

## E-MU 0404 USB – specyfikacja

Źródło: <http://www.creative.com/emu/products/product.aspx?category=610&pid=15185>

Feature	Description
<b>General</b>	
<b>Sample Rates:</b>	44.1, 48, 88.2, 96, 176.4, 192kHz from internal crystal (no sample rate conversion) <sup>1</sup>
<b>Bit Depth:</b>	24-bit I/O, 32-bit processing
<b>USB 2.0 Hi-Speed:</b>	- Full 24-bit resolution at all sample rates - 4 in/4 out channels from 44.1-96kHz - 2 in/2 out channels from 176.4-192kHz
<b>Hardware monitoring:</b>	Zero-latency direct hardware monitoring (disabled at 176.4-192kHz)
<b>Compatibility:</b>	Windows: ASIO2, WDM, MME - AC3 and DTS Passthru supported Macintosh: Apple CoreAudio and CoreMIDI - AC3 and DTS Passthru supported
<b>Anti-Pop speaker protection:</b>	Minimizes noise during power on/off
<b>Ultra-low jitter clock subsystem:</b>	< 500ps RMS in PLL mode (48kHz, Coaxial S/PDIF Sync)
<b>Combo Microphone Preamplifier/Hi-Z/Line Inputs (2)</b>	
<b>Type:</b>	E-MU XTC™ combo mic preamp and Hi-Z/line input with Soft Limiter
<b>A/D Converter:</b>	AK5385A
<b>Gain Range:</b>	+60dB
<b>Frequency Response (min gain, 20Hz-20kHz):</b>	+0.0/-0.16dB
<b>Stereo Crosstalk (1kHz min gain, -1dBFS):</b>	< -110dB
<b>Hi-Z Line Input:</b>	- Input Impedance: 1Mohm - Max Level: +12dBV (14.2dBu)

	<ul style="list-style-type: none"> <li>- Dynamic Range (A-weighted, 1kHz, min gain): 113dB</li> <li>- Signal-to-Noise Ratio (A-weighted, min gain): 113dB</li> <li>- THD+N (1kHz at -1dBFS, min gain): -101dB (.0009%)</li> </ul>
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<b>Microphone Preamplifier:</b>	<ul style="list-style-type: none"> <li>- Input Impedance: 1.5Kohms</li> <li>- Max Level: +6dBV (+8.2dBu)</li> <li>- EIN (20Hz-20kHz, 150ohm, unweighted): -127dBu</li> <li>- Signal-to-Noise Ratio (A-weighted, min gain): 112.5dB</li> <li>- THD+N (1kHz at -1dBFS, min gain): -101dB (.0009%)</li> <li>- Phantom Power: 48V</li> <li>- Soft Limiter: 5dB max compression (software selectable)</li> </ul>
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### Analog Line Outputs (2)

<b>Type:</b>	Balanced, AC-coupled, 2-pole low-pass differential filter
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<b>D/A converter:</b>	AK4396
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<b>Level (auto detect):</b>	<ul style="list-style-type: none"> <li>- Professional: +12dBV max (balanced)</li> <li>- Consumer: +6dBV max (unbalanced)</li> </ul>
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<b>Frequency Response (20Hz - 20kHz):</b>	0.06/-0.035dB
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<b>Dynamic Range (1kHz, A-weighted):</b>	117dB
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<b>Signal-to-Noise Ratio (A-weighted):</b>	117dB
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<b>THD+N (1kHz at -1dBFS)</b>	-100dB (.001%)
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<b>Stereo Crosstalk (1kHz at -1dBFS):</b>	< -114.5dB
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### Headphone Amplifier

<b>Type:</b>	Class-A power amplifier
<b>D/A converter:</b>	AK4396 (shared with Line Out)
<b>Gain Range:</b>	60dB
<b>Maximum Output Power:</b>	20mW
<b>Output impedance:</b>	22ohms
<b>Frequency Response (20Hz-20kHz):</b>	+0.06/-0.035dB
<b>Dynamic Range (A-weighted):</b>	114dB
<b>Signal-to-Noise Ratio (A-weighted):</b>	114dB
<b>THD+N (1kHz, max gain):</b>	600ohm load: -95.5dB (.0018%)
<b>Stereo Crosstalk (1kHz at -1dBFS, 600 ohm load):</b>	< -85dB
<b>Digital I/O</b>	
<b>S/PDIF<sup>1</sup>:</b>	- 2 in/2 out coaxial (transformer coupled) - 2 in/2 out optical - AES/EBU or S/PDIF format (software selectable)
<b>MIDI:</b>	- 1 in, 1 out
<b>Synchronization</b>	
<b>Internal crystal sync:</b>	44.1, 48, 88.2, 96, 176.4, 192kHz
<b>External sample rate sync:</b>	- Optical S/PDIF (44.1 - 96kHz) - Coaxial S/PDIF (44.1 - 96kHz)

<sup>1</sup> Macintosh analog operation up to 96kHz and digital operation up to 48kHz only at this time.