

# CIRRUS LOGIC Analog ICs

RoHS Compliant This product is RoHS compliant.



For quantities greater than listed, call for quote.

Analog ICs

Cirrus Logic

## INDUSTRIAL A/D CONVERTERS (ADCs)

MOUSER STOCK NO.	Cirrus Logic Part No.	Package Type	Resolution (bits)	Throughput (kSPS)	Integral Linearity	Differential Linearity (±LSB)	Number of Channels	Architecture	Power Consumption	Price Each		
										1	25	100
<b>Standard</b>												
777-CS5509-ASZ	CS5509-ASZ	SOIC-16	16	20-200	0.0015%	0.25	1	Delta-Sigma	1.7mW	11.66	11.01	10.57
777-CS5510-ASZ	CS5510-ASZ	SOIC-8	16	53-212	0.0015%	NMC	1	Delta-Sigma	1.4mW	3.65	3.44	3.31
777-CS5511-ASZ	CS5511-ASZ	SOIC-8	16	100	0.0015%	NMC	1	Delta-Sigma	1.5mW	3.65	3.44	3.31
777-CS5529-ASZ	CS5529-ASZ	SSOP-20	16	1-303	0.0015%	NMC	1	Delta-Sigma	2.6mW	4.82	4.56	4.37
777-CS5505-ASZ	CS5505-ASZ	SOIC-24	16	20-200	0.000007%	NMC	4	Delta-Sigma	3.2mW	24.25	22.90	21.98
777-CS5506-BSZ	CS5506-BSZ	SOIC-24	20	20-100	0.000007%	NMC	4	Delta-Sigma	3.2mW	23.32	22.03	21.15
777-CS5512-BSZ	CS5512-BSZ	SOIC-8	20	53-326	0.000007%	NMC	1	Delta-Sigma	1.8mW	4.49	4.24	4.07
<b>With Integrated Amplifiers</b>												
777-CS5523-ASZ	CS5523-ASZ	SSOP-24	16	1-400	0.0015%	NMC	4	Delta-Sigma	6mW	4.41	4.17	4.00
777-CS5525-ASZ	CS5525-ASZ	SSOP-20	16	3-606	0.0015%	NMC	1	Delta-Sigma	9.4mW	4.68	4.42	4.24
777-CS5531-ASZ	CS5531-ASZ	SSOP-20	16	7-3840	0.0015%	NMC	2	Delta-Sigma	35mW	7.03	6.64	6.37
777-CS5533-ASZ	CS5533-ASZ	SSOP-24	16	7-3840	0.0015%	NMC	4	Delta-Sigma	35mW	7.25	6.85	6.57
777-CS5526-BSZ	CS5526-BSZ	SSOP-20	20	3-606	0.000007%	NMC	1	Delta-Sigma	9.4mW	5.59	5.28	5.07
777-CS5522-ASZ	CS5522-ASZ	SSOP-20	24	1-606	0.000007%	NMC	2	Delta-Sigma	9mW	5.85	5.53	5.31
777-CS5524-ASZ	CS5524-ASZ	SSOP24	24	1-606	0.000007%	NMC	4	Delta-Sigma	9mW	6.10	5.76	5.53
777-CS5528-ASZ	CS5528-ASZ	SSOP-24	24	1-606	0.000007%	NMC	8	Delta-Sigma	9mW	6.38	6.03	5.79
777-CS5530-ISZ	CS5530-ISZ	SSOP-20	24	7-3840	0.0015%	NMC	1	Delta-Sigma	35mW	3.90	3.68	3.53
777-CS5532-ASZ	CS5532-ASZ	SSOP-20	24	7-3840	0.0015%	NMC	2	Delta-Sigma	35mW	8.21	7.75	7.44
777-CS5532-BSZ	CS5532-BSZ	SSOP-20	24	7-3840	0.0015%	NMC	2	Delta-Sigma	35mW	9.88	9.33	8.96
777-CS5534-ASZ	CS5534-ASZ	SSOP-24	24	7-3840	0.0015%	NMC	4	Delta-Sigma	35mW	8.56	8.08	7.76
777-CS5534-BSZ	CS5534-BSZ	SSOP-24	24	7-3840	0.0015%	NMC	4	Delta-Sigma	35mW	11.32	10.69	10.27
777-CS5550-ISZ	CS5550-ISZ	SSOP-24	24	2440-4000	0.01%	NMC	2	Delta-Sigma	21mW	2.38	2.25	2.16
<b>High-Throughput</b>												
777-CS5581-ISZ	CS5581-ISZ	SSOP-24	16	200	±8ppm	0.1	1, Single Ended	Delta-Sigma	85mW	8.79	8.31	7.97
777-CS5560-ISZ	CS5560-ISZ	SSOP24	24	50	±5ppm	0.1	1, Differential	Delta-Sigma	90mW	10.69	10.10	9.69
777-CS5566-ISZ	CS5566-ISZ	SSOP-24	24	5	±5ppm	0.21	1, Differential	Delta-Sigma	20mW	8.21	7.75	7.44

## DIGITAL AUDIO TRANSCIEVER

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Cirrus Logic Part No.	Package Type	Transmitter	Receiver	Serial Digital I/O Ports	Digital Interface	Sample Rate (kHz)	Price Each		
								1	25	100
777-CS8427-CZZ	CS8427-CZZ	TSSOP-28	S/PDIF, IEC-60958	S/PDIF, IEC-60958	Flexible 3-Wire	3.3V or 5.0V	96	9.28	8.76	8.41

## CRYSTAL LAN® TRANSCIEVER AND INTERFACE

The CS8952 uses CMOS technology to deliver a high-performance, 100Base-X/10Base-T physical layer (PHY) line interface. It makes use of an adaptive equalizer optimized for noise and near-end crosstalk (NEXT) immunity to extend receiver operation to cable lengths exceeding 160 meters. In addition, the transmit circuitry has been designed to provide extremely low transmit jitter (<400 ps) for improved link partner performance. Transmit driver common mode noise has been minimized to reduce EMI (electromagnetic interference) for simplified FCC certification.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Cirrus Logic Part No.	Package Type	Media Supported	Digital Interference	Number Of Channels	Max Current Codnsumption	Power Supply (V)	Operating Temp. (°C)	Price Each		
									1	25	100
777-CS8952-CQZ	CS8952-CQZ	TQFP-100	10Base-T, 100Base-X and NRZ	MII	1	+/- 10mA	5V	-55 to +125	12.41	11.72	11.25

## CLASS D AUDIO AMPLIFIERS

Cirrus Logic's innovative products for Class-D amplifier applications help drive new market opportunities for digital amplifier products where analog-quality performance, reduced size, and improved energy efficiency are a premium.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Cirrus Logic Part No.	Package Type	Amplifier Channels	Dynamic Range	THD + N (dB)	Power (W)	Description	Power Supply (V)	Price Each			
									1	25	100	
<b>Controllers</b>												
777-CS44600-CQZ	CS44600-CQZ	LQFP-64	6	100	< 0.05	24	6-Channel digital amplifier controller	2.5	10.21	9.07	7.18	
<b>Integrated</b>												
777-CS4525-CNZ	CS4525-CNZ	QFN-48	Configurable	102	0.1	15 (x2)	With ADC, SRC and Signal Processor	8 to 18	5.68	5.36	5.15	

## VOLUME CONTROLLERS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Cirrus Logic Part No.	Package Type	Channels	Dynamic Range (dB)	TDH+N %	Analog I/O	Description	Power Supply (V)	Price Each		
									1	25	100
777-CS3310-KSZ	CS3310-KSZ	SOIC-16	2	116	-100	Single-ended	+31.5dB gain/-95.5dB atten, 0.5dB step	±5	7.26	6.86	6.59
777-CS3308-CQZ	CS3308-CQZ	LQFP-48	8	123	-110	Single-ended	+22dB gain/-96dB atten, 0.25dB step	±5	14.63	13.82	13.27
777-CS3318-CQZ	CS3318-CQZ	LQFP-48	8	127	-110	Single-ended	+22dB gain/-96dB atten, 0.25dB step	±8 to ±9	18.87	17.82	17.11

## INDUSTRIAL OPERATIONAL AMPLIFIERS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Cirrus Logic Part No.	Package Type	Supply Voltage (V)	Supply Current (mA)	V <sub>OS</sub> (µV)	V <sub>OS</sub> Drift (µV/°C)	e <sub>NOISE</sub> (nV/√Hz)	AoL min (dB)	Price Each			
									1	25	100	
<b>Single</b>												
777-CS3003-FSZ	CS3003-FSZ	SOIC-8	2.7 to 5.25	1	10	0.05	17	150	1.49	1.40	1.35	
777-CS3013-FSZ	CS3013-FSZ	SOIC-8	2.7 to 5.25	0.5	20	0.05	22	135	1.49	1.40	1.35	
<b>Dual</b>												
777-CS3002-ISZ	CS3002-ISZ	SOIC-8	2.7 to 6.7	3.6	10	0.05	6	200	2.68	2.53	2.43	
777-CS3004-FSZ	CS3004-FSZ	SOIC-8	2.7 to 5.25	2	10	0.05	17	150	2.28	2.15	2.07	
777-CS3012-ISZ	CS3012-ISZ	SOIC-8	2.7 to 6.7	1.7	10	0.05	12	200	2.68	2.53	2.43	
777-CS3014-FSZ	CS3014-FSZ	SOIC-8	2.7 to 5.25	1	20	0.05	22	135	2.28	2.15	2.07	

## ENERGY MEASUREMENT



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Cirrus Logic Part No.	Package Type	Channels	Instantaneous I & V	Energy Pulse Outputs	SPI Interface	Real (Active) Power	I <sub>RMS</sub> V <sub>RMS</sub>	Apparent Power (S)	Reactive Power (Q)	Temp Sensor	Price Each		
												1	25	100
777-CS5451A-ISZ	CS5451A-ISZ	SSOP-28	6	Yes	No	Yes	No	No	No	No	No	4.69	4.43	4.25
777-CS5460A-BSZ	CS5460A-BSZ	SSOP-24	2	Yes	Yes	Yes	Yes	No	No	No	No	2.50	2.36	2.27
777-CS5461A-ISZ	CS5461A-ISZ	SSOP-24	2	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	2.34	2.21	2.12
777-CS5463-ISZ	CS5463-ISZ	SSOP-24	2	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	1.97	1.86	1.79
777-CS5464-ISZ	CS5464-ISZ	SSOP-28	3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	2.26	2.14	2.05
777-CS5466-ISZ	CS5466-ISZ	SSOP-24	2	No	Yes	No	Yes	No	No	No	No	2.25	2.13	2.04
777-CS5467-ISZ	CS5467-ISZ	SSOP-28	4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	3.01	2.85	2.73
777-CS5480-INZ	CS5480-INZ	QFN-24	3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	4.11	3.30	3.00
777-CS5484-INZ	CS5484-INZ	QFN-28	4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	4.59	3.69	3.36
777-CS5490-ISZ	CS5490-ISZ	SOIC-16	2	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	3.72	2.99	2.72

