

	<u>TLV320AIC31</u>	<u>TLV320AIC34</u>	<u>TLV320AIC3100</u>	<u>TLV320AIC3101</u>	<u>TLV320AIC3104</u>	<u>TLV320AIC3105</u>	<u>TLV320AIC3106</u>
ADC	Stereo	Multi-channel	Mono	Stereo	Stereo	Stereo	Stereo
DAC	Stereo	Multi-channel	Stereo	Stereo	Stereo	Stereo	Stereo
ADC Channels	4	4	1	2	2	2	2
DAC Channels	2	4	2	2	2	2	2
Analog Inputs	6 inputs	12 inputs	3 inputs	6 inputs	6 Inputs	6 inputs	10 inputs
Analog Outputs	6 outputs	14 outputs	3 outputs	6 outputs	6 outputs	6 inputs	7 outputs
miniDSP	No	No	No	No	No	No	No
ADC SNR	92dB	92dB	91dB	92dB	92dB	92dB	92dB
DAC SNR	100dB	102dB	95dB	102dB	102dB	102dB	102dB
Control I/F	I2C	I2C	I2C	I2C	I2C	I2C	I2C/SPI
Audio I/F	I2S/LJF/RJF/DSP/TDM	I2S/LJF/RJF/DSP	I2S/LJF/RJF/TDM/DSP	I2S/LJF/RJF/DSP/TDM	I2S/LJF/RFJ/DSP/TDM	I2S/LJF/RFJ/DSP/TDM	I2S/PSM
Class D Amplifier	N/A	N/A	Mono Class-D BTL Speaker Drive (2.5 W Into 4 Ω or 1.6 W Into 8 Ω)	N/A	N/A	N/A	N/A
AVDD	2.7V to 3.6V	2.7V to 3.6V	2.7V to 3.6V	2.7V to 3.6V	2.7V to 3.6V	2.7V to 3.6V	2.7V to 3.6V
DV_{dd}	1.65V to 1.95V	1.65V to 1.95V	1.65V to 1.95V	1.525V to 1.95V	1.525V to 1.95V	1.525V to 1.95V	1.65V to 1.95V
IOV_{dd}	1.1V to 3.6V	1.1V to 3.6V	1.1V to 3.6V	1.1V to 3.6V	1.1 to 3.6V	1.1V to 3.6V	1.1V to 3.6V
SPKVDD	N/A	N/A	2.7V to 5.5V	N/A	N/A	N/A	N/A
Sample Rates	8kHz to 96kHz	8kHz to 96kHz	8kHz to 192kHz	8kHz to 96kHz	8kHz to 96kHz	8kHz to 96kHz	8kHz to 96kHz
Package	32-pins 5x5 VQFN	87-pin 6x6 NFBGA	32-pin 5x5 VQFN	32-pins 5x5 VQFN	32-pins 5x5 VQFN	32-pin 5x5 VQFN	48-pins 7x7 VQFN; 80 pin 5x5 VFBGA
Applications	Smartphones, PDAs, and portable computing, communication, and entertainment applications	Digital Cameras, Smart Cellular Phones	Portable Audio Devices, Mobile Internet Devices, Adaptive Filtering Applications	Digital Cameras, Smart Cellular Phones	Headsets, IP Network Cameras, IP telephones, Wireless Speakers	Digital Cameras, Smart Cellular Phones	Digital Cameras, Smart Cellular Phones
Driver Link	TLV320AIC3XSW-LINUX			TLV320AIC31XX-DRIVERS	TLV320AIC31XX-DRIVERS	TLV320AIC31XX-DRIVERS	TLV320AIC31XX-DRIVERS
Family Parent	TLV320AIC31	TLV320AIC34	TLV320AIC3120	TLV320AIC3101	TLV320AIC3104	TLV320AIC3105	TLV320AIC3106

<u>TLV320AIC3107</u>	<u>TLV320AIC3110</u>	<u>TLV320AIC3111</u>	<u>TLV320AIC3120</u>	<u>TLV320AIC3204</u>	<u>TLV320AIC3206</u>	<u>TLV320AIC3254</u>
Stereo	Mono	Mono	Mono	Stereo	Stereo	Stereo
Stereo	Stereo	Stereo	Mono	Stereo	Stereo	Stereo
2	1	1	1	2	2	2
2	2	2	1	2	2	2
7 inputs	3 inputs	3 inputs	3 inputs	6 inputs	6 inputs	6 inputs
6 outputs	4 outputs	4 outputs	2 outputs	6 outputs	4 outputs	6 outputs
No	No	Yes	Yes	No	No	Yes
92dB	91dB	91dB	90dB	93dB	93dB	93dB
97dB	95dB	95dB	95dB	100dB	100dB	100dB
I2C	I2C	I2C	I2C	I2C/SPI	I2C/SPI	I2C/SPI
I2S/LJF/RJF/DSP/TDM	I2S/LJF/RJF/DSP/TDM	I2S/LJF/RJF/DSP/TDM	I2S/LJF/RJF/DSP/TDM	I2S/LJF/RJF/DSP/TDM	I2S/LJF/RJF/TDM/DSP	I2S/LJF/RJF/DSP/TDM
Mono 1W Class D BTL 8 ohm Speaker Driver	Stereo 1.29W Class D BTL 8 ohm Speaker Driver	Stereo 1.29W Class D BTL 8 ohm Speaker Driver	Mono Class D BTL Speaker Driver (2.5W into 4 ohm or 1.6W into 8 ohm)	N/A	N/A	N/A
2.7V to 3.6V	2.7V to 3.6V	2.7V to 3.6V	2.7V to 3.6V	1.5V to 1.95V	1.5V to 1.95V	1.5V to 1.95V
1.525V to 1.95V	1.65V to 1.95V	1.65V to 1.95V	1.65V to 1.95V	1.26V to 1.95V	1.26V to 1.95V	1.26V to 1.95V
1.1V to 3.6V	1.1V to 3.6V	1.1V to 3.6V	1.1V to 3.6V	1.1V to 3.6V	1.1V to 3.6V	1.1V to 3.6V
2.7V to 5.5V	2.7V to 5.5V	2.7V to 5.5V	2.7V to 5.5V	N/A	N/A	N/A
8kHz to 96kHz	8kHz to 192kHz	8kHz to 192kHz	8kHz to 192kHz	8kHz to 192kHz	8kHz to 192kHz	8kHz to 192kHz
42-pin 3.25x3.75 DSBGA; 40-pin 5x5 WQFN	32-pin 5x5 QFN	32-pin 5x5 QFN	32-pin 5x5 VQFN	32-Pin 5x5 VQFN	42-pin 3.25x3.75 DSBGA; 40-pin 5x5 WQFN	32-pin 5x5 VQFN
Cellular Handsets, Digital Cameras, Portable Media Players, General Portable Audio Equipment	Portable Audio Devices, Mobile Internet Devices, Adaptive Filtering Applications	Portable Audio Devices, Mobile Internet Devices, Adaptive Filtering Applications	Portable Audio Devices, Mobile Interent Devices, eBooks, Adaptive Filtering Applications	Portable Navigation Devices, Portable Media Player, Mobile Handsets, Communication, Portable Computing	Portable Navigation Devices, Portable Media Player, Mobile Handsets, Communication, Portable Computing	Portable Navigation Devices, Portable Media Player, Mobile Handsets, Communication, Portable Computing, Advanced DSP algorithms
TLV320AIC31XX-DRIVERS	TLV320AIC31XX-DRIVERS	TLV320AIC31XX-DRIVERS	TLV320AIC31XX-DRIVERS	TLV320AIC32X4SW-LINUX	TLV320AIC32X6-DRIVERS	TLV320AIC325X-DRIVERS
TLV320AIC3107	TSC2117	TSC2117	TLV320AIC3120	TLV320AIC3204	TLV320AIC3256	TLV320AIC3254

TLV320AIC3256	TLV320AIC3262	TLV320AIC3263	TLV320AIC3268
Stereo	Stereo	Stereo	Stereo
Stereo	Stereo	Stereo	Stereo
2	2	2	2
2	2	2	2
6 inputs	8 inputs	8 inputs	8 inputs
4 outputs	7 outputs	7 outputs	7 outputs
Yes	Yes	Yes	Yes
93dB	93dB	93dB	95dB
100dB	101dB	101dB	105dB
I2C/SPI	I2C/SPI	I2C/SPI	I2C/SPI
I2S/LIF/RJF/DSP/TDM	I2S/TDM/DSP/LIF/RJF/PCM	I2S/TDM/DSP/LIF/RJF/PCM	I2S/TDM/DSP/LIF/RJF/PCM
N/A	Stereo Class D Speaker Drivers 1.7 W (8 Ω , 5.5 V, 10% THDN) 1.4 W (8 Ω , 5.5 V, 1% THDN)	Class-D Speaker Driver 1.7 W (8Ω , 5.5V, 10% THDN) 1.4 W (8Ω , 5.5V, 1% THDN)	Class-D Speaker Driver 1.45 W (8Ω , 5V, 10% THDN) 1.15 W (8Ω , 5V, 1% THDN)
1.5V to 1.95V	AVDDx_18: 1.5V to 1.95V AVDDx_33: 1.65V to 3.6V	1.5V to 1.95V	1.5V to 1.95V
1.26V to 1.95V	1.26 to 1.95V	1.26 to 1.95V	1.26 to 1.95V
1.1V to 3.6V	1.1V to 3.6V	1.1V to 3.6V	1.1V to 3.6V
N/A	2.7V to 5.5V	2.7V to 5.5V	2.7V to 5.5V
8kHz to 192kHz	8kHz to 192kHz	8kHz to 192kHz	8kHz to 192kHz
42-pin 3.25x3.75 DSBGA; 40-pin 5x5 WQFN	81-pinI 4.81x4.81x0.625 DSBGA	81-pin 4.81x 4.81x 0.625 DSBGA	64-pin 9x9 VQFN
Portable Navigation Devices, Portable Media Player, Mobile Handsets, Communication, Portable Computing, Advanced DSP algorithms	Mobile Handsets, Tablets and eBooks, Portable Navigation Devices, Portable Media Player, Portable Gaming Systems, Portable Computing, Noise Suppression, Speaker Protection, Advanced DSP Algorithms	Mobile Handsets, Tablets and eBooks, Portable Navigation Devices, Portable Media Player, Portable Gaming Systems, Portable Computing, Noise Suppression, Speaker Protection, Advanced DSP Algorithms	Low Power Portable Audio Devices, Consumer Audio Devices, Infotainment Systems
TLV320AIC325X-DRIVERS	TLV320AIC326X-DRIVERS	TLV320AIC326X-DRIVERS	TLV320AIC326X-DRIVERS
TLV320AIC3256	TLV320AIC3262	TLV320AIC3263	TLV320AIC3268

	<u>PCM3002</u>	<u>PCM3008</u>	<u>PCM3060</u>	<u>PCM3070</u>	<u>PCM3168A</u>	<u>PCM3500</u>	<u>PCM5310</u>
ADC	Stereo	Stereo	Stereo	Stereo	Multi-Channel	Mono	Quad
DAC	Stereo	Stereo	Stereo	Stereo	Multi-Channel	Mono	Quad
ADC Channels	2	2	2	2	6	1	4
DAC Channels	2	2	2	2	8	1	4
Analog Inputs	1 input	1 input	1 input	3 inputs	6 inputs	1 input	6 inputs
Analog Outputs	1 output	1 output	2 outputs	2 outputs	8 outputs	1 output	3 outputs
miniDSP	No	No	No	Yes- 2	No	No	No
ADC SNR	90 dB	88dB	99dB	93dB	Differential: 107dB Single Ended: 104dB	89dB	95dB
DAC SNR	94 dB	92dB	105dB	100dB	112dB	92dB	100dB
Control I/F	SW	HW	I2C/SPI/HW	I2C/SPI	I2C/SPI	SW	I2C
Audio I/F	I2S/LJF/RJF	LJF/RJF	I2S/LJF/RJF	I2S/LJF/RJF/DSP/TDM	I2S/LJF/RJF/TDM/DSP	DSP/TDM	I2S/LJF/RJF
ADC THD+N	-86dB	-84dB	-93dB	-80dB	-93dB	-88dB	0.01%
DAC THD+N	-86dB	-88dB	-94dB	-85dB	-94dB	-90dB	0.01%
Class D Amplifier	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AVDD	2.7V to 3.6V	2.1V to 3.6V	4.5V to 5.5V	1.9V to 3.6V	4.5V to 5.5V	2.7V to 3.6V	3V to 3.6V
DV_{dd}	2.7V to 3.6V	N/A	2.7V to 3.6V	1.5V to 1.95V	3V to 3.6V	2.7V to 3.6V	3V to 3.6V
IOV_{dd}	N/A	N/A	N/A	1.5V to 3.6V	N/A	N/A	N/A
SPKVDD	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sample Rates	4kHz to 48kHz	8kHz to 48kHz	16kHz to 192kHz	8kHz to 192kHz	8kHz to 192kHz	7.2kHz to 26kHz	ADC: ≤96kHz DAC: ≤192kHz
Package	24-pin 8.2x7.8 SSOP	16-pin 5x4.4 TSSOP	28-pin 9.7x6.4 TSSOP	32-pin 5x5 QFN	64-pin 10x10 HTQFP	24-pin 8.2x7.8 SSOP	64-pin 10x10 HTQFP
Applications	DVC Applications, DSC Applications, Portable/Mobile Audio Applications	Digital Video Camera, Portable MD Player, Other Portable System	DVD-RW, Digital TV, Digital Set-Top Box, Audio-Visual Applications	Soundbar, Flat Panel Television, MP3 Docking stations, Cell Phone Docking Stations, Other Stereo or 2.1 Home Audio Systems	Car Audio External Amplifiers, Car Audio AVN Applications, Home Theaters, AV Receivers	Personal Digital Assistant, Notebook and Hand-held PCs, Set-Top Box, Digital Television, Embedded Systems, Portable Voice Recorder/Player, Speech Recognition/Synthesis, Teleconferencing products	Digital TV, DVD Recorder, IP-STB (Set Top Box)
Driver Link	None	PCM3008-DRIVERS	PCM3060-DRIVERS	TLV320AIC325X-DRIVERS	PCM3168-DRIVERS	None	None
Family Parent	PCM3002	PCM3008-A	PCM3060	TLV320AIC3254	PCM3168	PCM3500	PCM5310