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Fiber Optic Control

Parts	Description	Product Lifecycle	Device Primary Function	Is typ	Vs+ min	Vs+ max
ADL5309	Dual, 188 dB Range, 10 pA to 25 mA, Logarithmic Converter	RECOMMENDED FOR NEW DESIGNS	Logarithmic Amplifier	57m	3	5.25
ADA4351-2	Compact, Dual-Channel, Precision, Programmable Gain Transimpedance Amplifier (PGTIA)	RECOMMENDED FOR NEW DESIGNS	-	3.3m	-	-
ADL5308	Fast Response 188 dB Range (10 pA to 25 mA) Logarithmic Converter	RECOMMENDED FOR NEW DESIGNS	Logarithmic Amplifier	32m	4.75	5.25
LT8722	Ultracompact 4A, 15V, Full Bridge Driver with SPI	RECOMMENDED FOR NEW DESIGNS	Thermoelectric Cooler Controller	-	-	-
ADA4355	Programmable Transimpedance, Current to Bits Receiver µModule	RECOMMENDED FOR NEW DESIGNS	Current to Digital, Signal Chain uModule Receivers	-	3.1	3.6
LTM4663	Ultrathin 1.5A µModule Thermoelectric Cooler (TEC) Regulator	RECOMMENDED FOR NEW DESIGNS	Thermoelectric Cooler Controller	3.8m	2.7	5.5
ADN8835	Ultracompact, 3 A Thermoelectric Cooler (TEC) Controller	RECOMMENDED FOR NEW DESIGNS	Thermoelectric Cooler Controller	3.3m	2.7	5.5
LTM8064	58VIN, 6A CVCC Step-Down µModule Regulator	RECOMMENDED FOR NEW DESIGNS	-	2.5m	6	58
ADA4350	FET Input Analog Front End with ADC Driver	RECOMMENDED FOR NEW DESIGNS	-	-	-	-
ADN8833	Ultracompact, 1 A Thermoelectric Cooler (TEC) Driver for Digital Control Systems	RECOMMENDED FOR NEW DESIGNS	Thermoelectric Cooler Controller	2.1m	2.7	5.5
ADN8834	Ultracompact 1.5 A Thermoelectric Cooler (TEC) Controller	RECOMMENDED FOR NEW DESIGNS	Thermoelectric Cooler Controller	3.3m	2.7	5.5
ADL5303	160 dB Range, 100 pA to 10 mA Logarithmic Converter	RECOMMENDED FOR NEW DESIGNS	Translinear Log Amplifier	4.5m	3	5.5
ADL5304	High Speed, 200 dB Range, Current to Voltage Logarithmic Converter	RECOMMENDED FOR NEW DESIGNS	Translinear Log Amplifier	20.8m	4.5	5.5
ADL5306	60 dB-RANGE (100 nA-100 µA) Low-Cost Logarithmic Converter	PRODUCTION	Translinear Log Amplifier	5.4m	3	5.5

	Description	Product Lifecycle	Device Primary Function	Is typ	Vs+ min	Vs+ max
ADL5315	Precision Wide-range (3 nA - 3 mA) High-Side Current Mirror	PRODUCTION	Current Mirror	8.3m	2.7	8
ADN8831	A High Efficiency TEC Controller Solution	PRODUCTION	Thermoelectric Cooler Controller	15m	3	5.5
ADL5310	120 dB RANGE (3 nA TO 3 mA) Dual Logarithmic Converter	PRODUCTION	Translinear Log Amplifier	9.5m	3	12
ADL5317	Avalanche Photodiode Bias Controller and Wide-range (5 nA - 5 mA) Current Monitor	PRODUCTION	Current Mirror	3.6m	4	6
AD8304	160 dB Logarithmic Amplifier with Photo-Diode Interface	PRODUCTION	Translinear Log Amplifier	4.5m	3	5.5
AD8305	100 dB-range (10nA-1mA) Logarithmic Converter	PRODUCTION	Translinear Log Amplifier	5.4m	3	12
MAX4206	Precision Transimpedance Logarithmic Amplifier with Over 5 Decades of Dynamic Range	PRODUCTION	Transimpedance Logarithmic Amplifirer	3.9m	2.7	11
MAX4207	Precision Transimpedance Logarithmic Amplifier with Over 5 Decades of Dynamic Range	PRODUCTION	Transimpedance Logarithmic Amplifirer	5m	2.7	11
MAX8520	Smallest TEC Power Drivers for Optical Modules	PRODUCTION	Thermoelectric Cooler Controller	11m	3	5.5
MAX8521	Smallest TEC Power Drivers for Optical Modules	PRODUCTION	Thermoelectric Cooler Controller	11m	3	5.5
MAX1978	Integrated Temperature Controllers for Peltier Modules	PRODUCTION	Thermoelectric Cooler Controller	-	3	5.5
MAX1979	Integrated Temperature Controllers for Peltier Modules	PRODUCTION	Thermoelectric Cooler Controller	-	3	5.5
MAX1968	Power Drivers for Peltier TEC Modules	PRODUCTION	Thermoelectric Cooler Controller	-	3	5.5
MAX1969	Power Drivers for Peltier TEC Modules	PRODUCTION	Thermoelectric Cooler Controller	-	3	5.5
LTC1923	High Efficiency Thermoelectric Cooler Controller	PRODUCTION	Thermoelectric Cooler Controller	2m	2.7	6

Fiber Optic Data

Parts	Product Lifecycle	Description	Device Primary Function	Data Rate max	Vs+ min	Vs+ max	Power typ
LTC6563	RECOMMENDED FOR NEW DESIGNS	Four-Channel Transimpedance Amplifier with Output Multiplexing	Transimpedance Amplifier	-	3	3.6	200m
MAX40213	PRODUCTION	Transimpedance Amplifiers with Selectable Gain and Input Current Clamp	Transimpedance Amplifier	-	-	-	-
ADA4355	RECOMMENDED FOR NEW DESIGNS	Programmable Transimpedance, Current to Bits Receiver µModule	Current to Digital, Signal Chain uModule Receivers	1G	3.1	3.6	540m
MAX40662	RECOMMENDED FOR NEW DESIGNS	Quad Transimpedance Amplifier with Input Current Clamp and Multiplexer for LiDAR	Transimpedance Amplifier	-	-	-	-
MAX40660	PRODUCTION	High-Bandwidth Automotive Transimpedance Amplifier with Fast Output Recovery and Input Current Clamp for LiDAR	Transimpedance Amplifier	-	-	-	-
MAX40661	PRODUCTION	High-Bandwidth Automotive Transimpedance Amplifier with Fast Output Recovery and Input Current Clamp for LiDAR	Transimpedance Amplifier	-	-	-	-
LTC6561	RECOMMENDED FOR NEW DESIGNS	Four-Channel Multiplexed Transimpedance Amplifier with Output Multiplexing	Transimpedance Amplifier	220M	4.75	5.25	228m
LTC6560	RECOMMENDED FOR NEW DESIGNS	Single Channel Transimpedance Amplifier with Output Multiplexing	Transimpedance Amplifier	220M	4.75	5.25	90m
MAX40658	PRODUCTION	Transimpedance Amplifier with 100mA Input Current Clamp for LiDAR Applications	Transimpedance Amplifier	-	-	-	-
MAX40659	PRODUCTION	Transimpedance Amplifier with 100mA Input Current Clamp for LiDAR Applications	Transimpedance Amplifier	-	-	-	-
ADN2905	NOT RECOMMENDED FOR NEW DESIGNS	CPRI and 10G Ethernet Data Recovery IC with AMP/EQ from 614.4 Mbps to 10.3125 Gbps	Clock Data Recovery/Retiming	9.83G	1.2	3.3	349.5m
DS3922	NOT RECOMMENDED FOR NEW DESIGNS	High-Speed Current Mirror and Integrated FETs for DC-DC Controller	Fiber Photodiode Current Monitors	-	-	-	-
ADN2917	NOT RECOMMENDED FOR NEW DESIGNS	Continuous Rate 8.5 Gbps to 11.3 Gbps Clock and Data Recovery IC with Integrated Limiting Amp/EQ	Clock Data Recovery/Retiming	11.3G	1.2	3.3	352m

	Product Lifecycle	Description	Device Primary Function	Data Rate max	Vs+ min	Vs+ max	Power typ
ADN2913	NOT RECOMMENDED FOR NEW DESIGNS	Continuous Rate 6.5 Mbps to 8.5 Gbps Clock and Data Recovery IC with Integrated Limiting Amp/EQ	Clock Data Recovery/Retiming	8.5G	1.2	3.3	446.6m
DS4830A	PRODUCTION	Optical Microcontroller	Fiber Monitoring and Control	-	-	-	-
DS1856M	NOT RECOMMENDED FOR NEW DESIGNS	Dual, Temperature-Controlled Resistors with Calibrated Monitors and Password Protection	Fiber Monitoring and Control	-	-	-	-
MAX3948	NOT RECOMMENDED FOR NEW DESIGNS	11.3Gbps, Low-Power, DC-Coupled Laser Driver	Laser Driver	11.3G	-	-	-
MAX3949	NOT RECOMMENDED FOR NEW DESIGNS	11.3Gbps, Low-Power, AC-Coupled Laser Driver	Laser Driver	11.3G	-	-	-
DS3911	NOT RECOMMENDED FOR NEW DESIGNS	Temperature-Controlled, Nonvolatile, I²C Quad DAC	Fiber Monitoring and Control	-	-	-	-
DS3920	NOT RECOMMENDED FOR NEW DESIGNS	Fast Current Mirror	Fiber Photodiode Current Monitors	-	-	-	-
PHY1040	PRODUCTION	125Mbps to 1.25Gbps VCSEL/Laser Driver and Postamplifier	Optical Tranceivers	-	-	-	-
PHY1095	NOT RECOMMENDED FOR NEW DESIGNS	High-Sensitivity Transimpedance Amplifier	Transimpedance Amplifier	1.25G	-	-	-
PHY1097	NOT RECOMMENDED FOR NEW DESIGNS	High-Sensitivity Transimpedance Amplifier	Transimpedance Amplifier	2.448G	-	-	-
PHY2078	PRODUCTION	125Mbps to 2.5Gbps FTTx Burst-Mode Laser Driver/Postamplifier	Optical Tranceivers	-	-	-	-
DS1878	NOT RECOMMENDED FOR NEW DESIGNS	SFP+ Controller with Digital LDD Interface	Fiber Monitoring and Control	-	-	-	-
DS1877	NOT RECOMMENDED FOR NEW DESIGNS	SFP Controller for Dual Rx Interface	Fiber Monitoring and Control	-	-	-	-
MAX3945	NOT RECOMMENDED FOR NEW DESIGNS	1.0625Gbps to 11.3Gbps, SFP+ Dual-Path Limiting Amplifier	Limiting Amplifirer	11.3G	-	-	-
HMC799	LAST TIME BUY	DC - 700 MHz, 10 kOhm Transimpedance Amplifier SMT	Transimpedance Amplifier	1G	4.5	5.5	350m
MAX3799	NOT RECOMMENDED FOR NEW DESIGNS	1Gbps to 14Gbps, SFP+ Multirate Limiting Amplifier and VCSEL Driver	Laser Driver	14G	-	-	-

	Product Lifecycle	Description	Device Primary Function	Data Rate max	Vs+ min	Vs+ max	Power typ
DS1843	NOT RECOMMENDED FOR NEW DESIGNS	Fast Sample-and-Hold Circuit	Fiber Photodiode Current Monitors	-	-	-	-
DS1842	NOT RECOMMENDED FOR NEW DESIGNS	76V, APD, Bias Output Stage with Current Monitoring	Fiber Photodiode Current Monitors	-	-	-	-
ADN2526	NOT RECOMMENDED FOR NEW DESIGNS	11.3 Gbps Active Back-Termination, Differential Laser Diode Driver	Laser Driver	11.3G	3	3.6	244m
ADN2855	PRODUCTION	Multirate 155 Mbps/622 Mbps/1244 Mbps/1250 Mbps Burst Mode Clock and Data Recovery IC with Deserializerer	Clock Data Recovery/Retiming	1250M	3	3.6	670m
ADN2805	NOT RECOMMENDED FOR NEW DESIGNS	1.25 Gbps Clock and Data Recovery IC	Clock Data Recovery/Retiming	1.25G	3	3.6	389m
ADN2817	PRODUCTION	Continuous Rate 10 Mbps to 2.7 Gbps Clock and Data Recovery IC (With High Sensitivity Limiting Amp)	Clock Data Recovery/Retiming	2.7G	3	3.6	693m
ADN2818	NOT RECOMMENDED FOR NEW DESIGNS	Continuous Rate 10 Mbps to 2.7 Gbps Clock and Data Recovery IC	Clock Data Recovery/Retiming	2.7G	3	3.6	594m
ADN2812	PRODUCTION	Continuous Rate 12.3 Mb/s to 2.7 Gb/s Clock and Data Recovery IC with Integrated Limiting Amp	Clock Data Recovery/Retiming	2.7G	3	3.6	750m
ADN2871	NOT RECOMMENDED FOR NEW DESIGNS	3.3 V, 50 Mbps to 4.25 Gbps, Single-Loop, Laser Diode Driver	Laser Driver	4.25G	3	3.6	105m
ADN2804	NOT RECOMMENDED FOR NEW DESIGNS	622 Mbps Clock and Data Recovery IC with Integrated Limiting Amplifier	Clock Data Recovery/Retiming	0.622G	3	3.6	420m
ADN2806	NOT RECOMMENDED FOR NEW DESIGNS	622 Mbps Clock and Data Recovery IC	Clock Data Recovery/Retiming	0.622G	3	3.6	360m
MAX3643	NOT RECOMMENDED FOR NEW DESIGNS	155Mbps to 2.5Gbps Burst-Mode Laser Driver	Laser Driver	2.5G	-	-	-
ADN2816	PRODUCTION	Continuous Rate 10 Mb/s to 675 Mb/s Clock and Data Recovery IC	Clock Data Recovery/Retiming	0.675G	3	3.6	366m
ADN2813	NOT RECOMMENDED FOR NEW DESIGNS	Continuous Rate 12.3 Mb/s to 1.25 Gb/s Clock and Data Recovery IC with Integrated Limiting Amp	Clock Data Recovery/Retiming	1.25G	3	3.6	375m
ADN2815	NOT RECOMMENDED FOR NEW DESIGNS	Continuous Rate 10 Mb/s to 1.25 Gb/s Clock and Data Recovery IC	Clock Data Recovery/Retiming	1.25G	3	3.6	472m
ADN2880	LAST TIME BUY	3.2 Gbps 3.3V Low Noise TIA for Small Form Factors	Laser Driver	2.7G	3	3.6	70m

	Product Lifecycle	Description	Device Primary Function	Data Rate max	Vs+ min	Vs+ max	Power typ
ADN2892	NOT RECOMMENDED FOR NEW DESIGNS	3.3 V 4.25 Gb/s Limiting Amplifier	Limiting Amplifier	4.25G	3	3.6	160m
ADN2891	NOT RECOMMENDED FOR NEW DESIGNS	3.3 V, 3.2 Gbps Limiting Amplifier	Limiting Amplifier	3.2G	3	3.6	145m
ADN2870	NOT RECOMMENDED FOR NEW DESIGNS	3.3 V, Dual Loop, 50 Mbps to 3.3 Gbps Laser Diode Driver	Laser Driver	3.3G	3	3.6	99m
DS1856	NOT RECOMMENDED FOR NEW DESIGNS	Dual, Temperature-Controlled Resistors with Internally Calibrated Monitors and Password Protection	Fiber Monitoring and Control	-	-	-	-
AD800	NOT RECOMMENDED FOR NEW DESIGNS	45 or 52 Mbps Clock and Data Recovery IC	Clock Data Recovery/Retiming	156M	-	-	-
ADN2830	NOT RECOMMENDED FOR NEW DESIGNS	Average Power Controller for Continuous Wave (CW) Laser	Laser Driver	-	-	-	-
AD807	NOT RECOMMENDED FOR NEW DESIGNS	155 Mbps, Low Power, Post-Amp/Clock and Data Recovery IC	Clock Data Recovery/Retiming	0.155G	-	-	170m
AD8015	PRODUCTION	155 Mbps Transimpedance Amplifier	Transimpedance Amplifier	0.32G	-	-	125m
AD808	LAST TIME BUY	622 Mbps, Low Power, Post-Amp/Clock and Data Recovery IC	Clock Data Recovery/Retiming	0.622G	-	-	400m
MAX3747A	NOT RECOMMENDED FOR NEW DESIGNS	155Mbps to 3.2Gbps, Low-Power SFP Limiting Amplifiers	Limiting Amplifirer	3.2G	-	-	-
MAX3747B	NOT RECOMMENDED FOR NEW DESIGNS	155Mbps to 3.2Gbps, Low-Power SFP Limiting Amplifiers	Limiting Amplifirer	3.2G	-	-	-
MAX3969	NOT RECOMMENDED FOR NEW DESIGNS	200Mbps SFP Limiting Amplifier	Limiting Amplifirer	200M	-	-	-
MAX3646	NOT RECOMMENDED FOR NEW DESIGNS	155Mbps to 622Mbps SFF/SFP Laser Driver with Extinction Ratio Control	Laser Driver	622M	-	-	-
MAX3738	NOT RECOMMENDED FOR NEW DESIGNS	155Mbps to 4.25Gbps SFF/SFP Laser Driver with Extinction Ratio Control	Laser Driver	4.25G	-	-	-
MAX3736	NOT RECOMMENDED FOR NEW DESIGNS	3.2Gbps, Low-Power, Compact, SFP Laser Driver	Laser Driver	3.2G	-	-	-
MAX3740A	NOT RECOMMENDED FOR NEW DESIGNS	3.2Gbps SFP VCSEL Driver with Diagnostic Monitors	Laser Driver	3.2G	-	-	-

	Product Lifecycle	Description	Device Primary Function	Data Rate max	Vs+ min	Vs+ max	Power typ
LTC5100	PRODUCTION	3.3V, 3.2Gbps VCSEL Driver	Laser Driver	3.2G	3.135	3.465	-
DS1859	NOT RECOMMENDED FOR NEW DESIGNS	Dual, Temperature-Controlled Resistors with Internally Calibrated Monitors	Fiber Monitoring and Control	-	-	-	-
MAX3645	NOT RECOMMENDED FOR NEW DESIGNS	+2.97V to +5.5V, 125Mbps to 200Mbps Limiting Amplifier with Loss-of-Signal Detector	Limiting Amplifirer	200M	-	-	-
MAX3658	NOT RECOMMENDED FOR NEW DESIGNS	622Mbps, Low-Noise, High-Gain Transimpedance Preamplifier	Transimpedance Amplifier	622M	-	-	-
ADN2807	NOT RECOMMENDED FOR NEW DESIGNS	155/622 Mb/s Clock and Data Recovery IC with Integrated Limiting Amp	Clock Data Recovery/Retiming	0.622G	-	-	500m
ADN2841	NOT RECOMMENDED FOR NEW DESIGNS	Dual-Loop, 50 Mbps to 2.7 Gbps Laser Diode Driver	Laser Driver	2.7G	-	-	-
MAX4004	PRODUCTION	High-Accuracy, High-Side Current Monitors in SOT23	Fiber Photodiode Current Monitors	-	-	-	-
MAX4007	PRODUCTION	High-Accuracy, 76V, High-Side Current Monitors in SOT23	Fiber Photodiode Current Monitors	-	-	-	-
MAX3735	NOT RECOMMENDED FOR NEW DESIGNS	2.7Gbps, Low-Power SFP Laser Drivers	Laser Driver	-	-	-	-
MAX3735A	NOT RECOMMENDED FOR NEW DESIGNS	2.7Gbps, Low-Power SFP Laser Drivers	Laser Driver	2.7G	-	-	-
ADN2811	LAST TIME BUY	OC-48/OC-48 FEC Clock and Data Recovery	Clock Data Recovery/Retiming	2.7G	-	-	500m
ADN2819	NOT RECOMMENDED FOR NEW DESIGNS	Multi Rate Limiting Amplifier and Clock and Data Recovery ICs	Clock Data Recovery/Retiming	2.7G	-	-	500m
MAX3272	NOT RECOMMENDED FOR NEW DESIGNS	+3.3V, 2.5Gbps Low-Power Limiting Amplifiers	Limiting Amplifier	2.5G	-	-	-
MAX3272A	NOT RECOMMENDED FOR NEW DESIGNS	+3.3V, 2.5Gbps Low-Power Limiting Amplifiers	Limiting Amplifirer	2.5G	-	-	-
MAX3864	NOT RECOMMENDED FOR NEW DESIGNS	2.5Gbps, +3V to +5.5V, Wide Dynamic Range Transimpedance Preamplifier	Transimpedance Amplifier	2.5G	-	-	-
MAX3665	NOT RECOMMENDED FOR NEW DESIGNS	622Mbps, Ultra-Low-Power, 3.3V Transimpedance Preamplifier for SDH/SONET	Transimpedance Amplifier	622M	-	-	-

	Product Lifecycle	Description	Device Primary Function	Data Rate max	Vs+ min	Vs+ max	Power typ
HMC7144	RECOMMENDED FOR NEW DESIGNS	28 Gbps EML Driver w/ Peak-Detector	Modulator Driver	28.3G	3.5	-	0.3
HMC7150	RECOMMENDED FOR NEW DESIGNS	28 Gbps EML Driver	Modulator Driver	28.3G	-	-	0.5
HMC750	LAST TIME BUY	12.5 Gbps Limiting Amplifier SMT	Limiting Amplifier	12.5G	4.5	5.5	530m
HMC865	RECOMMENDED FOR NEW DESIGNS	32 Gbps Limiting Amplifier SMT	Limiting Amplifier	32G	3.47	3.13	297m
HMC866	PRODUCTION	Translinear Logarithmic Amplifier	Limiting Amplifier	43G	3.47	3.13	281m
HMC870	RECOMMENDED FOR NEW DESIGNS	MZ Optical Modulator Driver SMT, DC - 20 GHz	Modulator Driver	40G	5	7	0.7
HMC871	RECOMMENDED FOR NEW DESIGNS	EA Optical Modulator Driver SMT, DC - 20 GHz	Modulator Driver	10G	5	8	0.25
HMC914	LAST TIME BUY	12.5 Gbps Limiting Amplifier SMT, with Loss of Signal Feature	Limiting Amplifier	12.5G	3.6	3	155m

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

	Description	Product Lifecycle	Topology	Target Applications	Interface Protocol	# of Internal Photodiodes typ	# of External LED Drivers	# of External Current Inputs
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	-	-	-
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	-	-	-	-

	Description	Product Lifecycle	Topology	Target Applications	Interface Protocol	# of Internal Photodiodes typ	# of External LED Drivers	# of External Current Inputs
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	-	-
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

	Description	Product Lifecycle	Topology	Target Applications	Interface Protocol	# of Internal Photodiodes typ	# of External LED Drivers	# of External Current Inputs
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

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