temperature	RECOMMENDED FOR NEW DESIGNS	3	2 g, 4 g, 8 g	200	SPI	X, Y, Z	1.8µ	1.6	3.5
ADXL375	3-Axis, ±200 g Digital MEMS Accelerometer	RECOMMENDED FOR NEW DESIGNS	3	200 g	1.6k	I²C, SPI	X, Y, Z	145µ	2	3.6
ADXL313	3-Axis, ±0.5 g/±1 g/±2 g/±4 g Digital Accelerometer	RECOMMENDED FOR NEW DESIGNS	3	0.5 g, 1 g, 2 g, 4 g	1.6k	I²C, SPI	X, Y, Z	170µ	2	3.6
ADXL195	Single-axis, High Performance Accelerometer with Dual Spectrum Signal Processing	NOT RECOMMENDED FOR NEW DESIGNS	1	120 g	408	SPI	X	-	3.135	5.25
ADXL288	High Performance, Dual-Axis Digital Output Accelerometer	LAST TIME BUY	2	120 g	408	SPI	X, Y	7m	3.135	5.25

	Description	Product Lifecycle	# of Axes	Accelerometer Range	BW typ	Output Type	Sensing Axis	Is typ	Vs+ min	Vs+ max
ADXL295	Dual-axis, High Performance Accelerometer with Dual Spectrum Signal Processing	NOT RECOMMENDED FOR NEW DESIGNS	2	120 g	408	SPI	X, Y	7m	3.135	5.25
ADXL377	Small, Low Power, 3-Axis ±200 g Accelerometer	LAST TIME BUY	3	200 g	1.6k	Analog	X, Y, Z	300µ	1.8	3.6
ADXL362	Micropower, 3-Axis, ±2 g/±4 g/±8 g Digital Output MEMS Accelerometer	RECOMMENDED FOR NEW DESIGNS	3	2 g, 4 g, 8 g	200	SPI	X, Y, Z	1.8µ	1.6	3.5
ADXL343	3-Axis, ±2 g/±4 g/±8 g/±16 g Digital Accelerometer	RECOMMENDED FOR NEW DESIGNS	3	16 g, 2 g, 4 g, 8 g	1.6k	I²C, SPI	X, Y, Z	140µ	2	3.6
ADXL344	3-Axis, ±2 g/±4 g/±8 g/±16 g Ultralow Power Digital Accelerometer	RECOMMENDED FOR NEW DESIGNS	3	16 g, 2 g, 4 g, 8 g	1.6k	I²C, SPI	X, Y, Z	140µ	1.7	2.75
ADXL350	3-Axis ±1g/±2g/±4g/±8g Digital Accelerometer	RECOMMENDED FOR NEW DESIGNS	3	1 g, 2 g, 4 g, 8 g	1.6k	I²C, SPI	X, Y, Z	166µ	2	3.6
ADXL206	Precision, ±5 g, Dual-Axis, High Temperature iMEMS Accelerometer	RECOMMENDED FOR NEW DESIGNS	2	5 g	400	Analog	X, Y	700µ	4.75	5.25
ADXL212	Low Cost ±2g Dual Axis Accelerometer	NOT RECOMMENDED FOR NEW DESIGNS	2	2 g	500	PWM	X, Y	700µ	3	5.25
ADIS16210	Precision Triaxial Inclinometer and Accelerometer with SPI	RECOMMENDED FOR NEW DESIGNS	3	1.7 g	50	SPI	X, Y, Z	18m	3	3.6
ADXL337	Small, Low Power, 3-Axis ±3 g Accelerometer	NOT RECOMMENDED FOR NEW DESIGNS	3	3 g	1.6k	Analog	X, Y, Z	350µ	1.8	3.6
ADXL312	3-Axis, ±1.5 g/±3 g/±6 g/±12 g Digital Accelerometer	RECOMMENDED FOR NEW DESIGNS	3	1.5 g, 12 g, 3 g, 6 g	1.6k	I²C, SPI	X, Y, Z	170µ	2	3.6
ADXL346	3-Axis, ±2 g/±4 g/±8 g/±16 g Ultralow Power Digital Accelerometer	PRODUCTION	3	16 g, 2 g, 4 g, 8 g	1.6k	I²C, SPI	X, Y, Z	140µ	1.7	2.75
ADIS16240	Low Power Programmable Impact Sensor and Recorder	RECOMMENDED FOR NEW DESIGNS	3	19 g	1.6k	SPI	X, Y, Z	1m	2.4	3.6
ADXL325	Small, Low Power, 3-Axis ±5 g Accelerometer	PRODUCTION	3	6 g	1.6k	Analog	X, Y, Z	350µ	1.8	3.6
ADXL326	Small, Low Power, 3-Axis ±16 g Accelerometer	PRODUCTION	3	16 g	1.6k	Analog	X, Y, Z	350µ	1.8	3.6

	Description	Product Lifecycle	# of Axes	Accelerometer Range	BW typ	Output Type	Sensing Axis	Is typ	Vs+ min	Vs+ max
ADXL327	Small, Low Power, 3-Axis ±2 g Accelerometer	PRODUCTION	3	2 g	1.6k	Analog	X, Y, Z	350µ	1.8	3.6
ADXL345	3-Axis, ±2 g/±4 g/±8 g/±16 g Digital Accelerometer	PRODUCTION	3	16 g, 2 g, 4 g, 8 g	1.6k	I²C, SPI	X, Y, Z	140µ	2	3.6
ADXL335	Small, Low Power, 3-Axis ±3 g Accelerometer	PRODUCTION	3	3 g	1.6k	Analog	X, Y, Z	350µ	1.8	3.6
ADXL180	Configurable, High-g, iMEMS® Accelerometer	NOT RECOMMENDED FOR NEW DESIGNS	1	50 g	400	2-wire HV or I	X	7.7m	5	14.5
ADIS16209	High Accuracy, Dual-Axis Digital Inclinometer and Accelerometer	RECOMMENDED FOR NEW DESIGNS	1	±180°, ±90°	50	SPI	X, Y, Z	14m	3	3.6
ADXL203	Precision ±1.7 g, ±5 g, ±18 g Dual-Axis iMEMS® Accelerometer	RECOMMENDED FOR NEW DESIGNS	2	1.7 g	2.5k	Analog	X, Y	700µ	3	6
ADIS16003	Dual-Axis ±1.7 g Accelerometer with SPI Interface	PRODUCTION	2	1.7 g	2.25k	SPI	X, Y	1.4m	3	5.25
ADIS16006	Dual-Axis ±5 g Accelerometer with SPI Interface	PRODUCTION	2	5 g	2.25k	SPI	X, Y	1.4m	3	5.25
ADXL103	Precision ±1.7 g or ±18 g Single-Axis iMEMS® Accelerometer	RECOMMENDED FOR NEW DESIGNS	1	1.7 g	2.5k	Analog	X	700µ	3	6
ADXL213	Low Cost ±1.2g Dual Axis Accelerometer	RECOMMENDED FOR NEW DESIGNS	2	1.2 g	2.5k	PWM	X, Y	700µ	3	6
ADIS16201	Programmable Dual-Axis Inclinometer/Accelerometer	PRODUCTION	2	1.7 g	2.25k	SPI	X, Y	11m	3	3.6
ADIS16203	Programmable 360° Inclinometer	PRODUCTION	1	±180°	2.25k	SPI	Z	11m	3	3.6

Accelerometers - Special Purpose

Parts	Description	Product Lifecycle	Accelerometer Range	Special Features	Noise Density typ	BW typ	Output Type	Sensing Axis	Is typ	Vs+ min	Vs+ max
ADXL317	3-Axis, ±16 g, I2S Digital Accelerometer	RECOMMENDED FOR NEW DESIGNS	16 g	3.3 V Supply, A2B Compatible, Active Noise Cancellation, Automotive qualified, Condition Based Monitoring, I2C	55	4k	I²C, I2S	X, Y, Z	5m	3	3.6
ADCMXL1021-1	Wide Bandwidth, Low Noise, Vibration Sensor	RECOMMENDED FOR NEW DESIGNS	50 g	Internal FFT Calculation, Serial SPI, Vibration	26µ	10k	Digital, SPI	Z	23.9m	3	3.6
ADCMXL3021	Wide Bandwidth, Low Noise, Triaxial Vibration Sensor	PRODUCTION	50 g	Spectral Analysis through Internal FFT, Vibration	26µ	10k	Digital, SPI	X, Y, Z	31m	3	3.6
ADXL251	Dual-Axis, 60 g to 480 g Sensor with SPI and PSI5	LAST TIME BUY	120 g, 240 g, 480 g, 60 g	Automotive Safety	-	400	PSI5, SPI	X, Y	6m	3.135	11
ADXL372	Micropower, 3-Axis, ±200 g Digital Output, MEMS	RECOMMENDED FOR NEW DESIGNS	200 g	Concussion Sensing, Shock	-	3.2k	I²C, SPI	X, Y, Z	22µ	1.6	3.5
ADXL151	Low Cost, Single Axis, PSI5-Compatible Satellite Sensor	LAST TIME BUY	120 g, 240 g, 480 g	Automotive Safety	-	400	PSI5	X	5m	4.5	11
ADXL700	High Precision, Low-g, Digital Triaxial Accelerometer	RECOMMENDED FOR NEW DESIGNS	14.2 g	Automotive Safety, Inclinometer	-	-	SPI	X, Y, Z	5m	3.135	5.25
ADXL185B	Low Cost, Single Z-Axis PSI5-Compatible Satellite Sensor	NOT RECOMMENDED FOR NEW DESIGNS	120 g, 240 g, 30 g, 480 g, 60 g	Automotive Safety	-	398	PSI5	Z	5m	-	11
ADXL189B	Low Cost, Single X-Axis PSI5-Compatible Satellite Sensor	PRODUCTION	120 g, 240 g, 30 g, 480 g, 60 g	Automotive Safety	-	398	PSI5	X	5m	-	11
ADXL363	Micropower 3-Sensor Combination Including Acceleration and Temperature	RECOMMENDED FOR NEW DESIGNS	2 g, 4 g, 8 g	Power Management, Vital Sign Monitor	550µ	200	SPI	X, Y, Z	1.8µ	1.6	3.5
ADXL375	3-Axis, ±200 g Digital MEMS Accelerometer	RECOMMENDED FOR NEW DESIGNS	200 g	Concussion Sensing, Shock	5m	1.6k	I²C, SPI	X, Y, Z	145µ	2	3.6

	Description	Product Lifecycle	Accelerometer Range	Special Features	Noise Density typ	BW typ	Output Type	Sensing Axis	Is typ	Vs+ min	Vs+ max
ADXL195	Single-axis, High Performance Accelerometer with Dual Spectrum Signal Processing	NOT RECOMMENDED FOR NEW DESIGNS	120 g	Automotive Safety, Vibration	-	408	SPI	X	-	3.135	5.25
ADXL288	High Performance, Dual-Axis Digital Output Accelerometer	LAST TIME BUY	120 g	Automotive Safety	-	408	SPI	X, Y	7m	3.135	5.25
ADXL295	Dual-axis, High Performance Accelerometer with Dual Spectrum Signal Processing	NOT RECOMMENDED FOR NEW DESIGNS	120 g	Automotive Safety, Vibration	-	408	SPI	X, Y	7m	3.135	5.25
ADXL377	Small, Low Power, 3-Axis ±200 g Accelerometer	LAST TIME BUY	200 g	Concussion Sensing, Shock	2.7m	1.6k	Analog	X, Y, Z	300µ	1.8	3.6
ADXL362	Micropower, 3-Axis, ±2 g/±4 g/±8 g Digital Output MEMS Accelerometer	RECOMMENDED FOR NEW DESIGNS	2 g, 4 g, 8 g	Power Management, Vital Sign Monitor	175µ	200	SPI	X, Y, Z	1.8µ	1.6	3.5
ADXL206	Precision, ±5 g, Dual-Axis, High Temperature iMEMS Accelerometer	RECOMMENDED FOR NEW DESIGNS	5 g	Inclinometer	110µ	400	Analog	X, Y	700µ	4.75	5.25
ADIS16210	Precision Triaxial Inclinometer and Accelerometer with SPI	RECOMMENDED FOR NEW DESIGNS	1.7 g	Inclinometer	190µ	50	SPI	X, Y, Z	18m	3	3.6
ADIS16240	Low Power Programmable Impact Sensor and Recorder	RECOMMENDED FOR NEW DESIGNS	19 g	Shock	480µ	1.6k	SPI	X, Y, Z	1m	2.4	3.6
ADXL180	Configurable, High-g, iMEMS® Accelerometer	NOT RECOMMENDED FOR NEW DESIGNS	50 g	Automotive Safety	4m	400	2-wire HV or I	X	7.7m	5	14.5
ADIS16209	High Accuracy, Dual-Axis Digital Inclinometer and Accelerometer	RECOMMENDED FOR NEW DESIGNS	±180°, ±90°	Inclinometer	190µ	50	SPI	X, Y, Z	14m	3	3.6
ADIS16201	Programmable Dual-Axis Inclinometer/Accelerometer	PRODUCTION	1.7 g	Inclinometer	190µ	2.25k	SPI	X, Y	11m	3	3.6
ADIS16203	Programmable 360° Inclinometer	PRODUCTION	±180°	Inclinometer	-	2.25k	SPI	Z	11m	3	3.6
ADXL152	Low Cost, Single-Axis, PSI5-Compatible Satellite Sensor	LAST TIME BUY	120 g, 240 g, 480 g	Automotive Safety	-	820	PSI5	X	5m	4.5	11

Bio-Sensors

Parts	Description	Product Lifecycle	# Channels	Sensor Primary Function	Comments	Resolution	Interface	Target Applications
MAX86165	Miniature Optical Heart Rate Module	RECOMMENDED FOR NEW DESIGNS	1	Optical Module	-	20	I²C	Arrhythmia Detection Patches, At-home Monitoring, Hearables, Heart Rate, Heart Rate Variability, PPG, Remote Patient Monitors (RPM), SPO2, Vital Signs, Wearable Devices, Wearable devices for Fitness, Wearable Patient Monitors, Wellness and Medical, Wellness Watches
ADA4351-2	Compact, Dual-Channel, Precision, Programmable Gain Transimpedance Amplifier (PGTIA)	RECOMMENDED FOR NEW DESIGNS	2	Programmable Gain Amplfier	Small, Dual-Channel, Precision, Programmable-Gain, Transimpedance Amplifiers (PGTIAs)	-	-	-
ADUCM356	Precision Analog Microcontroller with Chemical Sensor Interface	RECOMMENDED FOR NEW DESIGNS	2	Precision Microcontroller	Precision Analog Microcontroller with Chemical Sensor Interface	16	I2C/SMBus	Bioimpedance Measurement, Gas Sensors
MAX86180	High SNR Dual-Channel AFE for Multi-Wavelength Optical Spectroscopy	RECOMMENDED FOR NEW DESIGNS	2	Analog Front End, Optical Mixed Signal	Best-in-Class Optical Pulse Oximeter and Heart-Rate Sensor AFE for Wearable Health	20	I2C/SMBus, SPI	At-home Monitoring, Finger-based, Infectious Disease detection wearable, PPG, Remote Patient Monitors (RPM), SPO2, Vital Signs, Wearable Devices, Wearable devices for Fitness, Wearable Patient Monitors, Wellness and Medical, Wellness Watches, Wrist-HRM
MAX30210	±0.1°C Accurate, Ultra-Small, Low-Power I2C Digital Temperature Sensor	PRODUCTION	1	Temperature Sensor	Low Power, High Accuracy, Small Form size, Digital Temperature Sensor	16	I2C/SMBus	Wearable Devices, Wearable Patient Monitors
ADPD4200	Multimodal Sensor Front End	RECOMMENDED FOR NEW DESIGNS	4	Analog Front End	Multimodal Sensor Front End	32	SPI	Wearable Devices, Wearable Patient Monitors, Wrist-HRM
MAX86177	Quad-Channel AFE for Low-Power Heart Rate Monitor and Pulse Oximeter	PRODUCTION	1	Optical Mixed Signal	Best-in-Class Optical Pulse Oximeter and Heart-Rate Sensor AFE for Wearable Health	20	-	Hearables, Remote Patient Monitors (RPM), Wearable Devices, Wearable devices for Fitness, Wearable Patient Monitors, Wellness and Medical, Wellness Watches, Wrist-worn

	Description	Product Lifecycle	# Channels	Sensor Primary Function	Comments	Resolution	Interface	Target Applications
MAX30001G	Ultra-Low-Power, Single-Channel Integrated Biopotential (ECG and R-to-R) and Bioimpedance (Resp, GSR/EDA) AFE	PRODUCTION	1	Bioimpedance Analog Front End	Ultra-Low-Power, Single-Channel IntegratedBiopotential (ECG and R-to-R) and Bioimpedance (BioZ) AFE	20	SPI	ECG AFE, GSR measurements
MAX30009	Low-Power, High-Performance Bioimpedance Analog Front-End	PRODUCTION	1	Bioimpedance Analog Front End	Low-Power, High-Performance Bioimpedance AFE	20	SPI	Arrhythmia Detection Patches, At-home Monitoring, BIA and BIS measurement's, Chest Straps, ICG measurement's, Wearable Devices
MAX30207	±0.1°C Accurate, 1-Wire® Digital Temperature Sensor	PRODUCTION	1	Temperature Sensor	±0.1°C Accurate, 1-Wire Digital Temperature Sensor	16	1-Wire	At-home Monitoring, Covid Detection Patches, Infectious Disease detection wearable, Remote Patient Monitors (RPM), Wearable Devices, Wrist-worn
MAX86173	Dual-Channel Optical AFE with High Signal-to-Noise Ratio for Wearable Health	RECOMMENDED FOR NEW DESIGNS	1	Optical Mixed Signal	Best-in-Class Optical Pulse Oximeter and Heart-Rate Sensor AFE for Wearable Health	19	-	Finger-based, Hearables, Wrist-worn
MAX86178	Ultra-Low-Power, Clinical-Grade Vital-Sign AFE	PRODUCTION	1	Analog Front End, Bioimpedance Analog Front End	Ultra-Low Power, Clinical-Grade Vital Signs AFE	20	-	Arrhythmia Detection Patches, Covid Detection Patches, Disposable ECG Monitors, Infectious Disease detection wearable, Wearable Patient Monitors
ADAS1021	5-Channel ECG AFE with Respiration, Pacemaker Detection and Lead-Off/Quality Detection	RECOMMENDED FOR NEW DESIGNS	5	Biopotential Sensor	5-Channel ECG AFE with Respiration, Pacemaker Detection and Lead-Off/Quality Detection	-	SPI	ECG, ECG Monitors
MAX86174A	Best-in-Class Optical Pulse Oximeter and Heart-Rate Sensor AFE for Wearable Health	PRODUCTION	1	Optical Mixed Signal	Best-in-Class Optical Pulse Oximeter and Heart-Rate Sensor AFE for Wearable Health	20	-	At-home Monitoring, Finger-based, Infectious Disease detection wearable, Wearable Devices, Wrist-worn
MAX86174B	Best-in-Class Optical Pulse Oximeter and Heart-Rate Sensor AFE for Wearable Health	PRE-RELEASE	1	Optical Mixed Signal	Best-in-Class Optical Pulse Oximeter and Heart-Rate Sensor AFE for Wearable Health	20	-	At-home Monitoring, Finger-based, Infectious Disease detection wearable, Wearable Devices, Wrist-worn

	Description	Product Lifecycle	# Channels	Sensor Primary Function	Comments	Resolution	Interface	Target Applications
MAX30005	Ultra-Low-Power, Optical PPG and Single-Lead ECG AFE	PRODUCTION	1	Optical Mixed Signal	Ultra-Low-Power, Optical PPG and Single-Lead ECG AFE	18	-	Arrhythmia Detection Patches, Chest Straps, Covid Detection Patches, Disposable ECG Monitors, ECG AFE, Infectious Disease detection wearable, Wearable Patient Monitors, Wrist-worn
MAX86176	Ultra-Low-Power, Optical PPG and Single-Lead ECG AFE	PRODUCTION	1	Optical Mixed Signal	Ultra-Low Power, Optical PPG and Single Lead ECG AFE with Integrated Leads-Off Detection	19	-	Arrhythmia Detection Patches, At-home Monitoring, Disposable ECG Monitors, ECG Monitors, Finger-based, Wearable Devices, Wearable Patient Monitors, Wrist-worn
ADA4355	Programmable Transimpedance, Current to Bits Receiver µModule	RECOMMENDED FOR NEW DESIGNS	-	-	Programmable Transimpedance, Current to Bits Receiver µModule	-	-	-
ADPD4100	Multimodal Sensor Front End	RECOMMENDED FOR NEW DESIGNS	8	Optical Mixed Signal	Multimodal Sensor Front End	14	SPI	Angle Sensor, Contact Impedance, ECG, PPG, Proximity, Smoke Detection, SPO2, Vital Signs, Wrist-HRM
ADPD4101	Multimodal Sensor Front End	RECOMMENDED FOR NEW DESIGNS	8	Optical Mixed Signal	Multimodal Sensor Front End	14	I2C/SMBus	Angle Sensor, Contact Impedance, ECG, PPG, Proximity, Smoke Detection, SPO2, Vital Signs, Wrist-HRM
MAX86170A	Best-in-Class Optical Pulse Oximeter and Heart-Rate Sensor AFE for Wearable Health	RECOMMENDED FOR NEW DESIGNS	1	Optical Mixed Signal	Best-in-Class Optical Pulse Oximeter and Heart-Rate Sensor AFE for Wearable Health	19	-	Finger-based, Hearables, Wearable Devices, Wearable Patient Monitors, Wrist-worn
MAXM86146	Complete Optical Biosensing Module with Ultra-Low-Power Biometric Sensor Hub	RECOMMENDED FOR NEW DESIGNS	1	Optical Module, Sensor Hub	Complete Optical Biosensing Module with Ultra-Low-Power Biometric Sensor Hub	19	I2C/SMBus	At-home Monitoring, Wearable Devices, Wearable Patient Monitors, Wrist-worn
MAX86916	Integrated Optical Sensor Module for Mobile Health	RECOMMENDED FOR NEW DESIGNS	1	Optical Module	Integrated Optical Sensor Module for Mobile Health	19	I2C/SMBus	At-home Monitoring, Finger-based, Wearable Devices, Wearable Patient Monitors
MAX86170B	Low-Noise AFE for Pulse Oximeter and Heart Rate Monitor	PRODUCTION	1	Optical Mixed Signal	Best-in-Class Optical Pulse Oximeter and Heart-Rate Sensor AFE for Wearable Health	19	-	At-home Monitoring, Hearables, Wearable Devices, Wearable Patient Monitors, Wrist-worn

	Description	Product Lifecycle	# Channels	Sensor Primary Function	Comments	Resolution	Interface	Target Applications
MAX86171	Low-Noise AFE for Pulse Oximeter and Heart Rate Monitor	PRODUCTION	1	Optical Mixed Signal	Best-in-Class Optical Pulse Oximeter and Heart-Rate Sensor for Wearable Health	19	-	At-home Monitoring, Finger-based, Wearable Devices, Wearable Patient Monitors, Wrist-worn
AD5941	High Precision, Impedance & Electrochemical Front End	RECOMMENDED FOR NEW DESIGNS	1	Electrochemical Front End	High Precision, Impedance & Electrochemical Front End	16	SPI	Bioimpedance Measurement, Electrochemical Measurements, Gas Sensors
ADPD4000	Multimodal Sensor Front End	PRODUCTION	8	Optical Mixed Signal	Multimodal Sensor Front End	14	SPI	Angle Sensor, Contact Impedance, ECG, PPG, Smoke Detection, SPO2, Vital Signs, Wrist-HRM
ADPD4001	Multimodal Sensor Front End	PRODUCTION	8	Optical Mixed Signal	Multimodal Sensor Front End	14	I2C/SMBus	Angle Sensor, Contact Impedance, ECG, PPG, Smoke Detection, SPO2, Vital Signs, Wrist-HRM
MAXM86161	Single-Supply Integrated Optical Module for HR and SpO2 Measurement	PRODUCTION	1	Optical Module	Single-Supply Integrated Optical Module for HR and SpO2 Measurement	19	I2C/SMBus	Finger-based, Hearables, Wearable Devices
MAX30208	±0.1°C Accurate, I2C Digital Temperature Sensor	PRODUCTION	1	Temperature Sensor	Low power, High-Accuracy Digital Temperature Sensor	16	I2C/SMBus	Wearable Devices, Wearable Patient Monitors, Wrist-worn
ADPD144RI	PPG Optical Sensor Module with Integrated Red/IR Emitters and AFE	NOT RECOMMENDED FOR NEW DESIGNS	1	Optical Mixed Signal	PPG Optical Sensor Module with Integrated Red/IR Emitters and AFE	-	I2C/SMBus	SPO2
AD5940	High Precision, Impedance & Electrochemical Front End	RECOMMENDED FOR NEW DESIGNS	1	Electrochemical Front End	High Precision, Impedance & Electrochemical Front End	16	SPI	Bioimpedance Measurement, Electrochemical Measurements, Gas Sensors
MAX30002	Ultra-Low-Power, Single-Channel Integrated Bioimpedance (BioZ) AFE	PRODUCTION	1	Bioimpedance Analog Front End	Ultra-Low-Power Single-Channel Integrated Bioimpedance Analog Front End	20	SPI	At-home Monitoring, Wearable Devices, Wearable Patient Monitors
ADPD1081	Photometric Front Ends	RECOMMENDED FOR NEW DESIGNS	1	Optical Mixed Signal	Multimodal Sensor Front End	14	SPI	Contact Impedance, ECG, Gesture, Position, PPG, Proximity, SPO2, Vital Signs, Wrist-HRM
ADPD1080	Photometric Front Ends	RECOMMENDED FOR NEW DESIGNS	1	Optical Mixed Signal	Multimodal Sensor Front End	14	I2C/SMBus	Contact Impedance, ECG, Gesture, Position, PPG, Proximity, SPO2, Wrist-HRM

	Description	Product Lifecycle	# Channels	Sensor Primary Function	Comments	Resolution	Interface	Target Applications
MAX30001	Ultra-Low-Power, Single-Channel Integrated Biopotential (ECG, R-to-R, and Pace Detection) and Bioimpedance (BioZ) AFE	PRODUCTION	1	Bioimpedance Analog Front End	Ultra-Low Power, Single-Channel Integrated ECG AFE w/ Integrated Respiration & PACE Detection	20	SPI	Arrhythmia Detection Patches, At-home Monitoring, Chest Straps, Disposable ECG Monitors, ECG Monitors, Wearable Devices, Wearable Patient Monitors, Wrist-worn
MAX86140	Best-in-Class Optical Pulse Oximeter and Heart-Rate Sensor for Wearable Health	PRODUCTION	1	Optical Mixed Signal	Best-in-Class Optical Pulse Oximeter and Heart-Rate Sensor for Wearable Health	19	-	At-home Monitoring, Finger-based, Wearable Devices, Wearable Patient Monitors, Wrist-worn
MAX86141	Best-in-Class Optical Pulse Oximeter and Heart-Rate Sensor for Wearable Health	PRODUCTION	1	Optical Mixed Signal	Best-in-Class Optical Pulse Oximeter and Heart-Rate Sensor for Wearable Health	19	-	At-home Monitoring, Finger-based, Hearables, Wearable Devices, Wearable Patient Monitors, Wrist-worn
MAX30110	Optimized Pulse-Oximeter and Heart Rate AFE for Wearable Health	PRODUCTION	1	Optical Mixed Signal	Optimized Pulse-Oximeter and Heart Rate AFE for Wearable Health	19	SPI	At-home Monitoring, Finger-based, Wearable Devices, Wearable Patient Monitors, Wrist-worn
MAX30112	Optimized Pulse-Oximeter and Heart Rate AFE for Wearable Health	PRODUCTION	1	Optical Mixed Signal	Optimized Pulse-Oximeter and Heart Rate AFE for Wearable Health	19	I2C/SMBus	At-home Monitoring, Finger-based, Wearable Devices, Wearable Patient Monitors, Wrist-worn
MAX30004	Ultra-Low Power, Single-Channel Integrated Biopotential HR Detection AFE	PRODUCTION	1	Analog Front End	Ultra-Low Power, Single Channel Integrated Biopotential (ECG) AFE with HR Detection Algorithm (R-R)	18	SPI	At-home Monitoring, Chest Straps, Disposable ECG Monitors, ECG Monitors, Wearable Patient Monitors
MAX30205	Human Body Temperature Sensor	PRODUCTION	1	Temperature Sensor	±0.1°C Medical Grade Temperature Sensors for Thermometer Applications	-	I2C/SMBus	Temperature Measurement
AD8233	50 µA, 2 mm × 1.7 mm WLCSP, Low Noise, Heart Rate Monitor for Wearable Products	RECOMMENDED FOR NEW DESIGNS	1	Instrumentation Amplifier	Heart Rate Monitor for Wearable Products	-	-	ECG, EEG, EMG, Wrist-HRM
ADPD105	Photometric Front End with I2C	NOT RECOMMENDED FOR NEW DESIGNS	1	Optical Mixed Signal	Photometric Front End with I2C	-	I2C/SMBus	Contact Impedance, ECG, Gesture, Position, PPG, Proximity, SPO2, Wrist-HRM
ADPD107	Photometric Front End with SPI	NOT RECOMMENDED FOR NEW DESIGNS	1	Optical Mixed Signal	Photometric Front End with SPI	-	SPI	Contact Impedance, ECG, Gesture, Position, PPG, Proximity, SPO2, Wrist-HRM

	Description	Product Lifecycle	# Channels	Sensor Primary Function	Comments	Resolution	Interface	Target Applications
MAX30003	Ultra-Low Power, Single-Channel Integrated Biopotential (ECG, R to R Detection) AFE	PRODUCTION	1	Analog Front End	Ultra-Low Power, Single Channel Integrated Biopotential (ECG) AFE with HR Detection Algorithm (R-R)	18	SPI	Arrhythmia Detection Patches, At-home Monitoring, Chest Straps, Disposable ECG Monitors, ECG Monitors, Wearable Patient Monitors
MAX30101	High-Sensitivity Pulse Oximeter and Heart-Rate Sensor for Wearable Health	PRODUCTION	1	Optical Mixed Signal	High-Sensitivity Pulse Oximeter and Heart-Rate Sensor for Wearable Health	16	I2C/SMBus	Finger-based, Wrist-worn
MAX30102	High-Sensitivity Pulse Oximeter and Heart-Rate Sensor for Wearable Health	PRODUCTION	1	Optical Mixed Signal	High-Sensitivity Pulse Oximeter and Heart-Rate Sensor for Fitness and Healthcare	16	I2C/SMBus	Finger-based, Wrist-worn
ADA4350	FET Input Analog Front End with ADC Driver	RECOMMENDED FOR NEW DESIGNS	-	Data Acquisition System	-	24	Parallel, SPI	Chemical Analyzers, Current to Voltage Conversions, Data Acquisition Systems, Laser/LED receivers, Mass Spectrometry, Molecular Spectroscopy, Photodiode preamplifiers
ADAS1000-3	Low Power, 3-Electrode Electrocardiogram (ECG) Analog Front End	RECOMMENDED FOR NEW DESIGNS	3	Analog Front End	Low Power, 3-Electrode Electrocardiogram (ECG) Analog Front End	18	SPI	ECG, Vital Signs
ADAS1000-4	Low Power, 3-Electrode Electrocardiogram (ECG) Analog Front End with respiration measurement and pace detection	RECOMMENDED FOR NEW DESIGNS	3	Analog Front End	Low Power, 3-Electrode Electrocardiogram (ECG) Analog Front End with respiration measurement and pace detection	18	SPI	ECG, Vital Signs
ADAS1000-1	Low Power 5 electrode ECG Analog Front End	RECOMMENDED FOR NEW DESIGNS	5	Analog Front End	Low Power 5 electrode ECG Analog Front End	18	SPI	ECG, Vital Signs
ADAS1000-2	Low Power 5 electrode ECG Analog Front End Companion Chip	RECOMMENDED FOR NEW DESIGNS	5	Analog Front End	Low Power 5 electrode ECG Analog Front End Companion Chip	18	SPI	ECG, Vital Signs
ADAS1000	Low-Power, 5-Electrode Electrocardiogram (ECG) Analog Front End with respiration measurement and pace detection)	RECOMMENDED FOR NEW DESIGNS	5	Analog Front End	Low Power, 5-Electrode Electrocardiogram (ECG) Analog Front End with respiration measurement and pace detection)	18	SPI	ECG, Vital Signs

	Description	Product Lifecycle	# Channels	Sensor Primary Function	Comments	Resolution	Interface	Target Applications
MAX1358B	16-Bit, Data-Acquisition System with ADC, DACs, UPIOs, RTC, Voltage Monitors, and Temp Sensor	PRODUCTION	1	Data Acquisition System	16-Bit, Data-Acquisition System with ADC, DACs, UPIOs, RTC, Voltage Monitors, and Temp Sensor	16	SPI	Data Acquisition Systems, Industrial Control, Medical Instruments
ADT7420	±0.25°C Accurate, 16-Bit Digital I2C Temperature Sensor	RECOMMENDED FOR NEW DESIGNS	1	Temperature Sensor	±0.25°C Accurate, 16-Bit Digital I2C Temperature Sensor	-	I2C/SMBus	Temperature Measurement
ADUCM355	Precision Analog Microcontroller with Chemical Sensor Interface	RECOMMENDED FOR NEW DESIGNS	2	Precision Microcontroller	Precision Analog Microcontroller with Chemical Sensor Interface	16	I2C/SMBus	Bioimpedance Measurement, Gas Sensors
MAX86181	High SNR Quad-Channel AFE for Optical Spectroscopy with Dynamic Voltage Scaling	RECOMMENDED FOR NEW DESIGNS	4	Analog Front End, Optical Mixed Signal	High SNR Quad-Channel AFE for Optical Spectroscopy with Dynamic Voltage Scaling	20	I2C/SMBus, SPI	At-home Monitoring, Chemical Analyzers, Gas Sensors, Heart Rate, Heart Rate Variability, Infectious Disease detection wearable, PPG, Remote Patient Monitors (RPM), SPO2, Wearable Devices, Wearable devices for Fitness, Wearable Patient Monitors, Wellness and Medical, Wellness Watches, Wrist-HRM, Wrist-worn

Electrochemical Sensors

Parts	Description	Product Lifecycle	# Channels	Resolution	End Equipment	Features	Comments	VSUPPLY max	VSUPPLY min	ISUPPLY typ
ADUCM356	Precision Analog Microcontroller with Chemical Sensor Interface	RECOMMENDED FOR NEW DESIGNS	2	16	Continuous Glucose Monitors, Electrochemical Sensors, Gas Detection	Cyclic Voltammetry, EIS, Electrochemical Sensor, Sensor Detect, WE/CE/RE	Precision Analog Microcontroller with Chemical Sensor Interface	3.6	2.8	-
MAX30131	1-, 2-, 4-Channel, Ultra-Low Power Electrochemical Sensor AFEs	RECOMMENDED FOR NEW DESIGNS	1	16	Continuous Glucose Monitors, Electrochemical Sensors, Wearable Patient Monitors	Cyclic Voltammetry, EIS, Sensor Detect, Temp Sensor, WE/CE/RE	1-, 2-, 4-Channel, Ultra-Low Power Electrochemical Sensor AFEs	5.5	1.7	5.8
MAX30132	1-, 2-, 4-Channel, Ultra-Low Power Electrochemical Sensor AFEs	RECOMMENDED FOR NEW DESIGNS	2	16	Continuous Glucose Monitors, Electrochemical Sensors, Wearable Patient Monitors	Cyclic Voltammetry, EIS, Sensor Detect, Temp Sensor, WE/CE/RE	1-, 2-, 4-Channel, Ultra-Low Power Electrochemical Sensor AFEs	5.5	1.7	5.8
MAX30134	1-, 2-, 4-Channel, Ultra-Low Power Electrochemical Sensor AFEs	RECOMMENDED FOR NEW DESIGNS	4	16	Continuous Glucose Monitors, Electrochemical Sensors, Wearable Patient Monitors	Cyclic Voltammetry, EIS, Sensor Detect, Temp Sensor, WE/CE/RE	1-, 2-, 4-Channel, Ultra-Low Power Electrochemical Sensor AFEs	5.5	1.7	5.8
AD5941	High Precision, Impedance & Electrochemical Front End	RECOMMENDED FOR NEW DESIGNS	1	16	Continuous Glucose Monitors, Electrochemical Sensors, Wearable Patient Monitors	Cyclic Voltammetry, EIS, Electrochemical Sensor, Sensor Detect, WE/CE/RE	High Precision, Impedance & Electrochemical Front End	3.6	2.8	-
AD5940	High Precision, Impedance & Electrochemical Front End	RECOMMENDED FOR NEW DESIGNS	1	16	Continuous Glucose Monitors, Electrochemical Sensors, Wearable Patient Monitors	Cyclic Voltammetry, EIS, Electrochemical Sensor, Sensor Detect, WE/CE/RE	High Precision, Impedance & Electrochemical Front End	3.6	2.8	-
MAX35104	Gas Flow Meter SoC	PRODUCTION	1	-	Medical Ventilator, Ultrasonic Gas Meter	Temp Sensor, Ultrasonic Piezoelectric Transducer	Complete Natural Gas Flow Meter SoC	3.6	2.3	6

	Description	Product Lifecycle	# Channels	Resolution	End Equipment	Features	Comments	VSUPPLY max	VSUPPLY min	ISUPPLY typ
MAX35103	Reduced Power Time-to-Digital Converter with AFE, RTC, and Flash	PRODUCTION	1	-	Ultrasonic Gas Meter, Ultrasonic Heat Meters, Ultrasonic Water Meters	Ultrasonic Piezoelectric Transducer	Reduced Power Time-to-Digital Converter with AFE, RTC, and Flash	3.6	2.3	6
MAX35101	Time-to-Digital Converter with Analog Front-End	PRODUCTION	1	-	Ultrasonic Gas Meter, Ultrasonic Heat Meters, Ultrasonic Water Meters	Ultrasonic Piezoelectric Transducer	Ultrasonic Piezoelectric Transducer	3.6	2.3	10
ADUCM355	Precision Analog Microcontroller with Chemical Sensor Interface	RECOMMENDED FOR NEW DESIGNS	2	16	Continuous Glucose Monitors, Electrochemical Sensors, Gas Detection	Cyclic Voltammetry, EIS, Electrochemical Sensor, Sensor Detect, WE/CE/RE	Precision Analog Microcontroller with Chemical Sensor Interface	3.6	2.8	-

Gesture Sensors

Parts	Description	Product Lifecycle	Resolution	Features	End Equipment	Comments
MAX25405	IR Gesture Sensor with Lens for Automotive Applications	RECOMMENDED FOR NEW DESIGNS	12	I2C Interface, Integrated AFE, Integrated sensor, Optical Sensor, SPI Interface	Automotive	IR Gesture Sensor with Lens for Automotive Applications
MAX25205	Gesture Sensor for Automotive Applications	PRODUCTION	12	I2C Interface, Integrated AFE, Optical Sensor, SPI Interface	Automotive	Gesture Sensor for Automotive Applications
ADUX1020	Photometric Sensor for Gesture and Proximity	NOT RECOMMENDED FOR NEW DESIGNS	14	ADC, AFE, I2C Interface, LED Driver	Gesture UI for portable devices, Industrial Monitoring, Presence Detection	Photometric Sensor for Gesture and Proximity

Gyroscopes

Parts	Description	Product Lifecycle	# of Axes	Measurement min Range	Noise typ Density	Nonlinearity typ	BW typ -3 dB	Output Type	In-Run typ Bias Stability	Angular typ Random Walk	Linear typ G	Input min Range +/-	Vs+ min	Vs+ max
ADXRS910	Rollover Detection In-Plane Gyroscope	LAST TIME BUY	1	300	-	-	201	SPI	-	-	-	300	3.15	5.25
ADXRS290	Ultralow noise, dual-axis MEMS Gyroscope for Stabilization Applications	RECOMMENDED FOR NEW DESIGNS	2	100	0.004	0.5	480	SPI	-	0.17	-	100	2.7	5
ADXRS645	High Temperature, Vibration Rejecting ±2000°/sec Gyroscope	RECOMMENDED FOR NEW DESIGNS	1	2000	0.25	0.1	2000	Analog	100	1.2	0.1	2000	4.75	5.25
ADIS16137	±1000°/Sec Precision Angular Rate Sensor	RECOMMENDED FOR NEW DESIGNS	1	1000	0.0036	0.05	400	SPI	2.8	-	0.017	1000	4.75	5.25
ADXRS810	High Performance, SPI Digital Output, Angular Rate Sensor	NOT RECOMMENDED FOR NEW DESIGNS	1	409.6	0.015	-	77	SPI	-	-	0.03	300	3.15	5.25
ADIS16136	±450°/Sec Precision Angular Rate Sensor	RECOMMENDED FOR NEW DESIGNS	1	480	0.0036	0.1	0.38k	SPI	-	0.167	0.017	-	4.75	5.25
ADXRS800	High Performance, SPI Digital Output, Angular Rate Sensor	NOT RECOMMENDED FOR NEW DESIGNS	1	409.6	0.015	-	77	SPI	-	-	0.03	-	3.15	5.25

	Description	Product Lifecycle	# of Axes	Measurement Range min	Noise Density typ	Nonlinearity typ	BW typ -3 dB	Output Type	In-Run Bias Stability typ	Angular Random Walk typ	Linear G typ	Input Range +/- min	Vs+ min	Vs+ max
ADXRS642	Vibration Rejecting ±250°/s Yaw Rate Gyroscope	RECOMMENDED FOR NEW DESIGNS	1	300	0.02	0.01	2k	Analog	20	1.2	0.03	250	4.75	5.25
ADXRS646	High Stability, Low Noise Vibration Rejecting Yaw Rate Gyroscope	PRODUCTION	1	250	0.01	0.01	1k	Analog	-	0.6	0.015	250	5.75	6.25
ADXRS649	Fast Starting, ±20,000°/sec Vibration Rejecting Rate Gyro	RECOMMENDED FOR NEW DESIGNS	1	20000	0.25	0.1	2k	Analog	200	10.7	0.1	-	4.75	5.25
ADXRS453	High Performance, Digital Output Gyroscope	RECOMMENDED FOR NEW DESIGNS	1	400	0.015	0.05	77.5	SPI	16	0.65	0.01	300	3.15	5.25
ADXRS450	±300°/sec High Vibration Immunity Digital Gyro	RECOMMENDED FOR NEW DESIGNS	1	400	0.015	0.05	0.08k	SPI	25	0.65	0.03	300	3.15	5.25
ADIS16135	±300°/Sec Precision Angular Rate Sensor	RECOMMENDED FOR NEW DESIGNS	1	350	0.0122	0.008	330	SPI	6.1	0.75	0.03	-	4.85	5.25
ADXRS623	±150°/sec Yaw Rate Gyroscope	PRODUCTION	1	150	0.04	0.1	3k	Analog	21.6	1.8	0.1	-	4.75	5.25
ADXRS624	±50°/s Yaw Rate Gyro	PRODUCTION	1	75	0.04	0.1	1k	Analog	21.6	1.8	0.1	50	4.75	5.25
ADXRS620	±300°/sec Yaw Rate Gyro	NOT RECOMMENDED FOR NEW DESIGNS	1	300	0.05	0.1	2.5k	Analog	21.6	2.2	0.1	-	4.75	5.25
ADXRS652	±250°/sec Yaw Rate Gyro	RECOMMENDED FOR NEW DESIGNS	1	250	0.06	0.1	2.5k	Analog	21.6	2.6	0.1	-	4.75	5.25

	Description	Product Lifecycle	# of Axes	Measurement Range min	Noise Density typ	Nonlinearity typ	BW typ -3 dB	Output Type	In-Run Bias Stability typ	Angular Random Walk typ	Linear G typ	Input Range +/- min	Vs+ min	Vs+ max
ADIS16260	Programmable Low Power Gyroscope	PRODUCTION	1	320	0.04	0.1	330	SPI	25.2	2	0.2	80	4.75	5.25
ADIS16265	Programmable Digital Gyroscope Sensor	PRODUCTION	1	320	0.04	0.1	330	SPI	25.2	2	0.2	80	4.75	5.25
ADXRS622	±250°/sec Yaw Rate Gyroscope	PRODUCTION	1	250	0.06	0.1	2.5k	Analog	21.6	2.6	0.1	300	4.75	5.25
ADIS16060	Wide Bandwidth Yaw Rate Gyroscope with SPI	NOT RECOMMENDED FOR NEW DESIGNS	1	80	0.04	0.12	1k	SPI	-	-	-	50	4.75	5.25

Inertial Measurement Units (IMU)

Parts	Description	Product Lifecycle	Degrees of Freedom	Gyro Input Range +/- min	Gyro In-Run Bias Stability typ	Gyro Angular Random Walk typ	Gyro Noise Density typ	Gyro Linear G typ	Gyro Axis to Axis Alignment typ	Gyro Bias Repeatability typ	Accel. Range	Accel. In-Run Bias Stability typ	Calibrated Temp Range	Output Sample Rate max
ADIS16446	Compact, Precision Six Degrees of Freedom Inertial Sensor	RECOMMENDED FOR NEW DESIGNS	6	1200	14.5	0.66	0.0135	0.015	0.05	0.5	18 g	250µ	-40 to 85°C	819.2
ADIS16486	Six Degrees of Freedom Inertial Sensor	RECOMMENDED FOR NEW DESIGNS	6	450	5.3	0.25	0.0068	0.009	0.018	0.2	18 g	70µ	-40C to +85C	2.46k
ADIS16500	Precision, Miniature MEMS IMU	RECOMMENDED FOR NEW DESIGNS	6	2000	8.1	0.29	0.0061	0.0085	0.25	0.14	40 g	12.7µ	-10°C to +75°C	2k
ADIS16507-1	Precision, Miniature MEMS IMU	RECOMMENDED FOR NEW DESIGNS	6	125	2.3	0.13	0.003	0.0085	0.25	0.14	40 g	12.75µ	-40°C to 105°C	2k
ADIS16507-2	Precision, Miniature MEMS IMU	RECOMMENDED FOR NEW DESIGNS	6	500	2.7	0.15	0.0034	0.0085	0.25	0.14	40 g	12.75µ	-40°C to 105°C	2k
ADIS16507-3	Precision, Miniature MEMS IMU	RECOMMENDED FOR NEW DESIGNS	6	2000	8.1	0.29	0.0061	0.0085	0.25	0.14	40 g	12.75µ	-40°C to 105°C	2k
ADIS16505-1	Precision, Miniature MEMS IMU	RECOMMENDED FOR NEW DESIGNS	6	125	2.3	0.13	0.003	0.0085	0.25	0.14	8 g	2.7µ	-40°C to 105°C	2k
ADIS16505-2	Precision, Miniature MEMS IMU	RECOMMENDED FOR NEW DESIGNS	6	500	2.7	0.15	0.0034	0.00849	0.25	0.14	8 g	2.7µ	-40°C to 105°C	2k
ADIS16505-3	Precision, Miniature MEMS IMU	RECOMMENDED FOR NEW DESIGNS	6	2000	8.1	0.29	0.0046	0.00849	0.25	0.14	8 g	2.7µ	-40°C to 105°C	2k
ADIS16465-1	Precision MEMS IMU Module	RECOMMENDED FOR NEW DESIGNS	6	125	2	0.15	0.003	0.009	0.05	0.4	8 g	3.6µ	-40 to 85°C	2k
ADIS16465-2	Precision MEMS IMU Module	RECOMMENDED FOR NEW DESIGNS	6	500	2.5	0.15	0.003	0.009	0.05	0.4	8 g	3.6µ	-40 to 85°C	2k
ADIS16465-3	Precision MEMS IMU Module	RECOMMENDED FOR NEW DESIGNS	6	2000	6	0.3	0.008	0.009	0.05	0.4	8 g	3.6µ	-40 to 85°C	2k

	Description	Product Lifecycle	Degrees of Freedom	Gyro Input Range +/- (min)	Gyro In-Run Bias Stability (typ)	Gyro Angular Random Walk (typ)	Gyro Noise Density (typ)	Gyro Linear G (typ)	Gyro Axis to Axis Alignment (typ)	Gyro Bias Repeatability (typ)	Accel. Range	Accel. In-Run Bias Stability (typ)	Calibrated Temp Range	Output Sample Rate (max)
ADIS16467-1	Precision MEMS IMU Module	RECOMMENDED FOR NEW DESIGNS	6	125	2	0.15	0.003	0.009	0.05	0.7	40 g	13µ	-40 to 85°C	2k
ADIS16467-2	Precision MEMS IMU Module	RECOMMENDED FOR NEW DESIGNS	6	500	2.5	0.15	0.003	0.009	0.05	0.7	40 g	13µ	-40 to 85°C	2k
ADIS16467-3	Precision MEMS IMU Module	RECOMMENDED FOR NEW DESIGNS	6	2000	6	0.3	0.008	0.009	0.05	0.7	40 g	13µ	-40 to 85°C	2k
ADIS16475-1	Precision, Miniature MEMs IMU (2000dps, 8g)	RECOMMENDED FOR NEW DESIGNS	6	125	2	0.15	0.003	0.01	0.1	0.7	8 g	3.6µ	-40 to 85°C	2k
ADIS16475-2	Precision, Miniature MEMs IMU (2000dps, 8g)	RECOMMENDED FOR NEW DESIGNS	6	500	2.5	0.15	0.003	0.01	0.1	0.7	8 g	3.6µ	-40 to 85°C	2k
ADIS16475-3	Precision, Miniature MEMs IMU (2000dps, 8g)	RECOMMENDED FOR NEW DESIGNS	6	2000	7	0.3	0.008	0.01	0.1	0.7	8 g	3.6µ	-40 to 85°C	2k
ADIS16477-1	Precision, Miniature MEMs IMU	RECOMMENDED FOR NEW DESIGNS	6	125	2	0.15	0.003	0.01	0.1	0.7	40 g	13µ	-40 to 85°C	2k
ADIS16477-2	Precision, Miniature MEMs IMU	RECOMMENDED FOR NEW DESIGNS	6	500	2.5	0.15	0.003	0.01	0.1	0.7	40 g	13µ	-40 to 85°C	2k
ADIS16477-3	Precision, Miniature MEMs IMU	RECOMMENDED FOR NEW DESIGNS	6	2000	7	0.3	0.008	0.01	0.1	0.7	40 g	13µ	-40 to 85°C	2k
ADIS16495-1	Tactical Grade, Six Degrees of Freedom Inertial Sensor	RECOMMENDED FOR NEW DESIGNS	6	125	0.8	0.09	0.002	0.006	0.05	0.07	8 g	3.2µ	-40 to 85°C	4.25k
ADIS16495-2	Tactical Grade, Six Degrees of Freedom Inertial Sensor	RECOMMENDED FOR NEW DESIGNS	6	450	1.6	0.1	0.0022	0.006	0.05	0.07	8 g	3.2µ	-40 to 85°C	4.25k

	Description	Product Lifecycle	Degrees of Freedom	Gyro min Input Range +/-	Gyro In-Run Bias Stability typ	Gyro Angular Random Walk typ	Gyro Noise Density typ	Gyro Linear G typ	Gyro Axis to Axis Alignment typ	Gyro Bias Repeatability typ	Accel. Range	Accel. In-Run Bias Stability typ	Calibrated Temp Range	Output Sample Rate max
ADIS16495-3	Tactical Grade, Six Degrees of Freedom Inertial Sensor	RECOMMENDED FOR NEW DESIGNS	6	2000	3.3	0.18	0.0042	0.006	0.05	0.07	8 g	3.2µ	-40 to 85°C	4.25k
ADIS16497-1	Tactical Grade, Six Degrees of Freedom Inertial Sensor	RECOMMENDED FOR NEW DESIGNS	6	125	0.8	0.09	0.002	0.006	0.05	0.07	40 g	13µ	-40 to 85°C	4.25k
ADIS16497-2	Tactical Grade, Six Degrees of Freedom Inertial Sensor	RECOMMENDED FOR NEW DESIGNS	6	450	1.6	0.1	0.0022	0.006	0.05	0.07	40 g	13µ	-40 to 85°C	4.25k
ADIS16497-3	Tactical Grade, Six Degrees of Freedom Inertial Sensor	RECOMMENDED FOR NEW DESIGNS	6	2000	3.3	0.18	0.0042	0.006	0.05	0.07	40 g	13µ	-40 to 85°C	4.25k
ADIS16470	Wide Dynamic Range, Miniature MEMs IMU	RECOMMENDED FOR NEW DESIGNS	6	2000	8	0.34	0.008	0.015	0.1	-	40 g	13µ	-10C to +70C	2k
ADXC1501	Combined Gyroscope and Tri-Axis Accelerometer	LAST TIME BUY	4	300	-	-	-	0.03	1.7	3	12 g	-	-40°C to 105°C	6k
ADIS16489	Seven Degrees of Freedom Inertial Sensor	RECOMMENDED FOR NEW DESIGNS	7	450	5.3	0.25	0.0068	0.009	0.05	0.2	18 g	70µ	-40 to 85°C	2.46k
ADXC1500	Combined Gyroscope and Dual-Axis Accelerometer	LAST TIME BUY	4	300	-	-	-	0.03	1.7	3	12 g	-	-40°C to 105°C	6k
ADIS16490	Tactical Grade, Six Degrees of Freedom Inertial Sensor	NOT RECOMMENDED FOR NEW DESIGNS	6	100	1.8	-	0.002	0.005	0.05	0.05	8 g	3.6µ	-40 to 85°C	4.25k
ADIS16460	Compact, Precision, Six Degrees of Freedom Inertial Sensor	NOT RECOMMENDED FOR NEW DESIGNS	6	100	8	0.12	0.004	0.01	0.05	0.5	5 g	0.2m	0 to 70°C	2.048k

	Description	Product Lifecycle	Degrees of Freedom	Gyro Input Range +/- (min)	Gyro In-Run Bias Stability (typ)	Gyro Angular Random Walk (typ)	Gyro Noise Density (typ)	Gyro Linear G (typ)	Gyro Axis to Axis Alignment (typ)	Gyro Bias Repeatability (typ)	Accel. Range	Accel. In-Run Bias Stability (typ)	Calibrated Temp Range	Output Sample Rate (max)
ADIS16488A	Tactical Grade, Ten Degrees of Freedom Inertial Sensor	PRODUCTION	10	450	5.1	0.26	0.0059	0.009	0.05	0.2	18 g	70µ	-40 to 85°C	2.46k
ADIS16445	Compact, Precision Six Degrees of Freedom Inertial Sensor	RECOMMENDED FOR NEW DESIGNS	6	250	12	0.56	0.011	0.015	0.05	0.5	5 g	75µ	-40°C to 70°C	819.2
ADIS16480	Ten Degrees of Freedom MEMS Inertial Sensor with Dynamic Orientation Outputs	RECOMMENDED FOR NEW DESIGNS	10	450	6.25	0.3	0.0066	0.009	0.05	0.2	10 g	100µ	-40°C to 70°C	2.46k
ADIS16485	Tactical Grade Six Degrees of Freedom MEMS Inertial Sensor	RECOMMENDED FOR NEW DESIGNS	6	450	6.25	0.3	0.0066	0.009	0.05	0.2	5 g	32µ	-40°C to 70°C	2.46k
ADIS16448	Compact, Precision Ten Degree of Freedom Inertial Sensor	LAST TIME BUY	10	250	14.5	0.66	0.0135	0.015	0.05	0.5	18 g	250µ	-40 to 85°C	819.2
ADIS16334	Low Profile, Six Degrees of Freedom Inertial Sensor	RECOMMENDED FOR NEW DESIGNS	6	300	25	2	0.044	0.05	0.05	3	5 g	100µ	-40 to 85°C	819.2
ADIS16375	Low Profile, Low Noise Six Degrees of Freedom Inertial Sensor	RECOMMENDED FOR NEW DESIGNS	6	300	12	1	0.2	0.013	0.05	1	18 g	100µ	-40 to 85°C	2.46k
ADIS16362	Six Degrees of Freedom Inertial Sensor	PRODUCTION	6	300	25	2	0.044	0.05	0.05	3	1.7 g	41µ	-20 to 70°C	819.2
ADIS16364	Six Degrees of Freedom Inertial Sensor	PRODUCTION	6	300	25	2	0.044	0.05	0.05	3	5 g	100µ	-20 to 70°C	819.2

	Description	Product Lifecycle	Degrees of Freedom	Gyro min Input Range +/-	Gyro In-Run Bias Stability typ	Gyro Angular Random Walk typ	Gyro Noise Density typ	Gyro Linear G typ	Gyro Axis to Axis Alignment typ	Gyro Bias Repeatability typ	Accel. Range	Accel. In-Run Bias Stability typ	Calibrated Temp Range	Output Sample Rate max
ADIS16365	Six Degrees of Freedom Inertial Sensor	PRODUCTION	6	300	25	2	0.044	0.05	0.05	3	18 g	200µ	-40 to 85°C	819.2

Magnetic Field Sensors

Parts	Description	Product Lifecycle	Device Sensors	# of Channels	Comments
ADAF1080	Integrated 8 mT AMR Magnetic Field Sensor and Signal Conditioner	RECOMMENDED FOR NEW DESIGNS	Anisotropic-Magneto-Resistive	1	Integrated 8 mT AMR Magnetic Field Sensor and Signal Conditioner
ADA4570	Integrated AMR Angle Sensor and Signal Conditioner with Differential Outputs	RECOMMENDED FOR NEW DESIGNS	Anisotropic-Magneto-Resistive, Magneto-Resistive	1	Integrated AMR Angle Sensor and Signal Conditioner with Differential Outputs
ADA4571-2	Dual Integrated AMR Angle Sensor and Signal Conditioner	RECOMMENDED FOR NEW DESIGNS	Anisotropic-Magneto-Resistive, Magneto-Resistive	1	Integrated AMR Angle Sensor and Signal Conditioner
ADA4571	Integrated AMR Angle Sensor and Signal Conditioner	RECOMMENDED FOR NEW DESIGNS	Anisotropic-Magneto-Resistive, Magneto-Resistive	2	Dual Integrated AMR Angle Sensor and Signal Conditioner
MAX9621	Dual, 2-Wire Hall-Effect Sensor Interface with Analog and Digital Outputs	PRODUCTION	Hall Effect	2	Dual, 2-Wire Hall-Effect Sensor Interface with Analog and Digital Outputs
MAX9924	Variable-Reluctance Sensor Interface with Differential Input and Adaptive Peak Threshold	PRODUCTION	Variable Reluctance Sensor	1	Single-Channel, Variable Reluctance Sensor Interface
MAX9925	Variable-Reluctance Sensor Interface with Differential Input and Adaptive Peak Threshold	PRODUCTION	Variable Reluctance Sensor	1	Single-Channel, Variable Reluctance Sensor Interface With Adjustable Gain
MAX9926	Variable-Reluctance Sensor Interface with Differential Input and Adaptive Peak Threshold	PRODUCTION	Variable Reluctance Sensor	2	Dual-Channel, Variable Reluctance Sensor Interface
MAX9927	Variable-Reluctance Sensor Interface with Differential Input and Adaptive Peak Threshold	PRODUCTION	Variable Reluctance Sensor	2	Dual-Channel, Variable Reluctance Sensor Interface With Adjustable Gain
MAX9921	Dual, 2-Wire Hall-Effect Sensor Interface with Diagnostics	PRODUCTION	Hall Effect	2	Dual, 2-Wire Hall-Effect Sensor Interface with Diagnostics
AD22151G	Linear Output Magnetic Field Transducer	PRODUCTION	Hall Effect	1	Linear Output Magnetic Field Transducer

Optical Sensing Technology

Parts	Description	Product Lifecycle	Topology	Target Applications	Interface Protocol	# of Internal Photodiodes typ	# of External LED Drivers	# of External Current Inputs
MAX86165	Miniature Optical Heart Rate Module	RECOMMENDED FOR NEW DESIGNS	Mixed Signal AFE	Arrhythmia Detection Patches, At-home Monitoring, Hearables, Heart Rate, Heart Rate Variability, PPG, Remote Patient Monitors (RPM), SPO2, Vital Signs, Wearable Devices, Wearable devices for Fitness, Wearable Patient Monitors, Wellness and Medical, Wellness Watches	I2C	1	1	0
ADPD7000	Multimodal Sensor Front End	RECOMMENDED FOR NEW DESIGNS	Optical Mixed Signal	Bioimpedance, ECG, GSR measurements, Wearable Devices, Wearable Patient Monitors, Wrist-HRM	SPI	-	8	-
MAX86180	High SNR Dual-Channel AFE for Multi-Wavelength Optical Spectroscopy	RECOMMENDED FOR NEW DESIGNS	Optical AFE, Optical Mixed Signal	At-home Monitoring, Finger-based, Infectious Disease detection wearable, PPG, Remote Patient Monitors (RPM), SPO2, Vital Signs, Wearable Devices, Wearable devices for Fitness, Wearable Patient Monitors, Wellness and Medical, Wellness Watches, Wrist-HRM	I2C, SPI	-	32	6
ADTF3175	1 MegaPixel Time-of-Flight Module	RECOMMENDED FOR NEW DESIGNS	Time of Flight	Augmented Reality, Machine Vision, Robotics	CSI-2	-	-	-
ADSD3030	VGA, CMOS, Time of Flight, Backside Illumination Sensor	RECOMMENDED FOR NEW DESIGNS	Time of Flight	Augmented Reality, Machine Vision, Robotics	CSI-2	-	-	-
ADPD6000	Multimodal Sensor Front End	RECOMMENDED FOR NEW DESIGNS	Optical Mixed Signal	Bioimpedance, ECG, Wearable Devices, Wearable Patient Monitors, Wrist-HRM	SPI	-	4	-
ADPD4200	Multimodal Sensor Front End	RECOMMENDED FOR NEW DESIGNS	Optical Mixed Signal	Wearable Devices, Wearable Patient Monitors, Wrist-HRM	-	-	-	-
MAX86177	Quad-Channel AFE for Low-Power Heart Rate Monitor and Pulse Oximeter	PRODUCTION	Optical AFE	Hearables, Remote Patient Monitors (RPM), Wearable Devices, Wearable devices for Fitness, Wearable Patient Monitors, Wellness and Medical, Wellness Watches, Wrist-worn	-	-	6	8
MAX86173	Dual-Channel Optical AFE with High Signal-to-Noise Ratio for Wearable Health	RECOMMENDED FOR NEW DESIGNS	Optical AFE	Finger-based, Hearables, Wrist-worn	-	-	-	2
MAX86174A	Best-in-Class Optical Pulse Oximeter and Heart-Rate Sensor AFE for Wearable Health	PRODUCTION	Optical AFE	At-home Monitoring, Finger-based, Infectious Disease detection wearable, Wearable Devices, Wrist-worn	-	-	4	2
MAX86174B	Best-in-Class Optical Pulse Oximeter and Heart-Rate Sensor AFE for Wearable Health	PRE-RELEASE	Optical AFE	At-home Monitoring, Finger-based, Infectious Disease detection wearable, Wearable Devices, Wrist-worn	-	-	4	-
ADSD3100	1 MP, CMOS, Time of Flight, Backside Illumination Sensor	RECOMMENDED FOR NEW DESIGNS	Time of Flight	Augmented Reality, Machine Vision, Robotics	CSI-2	-	-	-

	Description	Product Lifecycle	Topology	Target Applications	Interface Protocol	# of Internal Photodiodes typ	# of External LED Drivers	# of External Current Inputs
MAX30005	Ultra-Low-Power, Optical PPG and Single-Lead ECG AFE	PRODUCTION	Mixed Signal AFE	Arrhythmia Detection Patches, Chest Straps, Covid Detection Patches, Disposable ECG Monitors, ECG AFE, Infectious Disease detection wearable, Wearable Patient Monitors, Wrist-worn	-	-	-	-
MAX86176	Ultra-Low-Power, Optical PPG and Single-Lead ECG AFE	PRODUCTION	Optical Mixed Signal	Arrhythmia Detection Patches, At-home Monitoring, Disposable ECG Monitors, ECG Monitors, Finger-based, Wearable Devices, Wearable Patient Monitors, Wrist-worn	-	-	-	-
ADA4355	Programmable Transimpedance, Current to Bits Receiver µModule	RECOMMENDED FOR NEW DESIGNS	-	-	-	-	-	-
ADPD4100	Multimodal Sensor Front End	RECOMMENDED FOR NEW DESIGNS	Optical Mixed Signal	Angle Sensor, Contact Impedance, ECG, PPG, Proximity, Smoke Detection, SPO2, Vital Signs, Wrist-HRM	SPI	0	8	8
ADPD4101	Multimodal Sensor Front End	RECOMMENDED FOR NEW DESIGNS	Optical Mixed Signal	Angle Sensor, Contact Impedance, ECG, PPG, Proximity, Smoke Detection, SPO2, Vital Signs, Wrist-HRM	I2C	0	8	8
MAX86170A	Best-in-Class Optical Pulse Oximeter and Heart-Rate Sensor AFE for Wearable Health	RECOMMENDED FOR NEW DESIGNS	Optical AFE	Finger-based, Hearables, Wearable Devices, Wearable Patient Monitors, Wrist-worn	-	-	-	-
MAXM86146	Complete Optical Biosensing Module with Ultra-Low-Power Biometric Sensor Hub	RECOMMENDED FOR NEW DESIGNS	Optical AFE	At-home Monitoring, Wearable Devices, Wearable Patient Monitors, Wrist-worn	I2C	2	3	1
MAX86916	Integrated Optical Sensor Module for Mobile Health	RECOMMENDED FOR NEW DESIGNS	Optical Module	At-home Monitoring, Finger-based, Wearable Devices, Wearable Patient Monitors	I2C	1	-	-
MAX86170B	Low-Noise AFE for Pulse Oximeter and Heart Rate Monitor	PRODUCTION	Optical AFE	At-home Monitoring, Hearables, Wearable Devices, Wearable Patient Monitors, Wrist-worn	-	-	-	-
MAX86171	Low-Noise AFE for Pulse Oximeter and Heart Rate Monitor	PRODUCTION	Optical AFE	At-home Monitoring, Finger-based, Wearable Devices, Wearable Patient Monitors, Wrist-worn	-	-	-	-
ADPD4000	Multimodal Sensor Front End	PRODUCTION	Optical Mixed Signal	Angle Sensor, Contact Impedance, ECG, PPG, Smoke Detection, SPO2, Vital Signs, Wrist-HRM	SPI	0	8	8
ADPD4001	Multimodal Sensor Front End	PRODUCTION	Optical Mixed Signal	Angle Sensor, Contact Impedance, ECG, PPG, Smoke Detection, SPO2, Vital Signs, Wrist-HRM	I2C	0	8	8
MAXM86161	Single-Supply Integrated Optical Module for HR and SpO2 Measurement	PRODUCTION	Optical Module	Finger-based, Hearables, Wearable Devices	I2C	1	-	-

	Description	Product Lifecycle	Topology	Target Applications	Interface Protocol	# of Internal Photodiodes typ	# of External LED Drivers	# of External Current Inputs
ADPD144RI	PPG Optical Sensor Module with Integrated Red/IR Emitters and AFE	NOT RECOMMENDED FOR NEW DESIGNS	LED Driver, Mixed Signal AFE, Photodiodes	SPO2	I2C	4	2	0
ADPD2140	Infrared Light Angle Sensor	RECOMMENDED FOR NEW DESIGNS	Photodiodes	Gesture, Position	Analog	4	0	0
ADPD1081	Photometric Front Ends	RECOMMENDED FOR NEW DESIGNS	Mixed Signal AFE	Contact Impedance, ECG, Gesture, Position, PPG, Proximity, SPO2, Vital Signs, Wrist-HRM	SPI	0	3	2
ADPD188BI	Integrated Optical Module for Smoke Detection	RECOMMENDED FOR NEW DESIGNS	LED Driver, Mixed Signal AFE, Photodiodes	Particle Measurement, Proximity, Smoke Detection, Turbidity Measurement	I2C, SPI	2	3	2
ADPD188GG	Integrated Optical Module with Ambient Light Rejection and Two LEDs	RECOMMENDED FOR NEW DESIGNS	LED Driver, Mixed Signal AFE, Photodiodes	Contact Impedance, ECG, PPG, Wrist-HRM	I2C, SPI	2	3	2
ADPD1080	Photometric Front Ends	RECOMMENDED FOR NEW DESIGNS	Mixed Signal AFE	Contact Impedance, ECG, Gesture, Position, PPG, Proximity, SPO2, Wrist-HRM	I2C	0	3	8
MAX86140	Best-in-Class Optical Pulse Oximeter and Heart-Rate Sensor for Wearable Health	PRODUCTION	Optical AFE	At-home Monitoring, Finger-based, Wearable Devices, Wearable Patient Monitors, Wrist-worn	-	-	3	1
MAX86141	Best-in-Class Optical Pulse Oximeter and Heart-Rate Sensor for Wearable Health	PRODUCTION	Optical AFE	At-home Monitoring, Finger-based, Hearables, Wearable Devices, Wearable Patient Monitors, Wrist-worn	-	-	3	2
MAX30110	Optimized Pulse-Oximeter and Heart Rate AFE for Wearable Health	PRODUCTION	Optical AFE	At-home Monitoring, Finger-based, Wearable Devices, Wearable Patient Monitors, Wrist-worn	SPI	-	-	-
MAX30112	Optimized Pulse-Oximeter and Heart Rate AFE for Wearable Health	PRODUCTION	Optical AFE	At-home Monitoring, Finger-based, Wearable Devices, Wearable Patient Monitors, Wrist-worn	I2C	-	-	-
ADPD105	Photometric Front End with I2C	NOT RECOMMENDED FOR NEW DESIGNS	Mixed Signal AFE	Contact Impedance, ECG, Gesture, Position, PPG, Proximity, SPO2, Wrist-HRM	I2C	0	3	8
ADPD107	Photometric Front End with SPI	NOT RECOMMENDED FOR NEW DESIGNS	Mixed Signal AFE	Contact Impedance, ECG, Gesture, Position, PPG, Proximity, SPO2, Wrist-HRM	SPI	0	3	8
ADUX1020	Photometric Sensor for Gesture and Proximity	NOT RECOMMENDED FOR NEW DESIGNS	Mixed Signal AFE, Photodiodes	Gesture, Position, Proximity	I2C	4	1	0
MAX30101	High-Sensitivity Pulse Oximeter and Heart-Rate Sensor for Wearable Health	PRODUCTION	Optical Module	Finger-based, Wrist-worn	-	1	-	-

	Description	Product Lifecycle	Topology	Target Applications	Interface Protocol	# of Internal Photodiodes typ	# of External LED Drivers	# of External Current Inputs
ADPD2211	Low Noise, High Sensitivity Optical Sensor	PRODUCTION	Current Amplifier, Photodiodes	SPO2, Wrist-HRM	Analog	1	0	0
ADPD2210	Ultralow Noise, Low Power Current Amplifier	PRODUCTION	Current Amplifier	PPG, SPO2, Wrist-HRM	Analog	0	0	1
MAX30102	High-Sensitivity Pulse Oximeter and Heart-Rate Sensor for Wearable Health	PRODUCTION	Optical Module	Finger-based, Wrist-worn	-	1	-	-
ADA4350	FET Input Analog Front End with ADC Driver	RECOMMENDED FOR NEW DESIGNS	-	Chemical Analyzers, Current to Voltage Conversions, Data Acquisition Systems, Laser/LED receivers, Mass Spectrometry, Molecular Spectroscopy, Photodiode preamplifiers	-	-	-	-
ADSD3500	Time-of-Flight Depth Image Signal Processor	RECOMMENDED FOR NEW DESIGNS	Time of Flight	Augmented Reality, Building Automation, Machine Vision, Robotics	CSI-2	-	-	-
MAX86181	High SNR Quad-Channel AFE for Optical Spectroscopy with Dynamic Voltage Scaling	RECOMMENDED FOR NEW DESIGNS	Optical AFE, Optical Mixed Signal	At-home Monitoring, Chemical Analyzers, Gas Sensors, Heart Rate, Heart Rate Variability, Infectious Disease detection wearable, PPG, Remote Patient Monitors (RPM), SPO2, Wearable Devices, Wearable devices for Fitness, Wearable Patient Monitors, Wellness and Medical, Wellness Watches, Wrist-HRM, Wrist-worn	I2C, SPI	0	24	8

Sensor Hubs

Parts	Description	Product Lifecycle	# of Channels	Sensor Primary Function	Comments
MAX32674C	Ultra-Low-Power Biometric Algorithm/Sensor Hub	RECOMMENDED FOR NEW DESIGNS	2	Sensor Hub	Ultra-Low-Power Biometric Algorithm/Sensor Hub
MAX32663A	Ultra-Low Power ECG Biometric Sensor Hub	PRODUCTION	1	Sensor Hub	Ultra-Low Power ECG Biometric Sensor Hub
MAXM86146	Complete Optical Biosensing Module with Ultra-Low-Power Biometric Sensor Hub	RECOMMENDED FOR NEW DESIGNS	1	Optical Module, Sensor Hub	Complete Optical Biosensing Module with Ultra-Low-Power Biometric Sensor Hub
MAX32664	Ultra-Low Power Biometric Sensor Hub	PRODUCTION	1	Sensor Hub	Ultra-Low Power Biometric Sensor Hub

Temperature Sensor and Control Devices

Parts	Description	Product Lifecycle	# of Channels	Device Primary Function	Temp Sensor Interface	Data Output Interface	Max Error Over Temp	Comments
MAX31732	Four-Channel Remote Temperature Sensor	RECOMMENDED FOR NEW DESIGNS	4	Temperature Data Logger, Temperature Monitor, Temperature Sensor	Diode	I2C	3	-
MAX30210	±0.1°C Accurate, Ultra-Small, Low-Power I2C Digital Temperature Sensor	PRODUCTION	1	Temperature Sensor	Clinical Grade, Wearable	I2C	0.1	Low Power, High Accuracy, Small Form size, Digital Temperature Sensor
MAX30207	±0.1°C Accurate, 1-Wire® Digital Temperature Sensor	PRODUCTION	1	Temperature Sensor	Clinical Accuracy Temperature Sensor, Clinical Grade, Temperature, Wearable	1-Wire	0.1	±0.1°C Accurate, 1-Wire Digital Temperature Sensor
MAX31888	±0.25°C Accurate 1-Wire Temperature Sensor	PRODUCTION	1	Temperature Sensor	Local	1-Wire	0.25	±0.25°C Accurate 1-Wire Temperature Sensor
LTM2985	Isolated High Accuracy Digital Temperature Measurement System with EEPROM	RECOMMENDED FOR NEW DESIGNS	10	Digital Temperature Measurement System	Diode, RTD, Thermistor, Thermocouple	SPI	0.1	Isolated High Accuracy Digital Temperature Measurement System with EEPROM
MAX31827	Low-Power Temperature Switch with I2C Interface	RECOMMENDED FOR NEW DESIGNS	1	Temperature Sensor, Temperature Switch	Local	I2C	1	Low-Power Temperature Switch with I2C Interface
MAX31828	Low-Power Temperature Switch with I2C Interface	RECOMMENDED FOR NEW DESIGNS	1	Temperature Sensor, Temperature Switch	Local	I2C	1	Low-Power Temperature Switch with I2C Interface
MAX31829	Low-Power Temperature Switch with I2C Interface	RECOMMENDED FOR NEW DESIGNS	1	Temperature Sensor, Temperature Switch	Local	I2C	1	Low-Power Temperature Switch with I2C Interface
MAX31825	1-Wire® Temperature Sensor with ±1ºC Accuracy	RECOMMENDED FOR NEW DESIGNS	1	Temperature Sensor	Local	1-Wire	1	±1ºC Accuracy 1-Wire Temperature Sensor With Alarm
MAX31889	±0.25°C Accurate I2C Temperature Sensor	PRODUCTION	1	Temperature Sensor	Local	I2C	0.25	±0.25°C Accurate I2C Temperature Sensor

	Description	Product Lifecycle	# of Channels	Device Primary Function	Temp Sensor Interface	Data Output Interface	Max Error Over Temp	Comments
ADT7422	±0.1°C Accuracy, 16-Bit, Digital I2C Temperature Sensor for VSM Applications	RECOMMENDED FOR NEW DESIGNS	1	Temperature Sensor	Internal Temp Sensor	I2C	0.5	±0.1°C Accuracy, 16-Bit, Digital I2C Temperature Sensor for VSM Applications
MAX30208	±0.1°C Accurate, I2C Digital Temperature Sensor	PRODUCTION	1	Temperature Sensor	Clinical Grade, Wearable	I2C	0.1	Low power, High-Accuracy Digital Temperature Sensor
MAX31875	Low-Power I2C Temperature Sensor in WLP Package	PRODUCTION	1	Temperature Sensor	Local	I2C	2	Low-Power I2C Temperature Sensor in WLP Package
MAX30205	Human Body Temperature Sensor	PRODUCTION	1	Temperature Sensor	Clinical Grade, Local, Wearable	I2C	0.1	±0.1°C Medical Grade Temperature Sensors for Thermometer Applications
LTC2986	Multi-Sensor High Accuracy Digital Temperature Measurement System with EEPROM	RECOMMENDED FOR NEW DESIGNS	10	Digital Temperature Measurement System	Diode, RTD, Thermistor, Thermocouple	SPI	0.1	Multi-Sensor High Accuracy Digital Temperature Measurement System with EEPROM
DS1925	iButton High-Density Temperature Logger with 122KB Data-Log Memory	RECOMMENDED FOR NEW DESIGNS	1	Temperature Data Logger	Local	1-Wire	0.5	IButton High-Capacity Temperature Logger
DS1925L	iButton High-Density Temperature Logger with 122KB Data-Log Memory	RECOMMENDED FOR NEW DESIGNS	1	Temperature Data Logger	Local	1-Wire	0.5	IButton High-Capacity Temperature Logger
LTC2984	Multi-Sensor High Accuracy Digital Temperature Measurement System with EEPROM	RECOMMENDED FOR NEW DESIGNS	20	Digital Temperature Measurement System	Diode, RTD, Thermistor, Thermocouple	SPI	0.1	Multi-Sensor High Accuracy Digital Temperature Measurement System with EEPROM
MAX31856	Precision Thermocouple to Digital Converter with Linearization	PRODUCTION	1	Temperature Sensor	Remote	SPI	1.5	Precision Thermocouple to Digital Converter with Linearization
LTC2983	Multi-Sensor High Accuracy Digital Temperature Measurement System	RECOMMENDED FOR NEW DESIGNS	20	Digital Temperature Measurement System	Diode, RTD, Thermistor, Thermocouple	SPI	0.1	20 Configurable Inputs for Complete Temperature Measurement of Any Sensor
MAX31629	I2C Digital Thermometer and Real-Time Clock	RECOMMENDED FOR NEW DESIGNS	1	Temperature Sensor	Local	I2C	2	I2C Digital Thermometer and Real-Time Clock

	Description	Product Lifecycle	# of Channels	Device Primary Function	Temp Sensor Interface	Data Output Interface	Max Error Over Temp	Comments
MAX31730	3-Channel Remote Temperature Sensor	PRODUCTION	3	Temperature Sensor	Remote	I2C	1	3-Channel Remote Temperature Sensor
MAX31820	1-Wire Ambient Temperature Sensor	PRODUCTION	1	Temperature Sensor	Local	1-Wire	0.5	1-Wire Ambient Temperature Sensor
MAX31820PAR	1-Wire Parasite-Power, Ambient Temperature Sensor	PRODUCTION	1	Temperature Sensor	Local	1-Wire	0.5	1-Wire Parasite Powered Ambient Air Sensor
MAX31850	Cold-Junction Compensated, 1-Wire Thermocouple-to-Digital Converters	PRODUCTION	1	Temperature Sensor	Remote	1-Wire	2	1-Wire Thermcouple to Digital Converter

По вопросам продаж и поддержки обращайтесь:

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Россия +7(495)268-04-70 Казахстан +7(7172)727-132 Киргизия +996(312)96-26-47

эл.почта: agu@nt-rt.ru || сайт: https://analog.nt-rt.ru/