

Creative Sound Blaster® X-Fi™ High Definition 7.1 Audio Specifications

Overview



- 24-bit Analog-to-Digital conversion of analog inputs at 96kHz sample rate
 - 24-bit Digital-to-Analog conversion of digital sources at 96kHz to analog 7.1 speaker output
 - 24-bit Digital-to-Analog conversion of stereo digital sources at 192kHz to stereo output
 - 16-bit to 24-bit recording sampling rates: 8, 11.025, 16, 22.05, 24, 32, 44.1, 48 and 96kHz
- ASIO 2.0 support at 16-bit/44.1kHz, 16-bit/48kHz, 24-bit/44.1kHz 24-bit/48kHz and 24-bit/96kHz with direct monitoring
 - Enhanced SoundFont support of up to 24-bit resolution

Audio Performance (Rated Output @ 2Vrms, Typical Value)

- Signal-to-Noise Ratio (20kHz Low-pass filter, A-Weighted)
 - Stereo Output: 109dB
 - Front and Rear Channels: 109dB
 - Center, Subwoofer and Side Channels: 109dB
- Total Harmonic Distortion + Noise at 1kHz (20kHz Low-pass filter) = 0.004%
- Frequency Response (-3dB, 24-bit/96kHz input) = <10Hz to 46kHz
- Frequency Response (-3dB, 24-bit/192kHz input) = <10Hz to 88kHz (Stereo only)

Connectivity

- FlexiJack: Line In / Microphone In / Optical Out¹ via shared 3.5mm mini jack
- Line level out (Front / Rear / Side / Center / Subwoofer) via 3.50mm mini jacks
- High Definition Audio compatible front system I/O (microphone / headphones) support

¹ Optical Out supports stereo SPDIF.