

E-Mu 0204 USB Audio Interface

Technical Specifications

General

- Sample Rates: 44.1, 48, 88.2, 96, 176.4, 192kHz from internal crystal (no sample rate conversion)*
- Bit Depth: 24-bit I/O, 32-bit processing
- USB Hi-Speed
 - Full 24-bit resolution at all sample rates
 - Stereo in, stereo out at all sample rates
- Zero-latency direct hardware monitoring (disabled at 176.4-192kHz)
- Windows drivers: ASIO2 and WDM
- Macintosh driver: Apple CoreAudio
- Anti-Pop speaker protection minimizes noise during power on/off
- Ultra-low jitter clock subsystem: < 100ps RMS

Combo Preamplifiers (2)

- Type:
 - (1) Ultra-low noise combo preamplifier with Mic/Hi-Z/line inputs
 - (1) Combo preamplifier with Hi-Z/line balanced input
 - (1) 1/8" condenser mic input with 5V power
- A/D converter: AK5385
- Max Level: +6.5dBV bal/unbal (+8.7 dBu)
- Frequency Response (min gain, 20Hz-20kHz): +0.0/-0.07dB
- Dynamic Range (A-weighted, 1kHz, min gain): 113dB
- Signal-to-Noise Ratio (A-weighted, min gain): 113dB
- THD+N (1kHz at -1dBFS, min gain): -101.9dB (.0008%)
- Ultra-low noise preamplifier (Mic/Hi-Z/line inputs)
 - Input Impedance: 1.5Kohm
 - EIN (20Hz-20kHz, 150ohm, unweighted): -127dBu
- Combo preamplifier with Hi-Z/line balanced input
 - Input Impedance: 1Mohm

Analog Line Outputs (2)

- Type: Unbalanced, AC-coupled, 2-pole low-pass differential filter
- D/A converter: AK4396
- Max Level: 6.7 dBV (unbalanced)
- Frequency Response (20Hz - 20kHz): 0.00/-0.01dB
- Dynamic Range (1kHz, A-weighted): 117dB
- Signal-to-Noise Ratio (A-weighted): 117dB
- THD+N (1kHz at -1dBFS): -101.9dB (.0008%)

- Stereo Crosstalk (1kHz at -1dBFS): <-111dB

Headphone Amplifier

- Type: Class-A power amplifier
- D/A converter: AK4396
- Gain Range: 60dB
- Maximum Output Power: 16mW
- Output impedance: 22ohms
- Frequency Response (20Hz-20kHz): +0.02/-0.08dB
- Dynamic Range (A-weighted): 117dB
- Signal-to-Noise Ratio (A-weighted): 117dB
- THD+N (1kHz, max gain): 300ohm load: -101.9dB (.0008%)
- Stereo Crosstalk (1kHz at -1dBFS, 300 ohm load): <-111dB

Synchronization

- Internal crystal sync at 44.1, 48, 88.2, 96, 176.4, 192kHz*

Retail Box Contents

- E-MU 0204 AudioPod
- USB cable (2 meters)
- Quick Start installation guide
- E-MU Software/Manual CD-ROM (Windows/Macintosh)
 - Windows XP, Vista, Vista x64 and Windows 7 Drivers
 - Macintosh OS X 10.5
 - Owner's Manual and Tutorials
- Acoustica Mixcraft LE CD and registration card (Windows only)

Minimum System Requirements

Windows:

- Intel or AMD processor - 1.2 GHz or faster
- Intel, AMD or 100% compatible motherboard & chipset
- Windows XP (SP3 or greater), Vista/x64, Windows 7/x64 Drivers
- 1 available (Hi-speed) USB 2.0 port
- 1GB System RAM
- 950MB of free hard disk space for full installation
- CD-ROM/CD-RW or DVD-ROM drive required for software installation
- XGA Video (1024 X 768)

Macintosh:

- Apple Macintosh 1.2 GHz Intel-based processor
- Apple Macintosh OS X (10.5 or greater)
- 1 available (Hi-speed) USB 2.0 port
- 1GB System RAM
- 500MB of free hard disk space for full installation
- CD-ROM/CD-RW or DVD-ROM drive required for software installation
- XVGA Video (1024 X 768)

* When connecting the 0204 USB to a USB 1.1 port on a Windows PC, performance will be limited to 16-bit and 44.1/48kHz recording and playback. Macintosh support limited to USB 2.0 ports only.