iD4

SPECIFICATIONS

MICROPHONE PREAMPLIFIER:
(measurement includes ADC signal path)

MIC GAIN:	0 to 66 dB (incl. +10 dB software boost)
LINE GAIN:	-10 to 56 dB (-10dB hardwired line pad)
PHANTOM POWER:	48V ±4V @ 10mA channel (on USB!)
MIC EIN:	<126.0 dBu
CMRR:	>75 dB @ 1kHz
MAXIMUM INPUT LEVEL:	+12 dBu (0 dBFS digital maximum)
INPUT IMPEDANCE (Mic):	2.8k Ω balanced
INPUT IMPEDANCE (Line):	>8k Ω balanced
FREQUENCY RESPONSE:	±0.1 dB 20Hz to 22kHz @ min. gain
	±1.0 dB 20Hz to 22kHz @ max. gain
CROSSTALK:	<91 dBu
THD+N @ 0dBu (1kHz):	<0.0015% (-96.5 dBu)
SNR:	96 dB un-weighted, 99 dB A-weighted
XLR COMBI FEMALE:	Pin 2 (Hot), Pin 3 (Cold) & Pin 1 (Shield)
1/4" TRS JACK:	Tip (Hot), Ring (Cold) & Sleeve (Shield)

D.I / INSTRUMENT INPUT:
(Channel 2)

D.I GAIN:	-5 to 45dB (incl. +10dB software boost)
MAXIMUM INPUT LEVEL:	+8 dBu (0.6% THD typical)
INPUT IMPEDANCE:	>500k Ω unbalanced
FREQUENCY RESPONSE:	±0.1dB 20Hz to 22kHz
THD+N @ 0dBu (1kHz):	<0.1% all musical 2nd and 3rd harmonic
	Typically 0.05% at 0dBu
SNR:	87 dB un-weighted, 90 dB A-weighted
1/4" TS JACK:	Tip (Hot) & Sleeve (Shield)

DUAL HEADPHONE OUTPUT:

MAXIMUM OUTPUT LEVEL:	+12 dBu (0 dBFS digital maximum)
OUTPUT IMPEDANCE:	<30 Ω unbalanced
VOLTAGE GAIN:	+6 dB (optimised for loudness)
FREQUENCY RESPONSE:	±1.0dB 10Hz to Fs/2 (load dependent)
CROSSTALK:	<-98 dBu @ 1kHz & 10kHz
THD+N @ -1dBFS (1kHz):	<0.0012% (-98.4 dB)
DYNAMIC RANGE:	106 dB un-weighted, 108 dB A-weighted
MAXIMUM LEVEL into 30 Ω:	+3 dBu 0.008% THD+N Power: 80mW
MAXIMUM LEVEL into 60 Ω:	+6 dBu 0.005% THD+N Power: 80mW
MAXIMUM LEVEL into 600 Ω:	+12 dBu 0.0025% THD+N Power: 31mW
1/4" TRS JACK:	Tip (Left), Ring (Right) & Sleeve (Shield)
1/8" MINI JACK:	Tip (Left), Ring (Right) & Sleeve (Shield)

Both headphone outputs can be driven simultaneously for two users or just never worry about carrying the right jack adapter ever again!

ANALOGUE TO DIGITAL CONVERTER (ADC 1 & 2):
(Measured sans microphone preamplifier under AES-17)

MAXIMUM INPUT LEVEL:	+12 dBu (0 dBFS digital maximum)
DIGITAL REFERENCE LEVEL:	+12 dBu = 0 dBFS
FREQUENCY RESPONSE:	±0.1 dB 10Hz to Fs/2 (flat to nyquist)
CROSSTALK:	-100 dBu @ 1kHz & 10kHz
THD+N @ -1dBFS (1kHz):	<0.001% (-100 dB)
THD+N @ -6dBFS (1kHz):	<0.0011% (-99.1 dB)
DYNAMIC RANGE:	112 dB un-weighted, 114 dB A-weighted

USB2.0 HIGH SPEED:

BUS POWER:	500mA @ 5V System Limit	
	420mA @ 5V Maximum (with 48V)	
No. of INPUT CHANNELS:	2	(2 Analogue)
No. of OUTPUT CHANNELS:	2	(2 Analogue)
DSP MIXER LATENCY:	ROUND TRIP (in-to-out)	
	44.1kHz	1.583ms
	48.0kHz	1.458ms
	88.2kHz	0.792ms
	96.0kHz	0.729ms

DIGITAL TO ANALOGUE CONVERTER (DAC 1 & 2):
(Measured under AES-17 at line outputs 1 & 2)

MAXIMUM OUTPUT LEVEL:	+12 dBu (0 dBFS digital maximum)
DIGITAL REFERENCE LEVEL:	+12 dBu = 0 dBFS
OUTPUT IMPEDANCE:	<100 Ω
FREQUENCY RESPONSE:	±0.1 dB 10Hz to Fs/2 (flat to nyquist)
CROSSTALK:	<-104 dBu @ 1kHz & 10kHz
THD+N @ -1dBFS (1kHz):	<0.0015% (-96.5 dB)
DYNAMIC RANGE:	112 dB un-weighted, 115 dB A-weighted
1/4" TRS JACK:	Tip (Hot), Ring (Cold) & Sleeve (Shield)

POWER SUPPLY:

USB2.0 Bus Powered (2.5 Watts Maximum)

iD4 features our class leading converters and class-A mic pre. We've optimised all circuitry so that we can supply true 48V phantom power to a single Audient mic pre without compromise. Your microphones will thank you when they get enough voltage!

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