



Features

- ▶ Studio quality 8-channel AD and DA converter
- ▶ Phantom power on all microphone inputs
- ▶ 44.1 kHz and 48 kHz sample rates
- ▶ External sample rate synchronization via word clock or ADAT input
- ▶ Optical ADAT in/out interface
- ▶ All mic/line inputs are routed to the ADAT output
- ▶ ADAT input can be routed to all Line outputs
- ▶ Simultaneous DAC and ADC operation possible
- ▶ Balanced XLR line-level output connectors
- ▶ Signal & clip indicators on all input channels
- ▶ High-quality components and reliable power supply

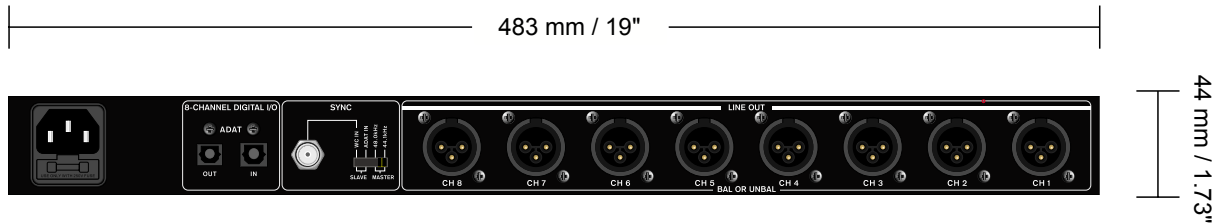
Description

Phonic's new Firefly ADA8 is a studio quality 8-channel, 24-bit A-D/DA converter with very low noise Microphone Preamps and ADAT® interface. Its mains-powered 1U rack format houses eight mic/line preamps with global phantom power. These feed an oversampling delta-sigma A-D converter that in turn sends eight channels of 24-bit digitized signal out of the back panel via an ADAT® lightpipe connector. The unit also features an ADAT® lightpipe input that feeds a D-A converter, where the analogue signals emerge as electronically balanced XLR outputs on the rear panel. There's a word-clock BNC input to allow control from a master clock source, and a slide switch on the rear panel sets the unit to master or slave mode with a choice of ADAT or word-clock sync at a choice of 44.1 kHz or 48 kHz internal clock rates.

Firefly ADA8

8 Channel AD/DA Converter

Dimensions



Specifications

Microphone Inputs	
Type	Electronically balanced, discrete input circuitry
Gain range	+10 to +60 dB
Max. input level	+6 dBu @ +10 dB gain for 0 dBFS
Impedance	approx. 2 kΩ balanced
Phantom Power	+48V, switchable
Line Inputs	
Type	1/4" TRS connector, electronically balanced, discrete input circuitry
Impedance	approx. 20 kΩ balanced, approx. 10 kΩ unbalanced
Gain range	-10 to +40 dB
Max. input level	+ 26 dBu @ -10 dB gain for 0 dBFS
Line Outputs	
Type	XLR< electronically balanced
Impedance	approx. 500 Ω balanced, approx. 250 Ω unbalanced
Max. output level	+16 dBu @ 0 dBFS
Digital Input	
Type	TOSLINK, optical connector
Format	ADAT, 8 channels, 24-bit @ 44.1/48 kHz
Digital Output	
Type	TOSLINK, optical connector
Format	ADAT, 8 channels, 24-bit @ 44.1/48 kHz
AD/DA Converter	
Type	24-bit, 64-times oversampling, delta-sigma
Dynamic range	Analog input to digital output, approx. 103 dB

D/A Converter	
Type	24-bit, 64-times oversampling, delta-sigma
Dynamic range	Digital input to analog output, approx. 100 dB
Synchronization	
Source	Internal 44.1 kHz, internal 48 kHz, ADAT input, wordclock input
Wordclock Input	
Type	BNC, 1 x sample rate
Input level	2 to 6 V peak-to-peak
Frequency range	44.1 to 48 kHz
System Specifications	
Frequency range	10 Hz to 21 kHz @ 48 kHz sampling rate
THD	<0.01%
Crosstalk	<-86 dB
Power Supply	
Switching power supply	100V - 240V, 50-60 Hz
Power consumption	25W
Fuse	100 - 120V: T 630 mA H 200-240V: T 315 mA H
Mains connection	Standard IEC receptacle
Physical	
Dimensions (H x W x D)	44 x 483 x 217 mm (1.73" x 19" x 8.5")
Weight	2.3 kg