

## SOUND CARD COMPARISON CHART, 1 of 2

	<b>AUZEN X-PLOSSION 7.1</b>	<b>AUZEN X-MERIDIAN 7.1</b>	<b>Sound Blaster® Audigy® 4</b>	<b>Sound Blaster® Audigy® 2 ZS</b>
Audio Processor	CMI8770	CMI8788	X-Fi™(20K1)	X-Fi™(20K1)
Signal to Noise Ratio (SNR)	100dB	115dB	106dB	108dB
64bit OS support	Yes	Yes	Yes	Yes
64 RAM	/	/	Yes	Yes
EAX® / DirectSound 3D	Yes / EAX 2.0	Yes / EAX 2.0	Yes / 4.0	Yes / EAX 4.0
Max. No. of 3D Voices	64	128	64	64
Max. Audio resolution Playback & Quality	24-bit/96kHz in Stereo 24-bit/96kHz in 7.1	24-bit/192kHz in Stereo 24-bit/192kHz in 7.1	24-bit/192kHz in Stereo, 24-bit/96kHz in 7.1	24-bit/192kHz in Stereo, 24-bit/96kHz in 7.1
Max. Recording/ Sampling Rate	24-bit/96kHz	24-bit/192kHz	24-bit/96kHz	24-bit/192kHz
DAC(s)	embedded 24-bit/96kHz	24-bit/192kHz AK4396VF (120dB-part spec.) X 4pcs	24-bit/192kHz	24-bit/192kHz
ADC	embedded 16-bit/48kHz	24-bit/192kHz AK5385BVF (114dB-part spec.) X 1pc	24-bit/96kHz	24-bit/96kHz
OPAMP (Preout circuit for DAC output)	Dual DIP type / Swappable design for DIY, final sound quality managed by OPAMP	4 pcs / Dual DIP type / Swappable design for DIY, final sound quality and color managed by OPAMP	SMD type	SMD type
Relay Switching Noise Free	User tuning available for high quality sound	Digitally-controlled analog switch for relay switching noise removal User tuning available for high quality sound	NA	NA
OPAMP (preinput circuit for ADC input)	DIP type	2 pcs / SMD type	SMD type	SMD type
OPAMP (preinput circuit for MIC gain control)	/	1 pc / SMD type	/	/
Max Output level	2.5 Vrms / Powerful sound	5 Vrms / Powerful sound	unknown	2.0Vrms
Stable Power Supply	/	1A 3.3V / 1A 5V / 1A 8V / 1A -8V Voltage Regulator	/	/
Headphone buffer / Headphone amplifier IC	32ohm earphone/headphone buffer embedded	TI's TPA6111A2 for FP_AUDIO powerfull headphone out	NA	NA
Max. Channels in 3D Positional Audio	7.1	7.1	7.1	7.1
CMSS3D	/	/	Yes	Yes
Dolby Digital Live real-time encoding	Yes	Yes	NA	NA

Dolby Pro Logic IIx	NA	Yes / Music mode, Cinema mode, Panorama, Center Width, Dimension	NA	NA
Dolby Headphone	NA	Yes / DH1, DH2, DH3 mode	NA	NA
Dolby Virtual Speaker	NA	Yes / reference room, wide mode	NA	NA
DTS Interactive Decoder	NA	NA	Yes	Yes
DolbyDigital 5.1 Decoder	NA	NA	Yes	Yes
Dolby Digital 5.1 Playback	Yes / with APPLICATION CODEC	Yes / with APPLICATION CODEC	Yes	Yes
DTS Interactive real-time encoding (component of DTS CONNECT)	Yes / The world's first DTS Interactive certification PCI soundcard	Yes	NA	NA
DTS NEO:PC up-mix (component of DTS CONNECT)	Yes / The world's first DTS NEO:PC certification PCI soundcard	Yes / Music mode, Cinema mode	NA	NA
Dolby True HD Playback/ DTS HD Playback	NA	Will be available/ with HDMI1.3 extension board	NA	NA
Karaoke	Yes / Mic echo, Key Shifting, Vocal cancellation	Yes / Mic echo, Key Shifting, Vocal cancellation	Yes	Yes
Magic Voice	Yes	Yes	NA	NA
Graphic Equalizer	Yes / 10 band	Yes / 10 band	Yes	Yes
Virtual Surround over 2 Channel or Headphones	Yes / Virtual Speaker Shifter	Yes / Virtual Speaker Shifter	Yes	Yes
DTS CD / DTS-WAV playback	/	Yes / Bit match(perfect) playback available	/	/
Bass Management	Simple bass redirection	Large, Small Speaker setting available for all channel speaker / Configurable LFE channel crossover frequency in Small speaker mode (from 50Hz to 250Hz)	Bass redirection / LFE crossover frequency settable	Bass redirection / LFE crossover frequency settable
Onboard TOSLINK Optical output	Yes	Yes by COAX+OPTIC Combo Output connector with 3.5mm minijack-toslink adapter	NA	NA
Onboard TOSLINK Optical input	NA	Yes by COAX+OPTIC Combo Output connector with 3.5mm minijack-toslink adapter / External "PCM" SPDIF input to realtime encoding (DDL and DTS Interactive) support	NA	NA
TOSLINK Fiber Optic cable	2 Meter high quality cable included	3Meter high quality cable included	NA	NA

Onboard RCA Coaxial Output	Yes	Yes by COAX+OPTIC Combo Output connector	Yes / Not RCA, 3.5mm mini jack - non standard	Yes / Not RCA, 3.5mm mini jack - non standard
Onboard RCA Coaxial Input	NA	Yes by COAX+OPTIC Combo Output connector / External PCM SPDIF input to realtime encoding (DDL and DTS Interactive) support	NA	Yes
MIDI Port	Yes	NA	NA	Yes
CD IN, AUX IN	/	Yes	/	/
Front Panel Audio	NA	Yes / Standard 10PIN FP_AUDIO connector onboard for most pc chasis - All 7.1channel analog output muted by jack connection sense of front panel headphone out - Dual MIC input available by back panel mic input and front panel mic input	Yes / for DELL	Yes / for DELL
Upgrade Extension Board (Digital I/O Part)	/	Yes * Control Panel [SPDIF IN] Menu ONBOARD EXTENTION 1. Optcial IN (Up to 24-bit/192khz support) 2. Coaxial IN (Gold plated RCA jack) 3. Optical OUT (Up to 24-bit/192khz support) 4. Digital DIN for 8CH PCM - all channel up to 24bit/192kHz support - Gold Plated MINI DIN jack - AKM AK4101A DIT - Compatibe for Creative Lab's Digital DIN 6CH PCM SPDIF Input connection	Yes	Yes
Upgrade Extension Board (Extra 6.35mm MIC Input Part)	/	Yes / 6.35mm TRS jack - 6.35mm plug dynamic mic with battery power support / 4pin-4pin shield wire connection required between onboard 4pin ext mic connector and extension board 4pin ext mic connetor / Triple MIC input available - back panel, front panel, extra 6.35mm TRS jack input	3.5mm mini jack	Yes/ 40pin or 3rd party Digital I/O available