



Audiophile ADCs									
	Resolution	Number of Channels	RAW Output	DNR per Channel	DNR in Mono Mode	THD+N	Package	Maximum sample rate	Comments
ES9822QPRO	32-Bit	2	yes	125dB	128dB	-117dB	40-QFN	768kHz	Pin/footprint compatible ES9820Q
ES9823QPRO	32-Bit	2	yes	128dB	133dB	-117dB	40-QFN	768kHz	built-in ASP2 to support PEQ, Mixer
ES9842QPRO	32-Bit	4	yes	122dB	128dB	-116dB	40-QFN	768kHz	Pin/footprint compatible ES9840Q
ES9843QPRO	32-Bit	4	yes	125dB	130dB	-116dB	40-QFN	768kHz	built-in ASP2 to support PEQ, Mixer
ES9820Q	32-Bit	2	no	116dB	119dB	-108dB	40-QFN	768kHz	
ES9821Q	32-Bit	2	no	120dB	122dB	-112dB	28-QFN	768kHz	S/W mode & H/W mode both
ES9840Q	32-Bit	4	no	116dB	121dB	-108dB	40-QFN	768kHz	
ES9841Q	32-Bit	4	no	120dB	123dB	-112dB	40-QFN	768kHz	S/W mode & H/W mode both
ES9826Q	32-Bit	2	no	115dB	123dB	-105dB	28-QFN	768kHz	PGA & MIC Bias, S/W & H/W mode
Audiophile DACs									
	Resolution	Number of Channels	DAC Output Resistance	DNR per Channel	DNR in Stereo Mode	THD+N	Package	Modulator	Comments
ES9039SPRO	32-Bit	8	195Ω	132dB	140dB	-122dB	64-TQFP	HyperStream IV	
ES9039MSPR	32-Bit	8	202Ω	132dB	138dB	-122dB	64-TQFP	HyperStream II	Pin-compatible ES9018S upgrade *
ES9028PRO	32-Bit	8	806Ω	129dB	133dB	-120dB	64-TQFP	HyperStream II	Pin-compatible ES9018S upgrade *
ES9026PRO / ES9027SPRO	32-Bit	8	806Ω	124dB / 124dB	127dB	-110dB / -114dB	48-TQFP	HyperStream II	Pin-compatible ES9016S upgrade *
ES9018S	32-Bit	8	834Ω	129dB	133dB	-120dB	64-LQFP	HyperStream	
ES9016S	32-Bit	8	834Ω	124dB	128dB	-110dB	48-LQFP	HyperStream	
ES9023P / ES9033Q	24-Bit	2	NA	112dB / 122dB	112dB / 122dB	-94dB / -108dB	16-SOP / 28-QFN	HyperStream	2Vrms output with line drivers
ES9008S	24-Bit	8	834Ω	128dB	132dB	-118dB	64-LQFP	HyperStream	
SABRE9006A	24-Bit	8	834Ω	120dB	NA	-102dB	48-LQFP	HyperStream	
ES9080/81Q	32-Bit	8	NA	120dB	124dB	-108dB	40-QFN	HyperStream II	2Vrms output with 8C line drivers,TDM
ES9017S	32-Bit	8	NA	120dB	124dB	-110dB	40-QFN	HyperStream II	2Vrms output,TDM
ES9082Q	32-Bit	8	NA	120dB	124dB	-108dB	48-QFP/QFN	HyperStream IV	with 8C line drivers,TDM with ASP2
Low-Power Audiophile DACs									
	Resolution	Number of Channels	DAC Output Resistance	DNR per Channel	DNR in Stereo Mode	THD+N	Package	Modulator	Comments
ES9039Q2M	32-Bit	2	390Ω	130dB	130dB	-120dB	32-QFN	HyperStream IV	
ES9069Q	32-Bit	2	390Ω	130dB	130dB	-120dB	32-QFN	HyperStream IV	With MQA Renderer
ES9038Q2M	32-Bit	2	774Ω	129dB	129dB	-120dB	30-QFN	HyperStream II	
ES9028Q2M	32-Bit	2	403Ω	129dB	129dB	-120dB	32-QFN	HyperStream	
ES9018K2M	32-Bit	2	806Ω	127dB	127dB	-120dB	28-QFN	HyperStream	
ES9016K2M	32-Bit	2	806Ω	122dB	122dB	-110dB	28-QFN	HyperStream	
ES9010K2M	32-Bit	2	806Ω	116dB	116dB	-106dB	28-QFN	HyperStream	
ES9020Q	32-Bit	2	806Ω	122dB	125dB	-110dB	28-QFN	HyperStream IV	
Low-Power SoCs (DAC & HPA)									
	Resolution	Number of Channels	Output Power into 32Ω	Max Out Voltage	DNR in Stereo Mode	THD+N	Package	Modulator	Comments
ES9218PQ	32-Bit	2	72mW	2 Vrms	121dB	-114dB	40-QFN / 41-CSP	HyperStream II	Integrated Output Switch
ES9219Q	32-Bit	2	50mW	3 Vrms	121dB	-114dB	42-CSP	HyperStream II	Integrated Output Switch
ES9118EQ /	32-Bit	2	31mW	1 Vrms	120dB	-112dB	40-QFN / 40-CSP	HyperStream	Integrated Output Switch
Headphone and Power Amplifiers									
	Supply Voltage	Number of Channels	Output into 32Ω	Ground-Ref Output	DNR per Channel	THD+N	Package		Comments
SABRE9601K	3.3V	2	30mW	Yes	122dB	-117dB	20-QFN		
SABRE9602Q	3.3V	2	49mW	Yes	122dB	-117dB	40-QFN		Integrated Output Switch
Audio CODEC solutions									
	Resolution	Channel	ADC	DAC	DNR per Ch	THD+N	Package	Modulator	Comments
ES9290	3.3V	2	Yes	Yes	116dB	-110dB	40-QFN	HyperStream IV	
ES9291	3.3V	2	Yes	Yes	121dB	-110dB	40-QFN	HyperStream IV	built-in ASP2 to support PEQ, Mixer
USB Codec solutions									
	Resolution	ASP	MQA	USB	DNR per Ch	THD+N	Package	Modulator	Comments
ES9281/80AQ PRO	32-Bit	Yes	Yes	2.0 High 2 ⁵ .0 ¹⁶ H ¹⁶ g ¹⁶ h	124dB	-112dB	90-CSP/QFN	HyperStream II	With PEQ and W/WO MQA Renderer
ES9260Q	32-Bit	No	No	1.1 Full Speed	117dB	-96dB	40-QFN	HyperStream II	
Voltage Regulator									
	Supply Voltage	Number of Channels	Output Voltage	Output Noise Voltage	Output Current per Channel	Overload Protected	Package		Comments
ES9311Q	3.5V to 5.5V	2	3.3V	< 1μVrms	150mA	Yes	30-QFN		No output capacitors required
ES9312Q	3.5V to 4.5V	2	3.3V	< 1μVrms	180mA	Yes	16-QFN		No output capacitors required
CRESCENDO Sound Bar Products									
	Input Channels	Digital Outputs	Integrated DACs	Embedded DRAM	USB Support	Co-DSP / SRAM	Package	Modulator	Comments
ES8680H (C7)	5.1	8	-	-	2	Tri 144K	128-TPQFP	NA	Dolby and/or DTS licenses required
ES8680D	5.1	8	6	-	1.1	Dual 128K	128-eLQFP	HyperStream	Dolby and/or DTS licenses required
ES8680F	5.1	8	6	8MB	2 x 1.1	Dual 96K	128-eLQFP	HyperStream	Dolby and/or DTS licenses required
ES8620Q / S	5.1	8	6	2MB	2.0	Dual 96K	128-QFN/128-LQFP	HyperStream	Audio DSPs

* The PRO Series DACs have an Active-LOW reset pin which is the opposite polarity to the reset on the ES9018S and ES9016S