

Specifications: 1212^m

GENERAL	
Sample Rates	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4kHz, & 192 kHz from internal crystal or externally supplied clock (no sample rate conversion)
Bit Depth	24-bit I/O, 32-bit processing
PCIe Specification	<ul style="list-style-type: none"> ▪ PCIe base specification 1.1 compliant ▪ Form Factor: Universal Keyed, PCIe x1 Card ▪ 3.3V I/O ▪ PCIe Bus-Mastering DMA subsystem reduces CPU use
Hardware DSP	<ul style="list-style-type: none"> ▪ 100MIPs custom 32-bit audio DSP with 67-bit accumulator. (double precision, with 3 headroom bits) ▪ Zero-latency direct hardware monitoring with effects
OpAmps	NJM2068M (JRC)
Drivers	<ul style="list-style-type: none"> ▪ ASIO2, WDM/MME/DirectSound, x64 Drivers ▪ WDM: 2-in/8-out at 44.1kHz, 48kHz, 88.2kHz, 96kHz ▪ WDM: 2-in/4-out at 176.4kHz & 192kHz
EDI (E-MU Digital Interface)	Proprietary 64-channel audio link over CAT-5 cable
Anti-Pop Protection	Anti-pop speaker protection minimizes noise during power-up
ULTRA-LOW JITTER CLOCK SUBSYSTEM (Measured via Audio Precision 2)	SRSync SourceRMS jitter in picoseconds 44.1 kHz Internal Crystal 596ps 44.1 kHz Optical Input 795ps
ANALOG LINE INPUTS (2)	
Type	Servo-balanced, DC-coupled, low-noise input circuitry
A/D Converter	AK5394A
Level (software selectable)	Professional: +4 dBu nominal, 20 dBu maximum (balanced) Consumer: -10 dBV nominal, 6 dBV maximum (unbalanced)
Frequency Response	(20Hz - 20kHz): +/- 0.05 db
Dynamic Range	(1kHz, A-weighted): 120 dB
Signal-to-Noise Ratio	(A-weighted): 120 dB
THD + N	(1kHz at -1 dBFS): -110 dB (.0003%)
Channel Crosstalk	(1kHz at -1 dBFS): -115 dB
Input Impedance	10K ohm

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<u>ANALOG LINE OUTPUTS (2)</u>	
Type	Balanced, low-noise, 3-pole low-pass differential filter, AC-coupled
D/A Converter	CS4398
Level (software selectable)	Professional: +4dBu nominal, 20 dBu maximum (balanced) Consumer: -10 dBV nominal, 6 dBV maximum (unbalanced)
Frequency Response	(20 Hz - 20 kHz): +0.0/-0.35 dB
Dynamic Range	(1 kHz, A-weighted): 120 dB
Signal-To-Noise Ratio	(A-weighted): 120 dB
THD + N	(1 kHz at -1 dBFS): -105 dB (.0006%)
Stereo Crosstalk	(1 kHz at -1 dBFS): < -115 dB
Output Impedance	560 ohms
<u>DIGITAL I/O</u>	
S/PDIF	<ul style="list-style-type: none"> ▪ 2 in/2 out coaxial (transformer coupled) ▪ 2 in/3 out optical (software switchable with ADAT) ▪ AES/EBU or S/PDIF (switchable under software control)
ADAT	<ul style="list-style-type: none"> ▪ 8 channels, 24-bit @ 44.1/48 kHz ▪ 4 channels, 24-bit @ 96 kHz (S-MUX compatible) ▪ 2 channels, 24-bit @ 192 kHz
MIDI	<ul style="list-style-type: none"> ▪ 1 MIDI in, 1 MIDI out (16 channels)
<u>SYNCHRONIZATION</u>	
Internal Crystal Sync:	44.1kHz, 48 kHz, 88.2kHz, 96 kHz, 176.4kHz, 192 kHz
External Sample Rate Sync:	ADAT (44.1kHz - 192kHz) Optical S/PDIF (44.1kHz - 96kHz) Coaxial S/PDIF (44.1kHz - 192kHz)