

# NATIONAL PRODUCTS Analog ICs

National Products  
from Texas Instruments

RoHS Compliant This product is RoHS compliant.

## VIDEO TIMING ICS (CONT.)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	National Products Part No.	Package Style	Supply Voltage (V)	Function	Supported Formats	Temp. Range (°C)	Price Each		
							1	25	100
926-LMH1980MM/NOPB	LMH1980MM/NOPB	MiniSOIC-10	3.3	Sync Separator	NTSC, SECAM, SD/PC bi-level and HD tri-level sync, 720p, 1080i/p, VESA, 576i/p, 480i/p, PAL	-40 to 85	5.52	4.50	4.04
926-LMH1981MT/NOPB	LMH1981MT/NOPB	TSSOP-14	3.3	Sync Separator	SD bi-level and HD tri-level sync, NTSC, 720p, 1080i/p, 576i/p, 480i/p, PAL	-40 to 85	12.23	10.02	9.04
926-LMH1982SQE/NOPB	LMH1982SQE/NOPB	LLP-32	3.3	Clock/Timing Gen	NTSC, 48-kHz audio clock input, 720p, 576 i/p, 480i/p, 1080 i/p, PAL	0 to 70	31.40	28.26	25.90
926-LMH1983SQE/NOPB	LMH1983SQE/NOPB	LLP-40	3.3	Clock/Timing Gen	NTSC, 48-kHz audio clock input, 720p, 576 i/p, 480i/p, 1080 i/p, PAL	-40 to 85	30.40	27.36	25.08

## ANALOG-TO-DIGITAL CONVERTERS (ADCS)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	National Products Part No.	Package Style	Res.	No. of Input Chan.	Architecture	INL (Max.) (±LSB)	DNL (Max.) (±LSB)	Sample Rate	Power Consumption (Typ.) (mW)	Price Each		
										1	25	100
926-ADC0804LCN/NOPB	ADC0804LCN/NOPB	DIP-20	8	1	SAR	---	---	10 KSPS	---	3.22	2.58	2.35
926-ADC0804LCN	ADC0804LCN	MDIP-20	8	1	SAR	1	1	10 KSPS	875	3.22	2.58	2.35
926-ADC0831CCN/NOPB	ADC0831CCN/NOPB	DIP-8	8	1	SAR	---	---	31 KSPS	15	2.79	2.25	2.02
926-ADC0838CIWMX/NOPB	ADC0838CIWMX/NOPB	SOIC-20	8	1	SAR	0.5	0.5	31 KSPS	800	2.94	2.40	2.15
926-ADC08832IMM/NOPB	ADC08832IMM/NOPB	MSOP-8	8	2	SAR	0.2	0.2	153 KSPS	8.5	2.84	2.18	1.98
926-ADC0809CCN/NOPB	ADC0809CCN/NOPB	DIP-28	8	8	SAR	---	---	10 KSPS	15	4.59	3.69	3.36
926-ADC0838CCWM/NOPB	ADC0838CCWM/NOPB	SOIC-20	8	8	SAR	---	---	31 KSPS	15	3.39	2.72	2.48
926-ADC0848CCN/NOPB	ADC0848CCN/NOPB	DIP-24	8	8	SAR	---	---	25 KSPS	15	5.99	4.81	4.38
926-ADC0848CCV/NOPB	ADC0848CCV/NOPB	PLCC-28	8	8	SAR	---	---	25 KSPS	15	6.43	5.26	4.75
926-AD10D1000CIUTNPB	ADC10D1000CIUTNPB	TEBGA-292	10	2	Interpolating	0.65	0.25	2 GSPS	2770	2000.00	-	-
926-C104S021CIMM/NOPB	ADC104S021CIMM/NOPB	MiniSOIC-10	10	4	SAR	0.13	0.13	200 KSPS	6.9	4.14	3.38	3.03
926-ADC10064CIWM/NOPB	ADC10064CIWM/NOPB	SOIC-28	10	4	Pipelined	1	1	800 KSPS	235	7.94	7.84	7.07
926-C108S022CIMT/NOPB	ADC108S022CIMT/NOPB	TSSOP-16	10	8	SAR	0.1	0.1	200 KSPS	6.4	4.79	3.84	3.50
926-A108S022CIMTXNPB	ADC108S022CIMTXNPB	TSSOP-16	10	8	SAR	0.3	0.3	200 KSPS	6.4	3.84	3.07	2.07
926-ADCS7476AIMFXNPB	ADCS7476AIMFXNPB	SOT-23	12	1	SAR	1	0.5	1000 KSPS	2	3.12	2.50	1.69
926-AD121S101CISDNPB	ADC121S101CISDNPB	LLP-6	12	1	SAR	1	1	1000 KSPS	2	4.56	3.72	3.34
926-C121S021CIMFNOPB	ADC121S021CIMFNOPB	SOT-23-6	12	1	SAR	+0.45; -0.4	+0.45; -0.25	200 KSPS	7.9	3.30	2.69	2.42
926-C121S101CIMFNOPB	ADC121S101CIMFNOPB	SOT-23-6	12	1	SAR	0.4	+0.5; -0.3	1000 KSPS	10	4.56	3.72	3.34
926-ADCS7476AIMFNOPB	ADCS7476AIMFNOPB	SOT-23-6	12	1	SAR	0.4	---	1000 KSPS	10	4.17	3.40	3.05
926-C124S021CIMM/NOPB	ADC124S021CIMM/NOPB	MiniSOIC-10	12	4	SAR	0.35	+0.4; -0.2	200 KSPS	7.9	5.13	4.18	3.76
926-LM12H458CIV/NOPB	LM12H458CIV/NOPB	PLCC-44	12	4	Parallel	---	---	182 KSPS	875	27.40	23.29	21.57
926-ADC12048CIVFNOPB	ADC12048CIVFNOPB	PQFP-44	12	8	---	---	---	278 KSPS	34	12.50	11.24	9.25
926-ADC12138CIMSANOPB	ADC12138CIMSANOPB	SSOP-28	12	8	SAR	2	---	114 KSPS	33	7.87	6.45	5.82
926-C128S022CIMT/NOPB	ADC128S022CIMT/NOPB	TSSOP-16	12	8	SAR	0.4	+0.5; -0.3	200 KSPS	7.5	5.99	4.81	4.38
926-C128S102CIMT/NOPB	ADC128S102CIMT/NOPB	TSSOP-16	12	8	SAR	0.5	+0.7; -0.4	1000 KSPS	10.7	6.53	5.35	4.82
926-ADC78H90CIMT/NOPB	ADC78H90CIMT/NOPB	TSSOP-16	12	8	SAR	1	1	500 KSPS	8.3	6.78	5.44	4.96
926-A128S022CIMTXNPB	ADC128S022CIMTXNPB	TSSOP-16	12	8	SAR	1	1	200 KSPS	1.2	4.81	3.85	2.60
926-LM12458CIV/NOPB	LM12458CIV/NOPB	PLCC-44	12	8	---	---	---	114 KSPS	30	24.40	20.74	19.21
926-C161S626CIMM/NOPB	ADC161S626CIMM/NOPB	MiniSOIC-10	16	1	SAR	1	+2; -1	250 KSPS	10.7	12.59	10.45	9.50
926-AD16V130CISQENPB	ADC16V130CISQENPB	LLP-64	16	1	Pipelined	1.5	0.45	130000	650	108.24	95.12	90.20

## ANALOG-TO-DIGITAL CONVERTERS (ADCS) TOOLS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	National Products Part No.	Description	Price Each
926-DC083000CIYBNOPB	ADC083000CIYBNOPB	ADC08 Single, low power, high performance with integrated 4K Byte FIFO	847.60
926-C08D1500CIYBNOPB	ADC08D1500CIYBNOPB	ADC08 Dual, low power, high performance for a single 1.5 Gbps version	621.00

## DIGITAL-TO-ANALOG CONVERTERS (DACs)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	National Products Part No.	Package Style	Res.	DAC Chan.	Architecture	INL (Max.) (±LSB)	DNL (Max.) (±LSB)	Settling Time	Sample/Update Rate (MSPS)	Power Consumption (Typ.) (mW)	Price Each		
											1	25	100
926-DAC0800LCM/NOPB	DAC0800LCM/NOPB	SOIC-16	8	1	---	---	---	100	---	33	1.61	1.28	1.12
926-DAC081S101CIMKNO	DAC081S101CIMKNO	TSOT-6	8	1	String	0.2	0.04	3000	---	1.41	1.83	1.41	1.28
926-DAC0830LCN/NOPB	DAC0830LCN/NOPB	DIP-20	8	1	R-2R	0.05	0.1	1000	---	20	7.03	5.76	5.19
926-LM24S085CIMMNO	DAC082S085CIMMNO	MiniSOIC-10	8	2	String	0.14	+0.04; -0.02	4500	---	1.6	2.87	2.21	2.01
926-DAC084S085CIMMNO	DAC084S085CIMMNO	MiniSOIC-10	8	4	String	0.5	+0.18; -0.13	8500	---	2.5	3.09	2.52	2.26
926-DA102S085CIMMNPB	DAC102S085CIMMNPB	MSOP-10	10	2	3-Wire Serial	2	0.35; -0.25	6000	---	0.6	4.11	3.35	3.01
926-DAC121S101CIMKNO	DAC121S101CIMKNO	TSOT-6	12	1	String	2.6	+2.5; -0.1	8000	---	1.43	3.27	2.67	2.39
926-DAC122S085CIMMNO	DAC122S085CIMMNO	MiniSOIC-10	12	2	String	2.4	+2.0; -0.15	8500	---	1.6	5.28	4.31	3.87
926-DAC124S085CIMMNO	DAC124S085CIMMNO	MiniSOIC-10	12	4	String	8	+0.7; -0.5	8500	---	2.4	7.82	6.49	5.90
926-DAC128S085CIMTNO	DAC128S085CIMTNO	TSSOP-16	12	8	String	8	+0.75; -0.4	8000	---	4.85	12.12	10.19	9.36
926-DA161S055CISQNPB	DAC161S055CISQNPB	LLP-16	16	1	4-Wire Serial	3	1.1	5000	---	5.5	9.41	7.81	7.10
926-DA161P997CISQNPB	DAC161P997CISQNPB	LLP-16	16	1	Single-Wire Serial	3.3	0.2	---	---	---	9.88	8.14	7.38

## FREQUENCY-TO-VOLTAGE CONVERTERS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	National Products Part No.	Package Style	Supply Voltage (V)	Supply Current (mA)	Input Voltage Range		Offset Voltage (Max.) (mV)		Linearity (Typ.) (%)	Operating Temperature (°C)	Price Each		
					Tach.	Op Amp/Comp.	Tach.	Op Amp/Comp.			1	25	100
					926-LM2907M-8/NOPB	LM2907M-8/NOPB	SOIC-8	28			25	±28	0.0V to +28V
926-LM2907N/NOPB	LM2907N/NOPB	DIP-14	28	25	0.0V to +28V	0.0V to +28V	10	10	±0.3	-40 to 85	2.02	1.62	1.46
926-LM2907N-8/NOPB	LM2907N-8/NOPB	DIP-8	28	25	±28	0.0V to +28V	15	10	±0.3	-40 to 85	1.86	1.50	1.35
926-LM2917M/NOPB	LM2917M/NOPB	SOIC-14	28	25	0.0V to +28V	0.0V to +28V	10	10	±0.3	-40 to 85	2.02	1.62	1.46
926-LM2917N/NOPB	LM2917N/NOPB	DIP-14	28	25	0.0V to +28V	0.0V to +28V	10	10	±0.3	-40 to 85	2.11	1.70	1.53
926-LM2917N-8/NOPB	LM2917N-8/NOPB	DIP-8	28	25	±28	0.0V to +28V	15	10	±0.3	-40 to 85	2.11	1.70	1.53

## VOLTAGE-TO-FREQUENCY CONVERTERS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	National Products Part No.	Package Style	Supply Voltage (V)	VFC Non-Lin (Max.) (%)	Conversion Accuracy Scale Factor (kHz/V)			Temp. Stability of Gain (ppm/°C)		Offset Voltage (Max.) (mV)	Input Bias Current (Max.) (nA)	Output Current (Max.) (µA)	Operating Temp. (°C)	Price Each		
					Min.	Typ.	Max.	Typ.	Max.					1	25	100
					926-LM231N/NOPB	LM231N/NOPB	DIP-8	4/40	0.01					0.95	1.00	1.05
926-LM331AN/NOPB	LM331AN/NOPB	DIP-8	4/40	0.01	0.90	1.00	1.10	±20	±50	10	500	156	0 to 70	8.93	7.31	6.60
926-LM331N/NOPB	LM331N/NOPB	DIP-8	4/40	0.01	0.90	1.00	1.10	±20	±50	14	1000	156	0 to 70	2.80	2.25	2.05

## ANALOG SYSTEM MONITOR AND CONTROLLER

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	National Products Part No.	Package Style	ADC Res.	DAC Res.	Architecture	INL (Max.) (±LSB)	DNL (Max.) (±LSB)	Sensor Accuracy (°C)	Power Consumption (Typ.) (mW)	Price Each		
										1	25	100
926-LMP92018SQ/NOPB	LMP92018SQ/NOPB	LLP-36	1/10	4/10	SPI	1	1	2.5	21	8.28	7.02	6.48