

**Features**

- Audiophile A/D converter
- Flexible Phono preamp powered by Digital Signal Processor (DSP)
- IR remote control

**Hardware**

- XMOS UAC2 USB interface
- SPDIF & TOSLINK outputs for computerless digitization
- Multiple DSP phono Equalization
- Preset to store configurations
- 123dB SNR / -117dB THD+N

**USB Audio Recording**

- Convenient Plug&Play solution
- Sample rates from 44.1~192 kHz

**Applications**

- Flexible A/D conversion
- Phono preamp for digital systems
- Vinyl digitization
- Audio measurements

The **miniDSP Adept** is a compact high-resolution A/D (analog-to-digital) converter that accepts single-ended (RCA) or balanced (on XLR) audio signals. The digital output is available on SPDIF coaxial and TOSLINK optical connectors, and can also be recorded to a computer or mobile device via the USB-C connector. Adept combines low latency, high sample rate and extremely low noise floor performance to provide optimal digitization of your favorite analog audio content.

The **miniDSP Adept** is also a phono preamp (with a turntable connected to the RCA inputs) with accurate phono equalization for moving magnet or moving coil cartridges. In addition to the standard RIAA phono equalization curves, we've used the power of DSP to provide additional curves that will be of interest to the keen collector of older vinyl. A range of input gain, resistance and capacitance values are provided to optimize for any cartridge and can easily be saved and recalled in your favorite preset.

miniDSP once again innovates with audiophile performance in a package that doesn't break the bank.



**TYPICAL APPLICATION**



## TECHNICAL SPECIFICATIONS

	Description
<b>USB &amp; DSP Audio Processor</b>	XMOS Multicore processor, USB Asynchronous, UAC2 interface, Firmware upgradable
<b>ADC resolution/Sample rate</b>	ESS ES9842 Pro - 32 bit/44.1~192kHz
<b>USB Audio support</b>	UAC2 Audio - Custom ASIO driver (Windows) / Driverless on (Mac/Linux/Android/IOS)
<b>Digital Audio Output Connectivity</b>	1 x USB audio (PCM) on USB type C 1 x SPDIF on RCA connector, 1 x OPTICAL on Toslink connector Supported sample rates: 44.1 ~ 192 kHz
<b>Input/Output configuration</b>	2 x channel analog in (Unbalanced RCA or Balanced XLR), 2 x channel digital out
<b>Filtering Technology / Presets</b>	IIR / Up to 4 presets
<b>Dimensions</b>	150x180x41 mm
<b>Accessories</b>	IR Remote for control of source/volume/preset/standby
<b>Power Supply</b>	Included external switching PSU 12V/1.6A (US/UK/EU/AU plugs)
<b>Power Consumption</b>	6 W (idle) / 0.9 W (standby)

## AUDIO SPECIFICATIONS

Input Source	Moving Coil (MC)/RCA	Moving Magnet(MM)/RCA	Line-in/RCA	Line-in/XLR
<b>Selectable Phono Equalization mode (IIR+FIR)</b>	RIAA, IEC No.98 (500R-13.7) Decca 33.3, London M33 (500C-12) Columbia LP M33 (500C-16)		N/A	N/A
<b>Phono EQ Accuracy (RIAA, Decca and Columbia)</b>	Within $\pm 0.1$ dB (20 Hz - 20 kHz)			
<b>Optional High Pass Filter (Subsonic filter)</b>	At 20 Hz with 24 dB/octave			
<b>Maximum analog input (before digital gain &amp; RIAA EQ if applicable, at Low, Medium, High Gain)</b>	81mV, 29mV, 12mV	220mV, 110mV, 68mV	N/A, 2.2 V, 1.1 V	N/A, 4.4 V, 2.2 V
<b>Maximum recommended cartridge output @1kHz, 5cm/sec (Low, Medium, High Gain)</b>	4.2mV, 1.5mV, 0.6mV	13mV, 6.5mV, 4mV	N/A	N/A
<b>Selectable Input Impedance (Low, Medium, High)</b>	50 $\Omega$ , 100 $\Omega$ , 1 k $\Omega$	33 k $\Omega$ , 50 k $\Omega$ , 100 k $\Omega$	33 k $\Omega$ , 50 k $\Omega$ , 100 k $\Omega$	Fixed at 200 k $\Omega$
<b>Selectable Input Capacitance (Low, Medium, High)</b>	1 nF, 3 nF, 5 nF	50 pF, 100 pF, 500 pF	50 pF, 100 pF, 500 pF	Fixed at 100 pF
<b>Frequency Response</b>	20 Hz - 20 kHz $\pm 0.2$ dB	20 Hz - 20 kHz $\pm 0.1$ dB	20 Hz - 20 kHz $\pm 0.05$ dB	
<b>SNR vs Low(L), Medium(M), High(H) gain setting</b>	With RIAA EQ 84 dB(A) ref @ 2mV (L) 79 dB(A) ref @ 1mV (M) 73 dB(A) ref @ 0.5mV (H)	With RIAA EQ 95 dB(A) ref @ 10mV (L) 90 dB(A) ref @ 5 mV (M) 87 dB(A) ref @ 2.5 mV (H)	122 dB(A) at med gain 120 dB(A) at high gain	123 dB(A) at med gain 122 dB(A) at high gain
<b>THD+N vs Low(L), Medium(M), High(H) gain setting</b>	With RIAA EQ -77 dB (0.014 %) ref @(L) -71 dB (0.028 %) ref @(M) -65 dB (0.056 %) ref @(H)	With RIAA EQ -89 dB (0.0035 %)ref @(L) -83 dB (0.007 %) ref @(M) -80 dB (0.01 %) ref @(H)	-116 dB (0.00017 %) at med gain -115 dB (0.0002 %) at high gain	-117 dB (0.00015 %) at med gain -116 dB (0.00017 %) at high gain
<b>Crosstalk</b>	-85 dB	-100 dB	-132 dB	-138 dB