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## Audio Performance

### Signal-to-Noise Ratio with AES17 filter (A-Weighted)

	2V Rated Output	1V Rated Output
Stereo Output	108dB	102dB
Front and Rear Channels	108dB	102dB
Center, Subwoofer, and Rear Center	108dB	102dB

Total Harmonic Distortion + Noise at 1kHz (A-Weighted) = 0.004 % (1V, 2V Rated Output)

Frequency Response at -3 dBr = <10 Hz to 22 kHz (1V, 2V Rated Output)

## Technical Specifications

### High Definition Audio Quality for Playback and Recording

- 24-bit Digital-to-Analog conversion during playback with sampling rates of 8, 11.025, 16, 22.05, 24, 32, 44.1, 48 and 96kHz in 7.1 mode and up to 192kHz in stereo mode
- 24-bit Analog-to-Digital conversion during recording in 8, 16 or 24-bit at sampling rates of 8, 11.025, 16, 22.05, 24, 32, 44.1, 48 and 96kHz
- SPDIF (Sony/Philips Digital Interface) input at up to 24-bit/96kHz quality
- SPDIF output up to 24-bit resolution at 48 or 96kHz
- ASIO 2.0 drivers for low latency (as low as 2ms) multi-track playback and recording at 16bit/48kHz\*

\*(Latency performance may vary based on system configuration)

### Wave-Table Synthesis and Midi Features

- Creative Hardware synthesizer (2x16 channels) with 64-voice polyphony featuring E-MU®'s patented 8-point interpolation technology for accurate sample reproduction
- Creative Software synthesizer - multi timbral wave-table (16 channels)
- 2 MIDI I/O ports (2x16 channels) (gameport adapter required for MIDI I/O 2)

### FireWire® (IEEE® 1394) Connectivity

- FireWire® (IEEE® 1394) / i-Link® compatible interface with up to 400Mbps transfer rate

### **Sound Blaster Audigy 2 ZS On-Board Connectors**

- Line level out (Front / Side / Rear / Center / Subwoofer)
- Digital Out for 5.1 support (6-channel SPDIF output to Creative digital speakers)
- Line in
- Microphone in
- FireWire® (IEEE® 1394)
- Telephone Answering Device in
- Analog / Digital CD Audio in
- 15-pin MIDI / Joystick port extension header
- Internal IEEE® 1394 header to Audigy 2 ZS Internal I/O Drive
- AD\_EXT extension header to Audigy 2 ZS Internal I/O Drive

### **Audigy 2 ZS Internal I/O Drive Front Panel Connectors**

- Headphone Out (1/4" Stereo Jack)
- Line In 1 (1/4" Stereo Jack , shared with Microphone In with Gain Control)
- Two RCA jacks for Auxiliary input
- Optical SPDIF In/Out
- Coaxial SPDIF In/Out
- Digital Out for 5.1 support (6-channel SPDIF Output to Creative digital speakers)
- 1x FireWire® (IEEE® 1394) port
- MIDI In / Out
- Infra-red Receiver

### **Works with the Following Standards**

- Windows® 98SE, 2000, ME and XP
- Sound Blaster MIDI and General MIDI
- Plug and Play Sound Blaster PCI
- EAX, EAX ADVANCED HD\*
- THX®
- Microsoft® DirectSound®, DirectSound 3D & derivatives
- Plug and Play Sound Blaster PCI
- OpenAL™
- PCI 2.2 compliant
- AC97 compliant
- Dolby Digital® and Dolby Digital EX
- DTS Digital Surround® and DTS-ES Extended Surround™
- Meridian Lossless Packing
- ASIO 2.0
- Dolby Digital® and Dolby Digital EX
- SoundFont 2.1
- DVD-Audio and Advanced Resolution™ DVD-Audio
- Windows Media® Audio 9