



Parallel Output Analog-to-Digital Converters Selection Guide

Generic Part #	# Analog Input Channels	Resolution (Bits)	Thruput Rate or Time	Thruput Rate or Time Units	Full Scale Input Range (V)	Power Supply (V nom)	Power Dissipation (mW max)	Reference (Int/Ext)	Clock (Int/Ext)	Sigma-Delta (Yes/No)	Description
AD7819	1	8	200	kSPS	Uni VREF	Single (+3 to +5)	17.5	Ext	Int	No	+2.7 V to +5.5 V, 200 kSPS, 8-Bit Sampling ADC with Parallel Outputs
AD7822	1	8	2	MSPS	Vmid-1 to Vmid+1, Vmid-1.25 to Vmid+1.25	Single (+3 to +5)	36	Int, Ext	N/A	No	+3 V/+5 V, 8-Bit, 2 MSPS Parallel Output ADC
AD775	1	8	20	MSPS	2 p-p	Single (+5)	85	Ext	Ext	No	8-Bit 20 MSPS, 60 mW Sampling ADC
AD9280	1	8	32	MSPS	1 p-p, 2 p-p	Single (+3 to +5)	110	Int, Ext	Ext	No	8-Bit, Complete, 32 MSPS ADC
AD9048	1	8	35	MSPS	Uni -2	Dual (+5, -5.2)	864	Ext	Ext	No	Monolithic 8-Bit, 35 MSPS Video ADC
AD9057-40	1	8	40	MSPS	1 p-p	Single (+5)	281	Int, Ext	Ext	No	8-Bit, 40 MSPS, Single +5 V, ADC
AD9283-50	1	8	50	MSPS	Bip 0.5	Single (+3.3)	120	Int, Ext	Ext	No	8-Bit, Single +2.7 V to +3.6 V, 50 MSPS ADC
AD9057-60	1	8	60	MSPS	1 p-p	Single (+5)	281	Int, Ext	Ext	No	8-Bit, 60 MSPS, Single +5 V, ADC
AD9057-80	1	8	80	MSPS	1 p-p	Single (+5)	281	Int, Ext	Ext	No	8-Bit, 80 MSPS, Single +5 V, Flash ADC
AD9283-80	1	8	80	MSPS	Bip 0.5	Single (+3.3)	120	Int, Ext	Ext	No	8-Bit, Single +2.7 V to +3.6 V, 80 MSPS ADC
AD9012	1	8	100	MSPS	Uni VREF	Dual (+5, -5.2)	1233	Ext	Ext	No	High Speed 8-Bit, 100 MSPS TTL ADC
AD9283-100	1	8	100	MSPS	Bip 0.5	Single (+3.3)	120	Int, Ext	Ext	No	8-Bit, Single +2.7 V to +3.6 V, 100 MSPS ADC
AD9002	1	8	150	MSPS	Uni VREF	Single (-5.2)	1040	Ext	Ext	No	High Speed 8-Bit, 150 MSPS Monolithic ADC
AD9054A	1	8	200	MSPS	1 V p-p	Single (+5)	725	Int, Ext	Ext	No	8-Bit, 135 MSPS/200 MSPS ADC

AD9049	1	9	30	MSPS	1 p-p	Single (+5)	400	Int, Ext	Ext	No	9-Bit, 30 MSPS ADC
AD7776	1	10	380	kSPS	Vbias $\pm$ Vswing	Single (+5)	15	Int, Ext	Ext	No	High Speed, 10-Bit, Parallel Output ADC
AD7470	1	10	1.75	MSPS	Uni VREF	Single (+2.7 to +5.25)	4.5	Ext	Ext	No	10-Bit, +2.7 V to 5.25 V, 1.75 MSPS Low Power ADC with Parallel Output
AD876	1	10	20	MSPS	2 p-p	Single (+5)	190	Ext	Ext	No	10-Bit 20 MSPS, 160 mW, CMOS ADC
AD9200	1	10	20	MSPS	2 p-p	Single (+3 to +5)	100	Int, Ext	Ext	No	Complete 10-Bit, 20 MSPS, 80 mW CMOS ADC
AD9040	1	10	40	MSPS	Bip 1	Dual (+5, -5)	1100	Int, Ext	Ext	No	Complete 10-Bit Monolithic, 40 MSPS Sampling ADC
AD9050	1	10	40	MSPS	1 p-p	Single (+5)	400	Int, Ext	Ext	No	10-Bit, 40 MSPS/60 MSPS ADC
AD9203	1	10	40	MSPS	2 p-p	Single (+3.3)	75	Int, Ext	Ext	No	10-Bit, Low Power, Single +2.7 V to +3.6 V, 40 MSPS ADC
AD9020	1	10	60	MSPS	Bip 1.75	Dual (+5, -5)	3400	Ext	Ext	No	10-Bit, 60 MSPS ADC
AD9051	1	10	60	MSPS	1.25 p-p	Single (+5)	315	Int, Ext	Ext	No	10-Bit, 60 MSPS ADC
AD9060	1	10	75	MSPS	Bip 1.75	Dual (+5, -5.2)	3500	Ext	Ext	No	10-Bit, 75 MSPS ADC
AD9070	1	10	100	MSPS	Bip 0.5	Single (+5 or -5)	750	Int, Ext	Ext	No	10-Bit, 100 MSPS ADC
AD9071	1	10	100	MSPS	Bip 0.5	Single (+5)	620	Int, Ext	Ext	No	10-Bit, 100 MSPS ADC
AD9214	1	10	105	MSPS	2 p-p	Single (+3.3)	220	Int, Ext	Ext	No	10-Bit, 105 MSPS Analog-to-Digital Converter
AD9410	1	10	210	MSPS	1.5V p-p	Single (+5)	2200	Int, Ext	Ext	No	10-Bit, 210 MSPS ADC, Demux'd Output
AD674B	1	12	15	μ s	Uni 10, Uni 20, Bip 5, Bip 10	Triple (+15, -15, +5)	375	Int	Int	No	Complete 12-Bit ADC with Byte/Parallel Output
AD1674	1	12	100	kSPS	Bip VREF	Triple (+12, -12, +5)	575	Int	Int	No	12-Bit, 100 kSPS, Complete ADC with Byte/Parallel Outputs
AD7854L	1	12	100	kSPS	Uni VREF, Bip VREF/2	Single (+3 to +5.5)	6.5	Int, Ext	Ext	No	12-Bit, Low Power, Single +3 V/+5 V, 100 kSPS ADC with Byte/Parallel Outputs

AD7870	1	12	100	kSPS	BIP 3	Dual (+5, -5)	95	Int	Int, Ext	No	Complete 12-Bit, 100 kSPS ADC with Byte/Parallel/Serial Outputs
AD7876	1	12	100	kSPS	Bip 10	Dual (+5, -5)	95	Int	Int, Ext	No	Complete 12-Bit, 100 kHz, Byte/Parallel/Serial ADC with $\pm 10V$ Input Signal Range
AD7878	1	12	100	kSPS	Bip 3	Dual (+5, -5)	95.5	Int	Int, Ext	No	Complete 12-Bit, 100 kHz Sampling ADC with Parallel DSP Interface
AD7854	1	12	200	kSPS	Uni VREF, Bip VREF/2	Single (+3 to +5)	16.5	Int, Ext	Ext	No	+3 V to +5 V Single Supply, 200 kSPS 12-Bit ADC with Byte/Parallel Outputs
AD7892	1	12	600	kSPS	Uni 2.5, Bip 2.5, Bip 5, Bip 10	Single (+5)	90	Int, Ext	Int	No	Single Supply, 12-Bit, 600 kSPS ADC with Serial/Parallel Output
AD7492	1	12	1	MSPS	Uni 2.5	Single (+3), Single (+5), Range-Single (+2.7 to +5.25)	4.5	Int	Int	No	12-Bit, 1 MSPS, 4mW ADC
AD9221	1	12	1.25	MSPS	2 p-p, 5 p-p	Single (+5)	65	Int, Ext	Ext	No	Complete 12-Bit 1.25 MSPS Monolithic ADC
AD7472	1	12	1.5	MSPS	Uni VREF	Single (+2.7 to +5.25)	4.5	Ext	Ext	No	12-Bit, +2.7 V to 5.25 V, 1.5 MSPS Lo Pwr ADC with Parallel Output
AD1672	1	12	3	MSPS	Uni 2.5, Uni 5, Bip 2.5	Single (+5)	363	Int, Ext	Ext	No	Complete 12-Bit, 3 MSPS, Parallel Out ADC
AD9223	1	12	3	MSPS	2 p-p, 5 p-p	Single (+5)	130	Int, Ext	Ext	No	Complete 12-Bit, 3 MSPS Monolithic ADC
AD871	1	12	5	MSPS	Bip 1	Dual (+5, -5)	1250	Int, Ext	Ext	No	Complete 12-Bit, 5 MSPS Monolithic ADC
AD872A	1	12	10	MSPS	Bip 1	Dual (+5, -5)	1250	Int, Ext	Ext	No	Complete 12-Bit, 10 MSPS Monolithic ADC
AD9220	1	12	10	MSPS	2 p-p, 5 p-p	Single (+5)	310	Int, Ext	Ext	No	Complete 12-Bit, 10 MSPS Monolithic ADC
AD9034	1	12	20	MSPS	Bip 1.024	Dual (+5, -5.2)	5.1	Int	Ext	No	12-Bit, 20 MSPS A/D Converter
AD9225	1	12	25	MSPS	2 p-p, 4 p-p	Single (+5)	310	Int, Ext	Ext	No	Complete, 12-Bit, 25 MSPS Monolithic ADC
AD9032	1	12	25.6	MSPS	Bip 1.024	Dual (+5, -5.2)	4500	Int	Ext	No	12-Bit, 25.6 MSPS ADC
AD9224	1	12	40	MSPS	2 p-p, 4 p-p	Single (+5)	410	Int, Ext	Ext	No	Complete, 12-Bit 40 MSPS Monolithic ADC

AD9042	1	12	41	MSPS	VREF +/- 0.5	Single (+5)	735	Int	Ext	No	12-Bit, 41 MSPS Monolithic ADC
AD6640	1	12	65	MSPS	2 p-p	Single (+5)	865	Int	Ext	No	12-Bit, 65 MSPS, IF Sampling ADC
AD9226	1	12	65	MSPS	2 p-p	Single (+5)	500	Int, Ext	Ext	No	12-Bit, 65 MSPS ADC
AD9235	1	12	65	MSPS	Bip 1.0, Bip 2.0	Single (+3)		Int, Ext	Ext	No	12-Bit, 65 MSPS , 3 V Analog-to-Digital Converter
AD9432-80	1	12	80	MSPS	2 p-p	Single (+5)	850	Int, Ext	Ext	No	12-Bit, Single +5 V, 80 MSPS ADC
AD9432-105	1	12	105	MSPS	2 p-p	Single (+5)	850	Int, Ext	Ext	No	12-Bit, Single +5 V, 105 MSPS ADC
AD9433	1	12	125	MSPS	Bip 1.0	(+5, +3.3)		Int, Ext	Ext	No	12-Bit, 125 MSPS IF Sampler A/D Converter
AD7871	1	14	83	kSPS	BIP 3	Dual (+5, -5)	95	Int	Int, Ext	No	Complete 14-Bit, Sampling ADC with Byte, Parallel and Serial Outputs
AD7899	1	14	400	kSPS	Uni 2.5	Single(+5)	70	Int, Ext	Int	No	5 V Single Supply 14-Bit 400 kSPS ADC
AD9241	1	14	1.25	MSPS	2 p-p, 5 p-p	Single (+5)	85	Int, Ext	Ext	No	Complete 14-Bit, 1.25 MSPS Monolithic ADC
AD9243	1	14	3	MSPS	2 p-p, 5 p-p	Single (+5)	145	Int, Ext	Ext	No	Complete 14-Bit, Single +5 V, 3 MSPS Monolithic ADC
AD9240	1	14	10	MSPS	2 p-p, 5 p-p	Single (+5)	330	Int, Ext	Ext	No	Complete 14-Bit, 10 MSPS Monolithic ADC
AD6644-40	1	14	40	MSPS	2 p-p	Single (+5)	1200	Int, Ext	Ext	No	Complete 14-Bit 40 MSPS Monolithic ADC
AD6644-65	1	14	65	MSPS	2 p-p	Single (+5)	1200	Int, Ext	Ext	No	Complete 14-Bit 65 MSPS Monolithic ADC
AD6644-80	1	14	80	MSPS	2 p-p	Single (+5)	1200	Int, Ext	Ext	No	Complete 14-Bit 80 MSPS Monolithic ADC
AD676	1	16	100	kSPS	Bip 5, Bip 10, Bip VREF	Triple (+15, -15, +5)	480	Ext	Ext	No	16-Bit Parallel, 100 kSPS ADC.
AD976	1	16	100	kSPS	Bip 10	Single (+5)	100	Int, Ext	Int	No	16-Bit, 100 kSPS, Parallel I/O ADC
AD7884	1	16	166	kSPS	Bip 3, Bip 5	Dual (+5, -5)	325	Ext	Int	No	16-Bit, 166 kSPS, Parallel Output ADC
AD7885	1	16	166	kSPS	Bip 3, Bip 5	Dual (+5, -5)	325	Ext	Int	No	16-Bit, 166 kSPS, Byte Output ADC
AD976A	1	16	200	kSPS	Bip 10	Single (+5)	100	Int, Ext	Int	No	16-Bit, 200 kSPS, Parallel I/O ADC

AD7722	1	16	220	kSPS	Uni 2.5, Bip 1.25	Single (+5)	375	Int, Ext	Ext	Yes	16-Bit, 195 kSPS Sigma-Delta ADC with Serial/Parallel Outputs
AD7721	1	16	470	kSPS	Uni VREF, Bip VREF/2	Single (+5)	150	Ext	Ext	Yes	12-/16-Bit, 312.5 kHz/468.75 kHz Sigma-Delta ADC with Serial/Parallel Outputs
AD7723	1	16	1.2	MSPS	Uni 8/5 (VREF2), Bip 4/5(VREF2)	Single (+5)	475	Int, Ext	Int, Ext	Yes	16-Bit, 1.2 MSPS, Sigma-Delta ADC with Serial/Parallel Outputs
AD9260	1	16	2.5	MSPS	1.6 p-p, 4 p-p	Single (+5)	630	Int, Ext	Ext	Yes	16-Bit, 2.5 MSPS, High Speed Oversampled ADC
AD1555/AD1556	1	24	1	kSPS	Bip 2.25	Dual (+5, -5)		Ext	Ext	Yes	24-Bit Sigma Delta Modulator, Filter Decimator Chip Set
AD9066	2	6	60	MSPS	0.5 p-p	Single (+5)	600	Ext	Ext	No	Dual 6-Bit, 60 MSPS Monolithic ADC
AD9281	2	8	28	MSPS	1 p-p, 2 p-p	Single (+3 to +5)	260	Int, Ext	Ext	No	Dual Channel, 8-Bit Resolution, 28 MSPS Complete CMOS ADC
AD9288-40	2	8	40	MSPS	0.512 p-p	Single (+3.3)	180	Int, Ext	Ext	No	8-Bit, 40 MSPS Flash ADC
AD9058	2	8	50	MSPS	2 p-p	Dual (+5, -5)	960	Int, Ext	Ext	No	Dual 8-Bit, 50 MSPS ADC
AD9059	2	8	60	MSPS	1 p-p	Single (+5)	505	Int, Ext	Ext	No	Dual 8-Bit, 60 MSPS ADC
AD9288-80	2	8	80	MSPS	0.512 p-p	Single (+3.3)	180	Int, Ext	Ext	No	8-Bit, 80 MSPS ADC
AD9288-100	2	8	100	MSPS	0.512 p-p	Single (+3.3)	180	Int, Ext	Ext	No	8-Bit, 100 MSPS ADC
AD9201	2	10	20	MSPS	1 p-p, 2 p-p	Single (+3 to +5)	245	Int, Ext	Ext	No	Dual Channel 20 MSPS, 10-Bit Resolution CMOS ADC
AD10242	2	12	40	MSPS	Bip 0.5, Bip 1.0, Bip 2.0	(+5, +3.3)	2400	Int	Ext	No	Dual Channel, 12-Bit, 40 MSPS MCM A/D Converter with DC-Coupled Analog Input Signal Conditioning (AD9042 Core ADC)
AD10265	2	12	65	MSPS	Bip 0.5, Bip 1.0, Bip 2.0	(+5, -5, +3.3)	2400	Int	Ext	No	Dual Channel, 12-Bit, 65 MSPS A/D Converter with AC-Coupled Analog Input Signal Conditioning (AD6640 Core ADC)
AD9483-100	3	8	100	MSPS	Bip 0.5	Single (+5)	1300	Int, Ext	Ext	No	Triple 8-Bit, 100 MSPS ADC Optimized for RGB Graphics Applications

AD9483-140	3	8	140	MSPS	Bip 0.5	Single (+5)	1300	Int, Ext	Ext	No	Triple 8-Bit, 140 MSPS ADC Optimized for RGB Graphics Applications
AD9884A	3	8	140	MSPS	1 p-p	Single (+3.3)		Int, Ext	Int, Ext	No	Triple 8-Bit, 140 MSPS ADC, RGB Graphics Digitizer for SXGA LCD Monitors
AD7825	4	8	2	MSPS	Vmid-1 to Vmid+1, Vmid-1.25 to Vmid+1.25	Single (+3 to +5)	36	Int, Ext	N/A	No	+3 V/+5 V, 8-Bit, 4-Channel, 2 MSPS, Parallel Output, Data Acquisition System
AD7777	4	10	380	kSPS	Vbias $\pm$ Vswing	Single (+5)	15	Int, Ext	Ext	No	High Speed 4-Channel 10-Bit, Parallel Output ADC.
AD7874	4	12	29	kSPS	Bip 10	Dual (+5, -5)	150	Int, Ext	Int, Ext	No	4-Channel Simultaneous Sampling, 12-Bit Data Acquisition System, Parallel Out
AD7862	4	12	250	kSPS	Uni 2.5, Bip 2.5, Bip 10	Single (+5)	75	Int, Ext	Int	No	Simultaneous Sampling, Dual 250 kSPS, 12-Bit ADC with Parallel Output
AD7864	4	12	500	kSPS	Uni 2.5, Uni 5, Bip 2.5, Bip 5, Bip 10	Single (+5)	120	Int, Ext	Int, Ext	No	High Speed, Low Power, 4-Channel Simultaneous Sampling, 12-Bit Parallel ADC
AD7863	4	14	175	kSPS	Uni 2.5, Bip 2.5, Bip 10	Single (+5)	52.5	Int, Ext	Int	No	Simultaneous Sampling, Dual 175 kSPS, 14-Bit ADC with Parallel Output
AD7865	4	14	350	kSPS	Bip 2.5, Bip 5, Bip 10	Single (+5)	130	Int, Ext	Int, Ext	No	4-Channel, Simultaneous Sampling, 14-Bit Parallel Output ADC
AD7829	8	8	2	MSPS	Vmid-1 to Vmid+1, Vmid-1.25 to Vmid+1.25	Single (+3 to +5)	36	Int, Ext	N/A	No	+3 V/+5 V, 8-Bit, 8-Channel, 2 MSPS, Parallel Output Data Acquisition System
AD7778	8	10	380	kSPS	Vbias $\pm$ Vswing	Single (+5)	15	Int, Ext	Ext	No	High Speed, 8-Channel, 10-Bit Parallel Output ADC.
AD7859L	8	12	100	kSPS	Uni VREF, Bip VREF/2	Single (+3 to +5.5)	1.95	Int, Ext	Ext	No	12-Bit, 8-Channel, Low Power, Single +3 V/+5 V, 100 kSPS, Byte/Parallel Out ADC
AD7859	8	12	200	kSPS	Uni VREF, Bip VREF/2	Single (+3 to +5.5)	16.5	Int, Ext	Ext	No	+3 V to +5 V Single Supply, 200 kSPS, 8-Channel, 12-Bit Byte/Parallel Out ADC
AD7891	8	12	500	kSPS	Uni 2.5, Uni 5, Bip 2.5, Bip 5, Bip 10	Single (+5)	85	Int, Ext	Int	No	8-Channel, 500 kSPS, 12-Bit High Speed, Serial/Parallel Data Acquisition System

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