



miXart 8 range - complementary product information

Digigram miXart 8 AES/EBU

Multichannel Audio Processing and Mixing Sound Card with Analog and Digital I/Os



▶ MIXART™ Its 8/8 analog mono I/Os in Digigram quality and its 4/4 stereo AES/EBU inputs/outputs make the miXart 8 AES/EBU the ideal card for professional audio environments, particularly broadcast. Due to its synchronization capabilities, this card is also an excellent choice to integrate audio within video systems. Software options available for the miXart 8 platform turn this card into a powerful, high-performing audio processing device.

Configuration

Bus/Format	PCI master mode
Digital Signal Processor	8240 Power PC at 250 MHz
Memory SDRAM	16 MB
Size	265 mm X 107 mm
Power Consumption	+5 V 2.7 A +12 V 0.3 A / -12 V 0.2 A
Operating: temp/humidity (non-condensing)	0°C to +50°C 5% to 90%
Storage: temp/humidity (non-condensing)	-5°C to +70°C 0% to 95%
Connectors	Breakout cable with 16 XLR and 2 DIN Breakout cable with 9 XLR, 3 BNC, and 1 cinch

Audio inputs/outputs

Analog mono inputs	4 balanced, line/mic, with phantom power 4 balanced, line
Analog inputs 1 to 4	
Impedance	>8 k Ω
Analog gain adjustment	0.5 dB steps
Max input level	+22 dBu
Analog inputs 5 to 8	
Impedance	>8 k Ω
No analog gain adjustment	
Input level to ensure 0 dBFs	Switchable during installation between +10 dBu and +22 dBu
AES/EBU stereo inputs	4 When recording from a AES/EBU input, the card is locked on the AES/EBU input sample clock External synchronization is necessary when using simultaneously the 4 AES/EBU inputs The analog and AES/EBU inputs can be used simultaneously.
Analog mono outputs	8 balanced
Maximum output line level / Impedance	+22 dBu / <100 Ω
Analog variable attenuation	0.5 dB steps
AES/EBU stereo outputs	4 The analog and AES/EBU outputs are independent

External synchronization

AES/EBU sync input	Yes. AES11 compliant.
Word Clock sync input	Yes
Word Clock sync output	Yes
LTC sync input	Yes
LTC (SMPTE) input level	-20 dBu to +6 dBu
Time code capture speed tolerance	\pm 15%
Video sync input	Black burst or HSync (TTL level)

Audio specifications

Sampling frequencies	From 7 - 50 kHz, 100 Hz steps
Audio processing	32 bit floating point
A/D and D/A converter resolutions	24 bit
Frequency response at 48 kHz (record + play)	\pm 0.2 dB
Signal-to-noise ratio (unweighted)	> +93 dB (line)
Distortion + noise at 1KHz (record + play)	0.004% (<-88 dB)
Channel phase difference : 20Hz to 20kHz	0.2° to 2°
Analog channel crosstalk at 1 KHz	< -105 dB

Development and integration environments

Digigram management	np SDK (PCX Tools, PCX Designer Kit, PCXedit) VConsole Builder, VConsole Designer Kit
Other management	Wave
OS supported	Windows NT4, Windows 2000, Windows XP
PC requirements	Pentium II (or equivalent) Minimum, 128 MB RAM
Software features	
Default	PCM, scrub, time-stretching, mixing, routing, digital levels, phase inversion, mute, panning, balance, parametric equalization, compression/expander, noise gate
Optional	MPEG layer I, II encoding/decoding and mp3 decoding Sample Rate Conversion Delay

Note: Certain combinations of features may be limited by the total available processing power of the miXart 8 or host computer.

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