

E-Mu 0404 PCIe Digital Audio System 24-bit/192kHz Pro Sound Card Specifications

General

- Sample Rates: 44.1, 48, 88.2, 96, 176.4, 192kHz from internal crystal or externally supplied clock (no sample rate conversion)
- Bit Depths: 24-bit I/O, 32-bit processing
- PCIe Specification:
 - PCIe Base Specification 1.1 compliant
 - Form Factor: Universal-keyed PCIe x1 Card
 - 3.3V I/O
 - PCIe Bus Mastering Subsystem reduces CPU Usage
- E-MU E-DSP: 32-bit DSP with 67-bit accumulator (double precision w/ 3 headroom bits)
- Processing: Hardware-accelerated, 32 channel mixing, and multi-effects processing
- Hardware monitoring: Zero-latency direct hardware monitoring w/effects
- Drivers: ASIO2, WDM/MME/DirectSound, and 64-bit Drivers
- Anti-Pop speaker protection: Minimizes noise during power on/off
- Ultra-low jitter clock subsystem: < 1ns in PLL mode (44.1kHz, Opt. S/PDIF Sync)

Analog Line Inputs (2)

- Type: DC-coupled, low-noise input circuitry
- A/D converter: PCM1804
- OpAmp: NJM2068
- Level: -10dBV nominal, 6dBV max (unbalanced)
- Frequency Response (20Hz-20kHz): +0.20/-0.10dB
- Dynamic Range (1kHz, A-weighted): 111dB
- Signal-to-Noise Ratio (A-weighted): 111dB
- THD+N (1kHz at -1dBFS): -100dB (.0001%)
- Stereo Crosstalk (1kHz at -1dBFS): < -120dB

Analog Line Outputs (2)

- Type: Low-pass, 3-pole low-pass differential filter
- D/A converter: AK4396
- Level: -10dBV nominal, 6dBV max (unbalanced)
- Frequency Response (20Hz - 20kHz): 0.05/-0.010dB
- Dynamic Range (1kHz, A-weighted): 116dB
- Signal-to-Noise Ratio (A-weighted): 116dB
- THD+N (1kHz at -1dBFS): -100dB (.0001%)
- Stereo Crosstalk (1kHz at -1dBFS): < -109dB

Digital I/O

- S/PDIF:
 - 2 in/2 out optical or coaxial (transformer coupled)
 - AES/EBU or S/PDIF format (software selectable)
- MIDI: - 1 in, 1 out

Synchronization

- Internal crystal sync: 44.1, 48, 88.2, 96, 176.4, 192kHz
- External sample rate sync: -S/PDIF (opt. or coax 44.1 - 96kHz)
- SMPTE/LTC/MTC (via optional Sync Daughtercard):
 - 24, 25, 30 drop-frame, 30 non-drop
 - SMPTE to MTC, MTC to SMPTE Conversion
 - SMPTE Striping
 - Flywheel/Jam/Regenerate
- S/PDIF: - 2 in/2 out optical or coaxial (transformer coupled)
 - AES/EBU or S/PDIF format (software selectable)

Retail Box Contents

- E-MU 0404 PCIe Card
- E-MU Digital Audio System CD-ROM
- Microsoft® Windows® XP, Windows Vista®, Vista x64 Drivers
- E-MU PatchMix DSP
- E-MU E-DSP Effects Library - Owner's Manual and Tutorials
- Analog I/O Cable Harness
- Digital I/O Cable Harness

Minimum System Requirements

- Intel® or AMD® processor - 1 GHz or faster
- Intel, AMD or 100% compatible motherboard & chipset
- Microsoft® Windows® XP (SP 3), Windows XP x64, Windows Vista® (SP1 or higher), Vista x64
- 256MB System RAM
- 900MB of free hard disk space for full installation
- PCIe x1 Compliant slot for E-MU 1010 PCIe card (also compatible with x4, x8 or x16 PCIe slots)
- CD-ROM/CD-RW or DVD-ROM drive required for software installation
- XGA Video (1024 X 768)