

DATA CONVERTER SELECTOR GUIDE

Digital to Analog Converters (DACs)									
Part Number	# of Converters	Resolution (Bits)	Conversion Rate (MWPS)	Settling Time (ns)	DNL (max) (%/FS)	INL (max) (%/FS)	Power Dissipation (max) (mW)	Temp Range (°C)	Packages
CDK3400	3	10	100	n/a	±0.25	±0.25	655	0 to 70	TQFP-48
CDK3401	3	10	150	n/a	±0.25	±0.25	655	0 to 70	TQFP-48
CDK3402	3	8	100	n/a	±0.3	±0.3	655	0 to 70	TQFP-48
CDK3403	3	8	150	n/a	±0.3	±0.3	655	0 to 70	TQFP-48
CDK3404	3	8	180	2.5	±0.5 LSB	±0.5 LSB	300	-40 to 125	TQFP-48
CDK3405	3	8	180	2.5	±0.5 LSB	±0.5 LSB	300	-40 to 125	TQFP-48

Note: CDK3405 matches ADV7125 pinout.

Analog to Digital Converters (ADCs)													
Part Number	# of Ch	Resolution (Bits)	Sample Rate (max) (MSPS)	SNR (dBFS)	SINAD (dBFS)	SFDR (dBc)	ENOB (Bits)	Power Consumption per Ch (mW)	Total Power Dissipation (mW)	Input Type	Architecture	Temp Range (°C)	Packages
CDK1300	1	8	250	43.0	40.0	43	6.4	310	310	Diff	Folding	-40 to 85	TQFP-44
CDK1301	1	8	250	46.1	43.7	47	7.0	425	425	Diff	Fold/Interpolation	-40 to 85	TQFP-44
CDK1302	1	8	750	44.0	41.0	43	6.5	5500	5500	SE	Flash	-25 to 85	MQUAD-80
CDK1303	1	8	1000	43.0	40.0	43	6.5	5500	5500	SE	Flash	-25 to 85	MQUAD-80
CDK1304	1	10	25	57.0	55.0	63	8.8	135	135	SE	Interleaved	0 to 70	TQFP-32, SOIC-28
CDK1305	1	10	40	54.0	54.0	63	8.7	175	175	SE	Interleaved	0 to 70	TQFP-32, SOIC-28
CDK1306	1	10	40	58.0	57.0	64	9.2	160	160	SE	Interleaved	0 to 70	TQFP-32, SOIC-28
CDK1307A	1	12	20	72.2	72.0	85	11.7	19	19	Diff	Pipeline	-40 to 85	QFN-40
CDK1307B	1	12	40	72.7	72.1	81	11.7	33	33	Diff	Pipeline	-40 to 85	QFN-40
CDK1307C	1	12	65	72.6	71.7	81	11.6	50	50	Diff	Pipeline	-40 to 85	QFN-40
CDK1307D	1	12	80	72.0	70.5	77	11.4	60	60	Diff	Pipeline	-40 to 85	QFN-40

Analog to Digital Converters (ADCs)

Part Number	# of Ch	Resolution (Bits)	Sample Rate (max) (MSPS)	SNR (dBFS)	SINAD (dBFS)	SFDR (dBc)	ENOB (Bits)	Power Consumption per Ch (mW)	Total Power Dissipation (mW)	Input Type	Architecture	Temp Range (°C)	Packages
CDK2307A	2	12	20	72.2	72.0	85	11.7	15	30	Diff	Pipeline	-40 to 85	QFN-64
CDK2307B	2	12	40	72.7	72.1	81	11.7	28	55	Diff	Pipeline	-40 to 85	QFN-64
CDK2307C	2	12	65	72.6	71.7	81	11.6	43	85	Diff	Pipeline	-40 to 85	QFN-64
CDK2307D	2	12	80	72.0	70.5	77	11.4	51	102	Diff	Pipeline	-40 to 85	QFN-64
CDK1308A	1	10	20	61.6	61.6	81	9.9	15	15	Diff	Pipeline	-40 to 85	QFN-40
CDK1308B	1	10	40	61.6	61.6	81	9.9	25	25	Diff	Pipeline	-40 to 85	QFN-40
CDK1308C	1	10	65	61.6	61.6	77	9.9	38	38	Diff	Pipeline	-40 to 85	QFN-40
CDK1308D	1	10	80	61.6	61.3	75	9.9	46	46	Diff	Pipeline	-40 to 85	QFN-40
CDK2308A	2	10	20	61.6	61.6	81	9.9	12	24	Diff	Pipeline	-40 to 85	QFN-64
CDK2308B	2	10	40	61.6	61.6	81	9.9	22	43	Diff	Pipeline	-40 to 85	QFN-64
CDK2308C	2	10	65	61.6	61.6	77	9.9	33	65	Diff	Pipeline	-40 to 85	QFN-64
CDK2308D	2	10	80	61.6	61.6	75	9.9	39	78	Diff	Pipeline	-40 to 85	QFN-64
CDK8307A	8	12	20	72.2	71.5	82	11.6	22	175	Diff	Pipeline	-40 to 85	QFN-64
CDK8307B	8	12	40	72.2	71.5	82	11.6	34	272	Diff	Pipeline	-40 to 85	QFN-64
CDK8307C	8	12	50	72.2	71.5	82	11.6	40	321	Diff	Pipeline	-40 to 85	QFN-64
CDK8307D	8	12	65	72.2	71.5	82	11.6	48	382	Diff	Pipeline	-40 to 85	QFN-64

Notes: Diff = Differential, SE = Single-Ended, Folding = Folding & Interpolation.