



## ***Alpha Design Labs Esprit DAC Digital Preamplifier***

***A Compact, Surprisingly Cost-Effective Way to Control Your Multimedia Audio System***

***Records Analog and Digital Sources to Computer Hard Drive at 24/96***

***24/192 DAC · 24/96 USB Input · Low Jitter I<sup>2</sup>S Clock Recovery System***

***USB Audio Controller Supports Asynchronous Mode and ASIO***

***High Performance 16-to-600 Ohm Headphone Amplifier***



As the great jazz composer Sun Ra says, “Space is the place”. Most of us live in tight quarters and there’s little room for large, hot-running and inefficient components. Many now store and play their music from hard drives and portable devices such as the ADL Cruise and Stride Headphone Amplifiers. But audiophiles always want what they want, better sound and more convenience.

Last year ADL by Furutech introduced the GT40 USB DAC Analog Recorder to great acclaim. The new, higher-specified Esprit is a compact 24/192 DAC Preamplifier with digital as well as analog inputs. Control a mix of analog, digital or computer-based sources while recording vinyl or other analog or digital sources to hard disk! The Esprit excels as a standalone digital preamplifier when not playing computer-based files via USB. The exceptional headphone amplifier drives 16-to-600 ohm headphones with aplomb.

The Esprit is designed around a 24-bit/192kHz Wolfson DAC and a 24/192 Cirrus Logic CS5361 ADC delivering a stunning 114dB dynamic range. The Esprit supports Asynchronous Mode, ASIO and features optical, coaxial, USB, and a pair of line-level inputs. The optical output works solely with USB input and supports S/PDIF digital surround formats like AC3 and DTS! A wall adaptor provides enough power for high resolution playback.

The sound is vivid, captivating, palpable and unheard of in this price category. The Alpha Design Labs Esprit brings Furutech’s signature smooth, detailed clarity to high-resolution 24/96 files and even 16/44.1 material sounds better and more satisfying!

## Features

- 24/192kHz Wolfson WM8716 DAC
- 24/192kHz Cirrus Logic CS5361 ADC converter with Multi-bit architecture at 114dB dynamic range
- 24/192kHz CIRRUS LOGIC CS8416 Digital Audio Interface Receiver with low-jitter clock recovery
- 24/96kHz Tenor TE7022L Hi-Q USB Audio Streaming Controller
  - Supports Asynchronous Mode and ASIO
  - Supports USB 2.0 Full Speed and USB Audio Class 1.0
  - 2 isochronous input endpoints for recording, 2 isochronous output endpoints for playback, and 1 interrupt endpoint for HID
  - Supports 32/44.1/48/96kHz sampling rates
  - I<sup>2</sup>S bus separates clock and data signals for very low jitter connections
  - Supports 2 input and 2 output channels with one I<sup>2</sup>S pair with independent sampling rates
  - Optical output functions with USB sources only
  - Output S/PDIF signals support digital surround multichannel formats like AC3 and DTS
- Toggle switch chooses recording attenuation of 0, 6, or 12dB
- Toggle switch chooses S/PDIF sampling rate playback at 96kHz or 192kHz
  - Reset sampling rate switch after changing by turning the Esprit off and on
  - Set to 96kHz for better performance when playing sampling rates of up to 96kHz on source components like CD or DVD players
  - Set to 192kHz for 192kHz source material only or there will be no audio output
- Dual External power supplies
  - Power supply 1: 5V DC from bus-powered USB chip and optical output only
  - Power supply 2: External DC 15V / 800mA / 12W AC/DC Switching Adaptor for high resolution audio
- Headphone Amplifier: TI TPA6120A2 driving 16-to-600 ohms 'phones at >120dB dynamic range
- Highest Quality Parts like ELNA ROB or ELNA RFS-grade capacitors
- Line In, Out and DAC OPA : Burr-Brown OPA2134 (with DIP socket) and upgradable
- OP Amp ( ADC ): JRC NJM5532 Low-Noise Dual Operational Amplifier
- No drivers are necessary with Mac computers and a single standard driver is supplied for Windows
- Furutech gold-plated PTFE-insulated RCA connectors
- Best quality aluminum chassis and beautifully-machined and operating volume control
- Inputs: LINE1 and 2, OPTICAL and COAXIAL

Specifications
USB/Analog Playback/Multimedia Recording
Connectivity: USB-B Interface, analog input/output on RCA jacks, optical Toslink input and coaxial input RCA connectors , output Toslink connector (USB output only)
USB Playback Resolution 24-bit/96kHz (Max) USB Recording Resolution: 16-to-24 bits, Sampling Rate: 32/44.1/48/96kHz
Coaxial and Optical Playback Resolution: 24-bit/192KHz (Max)
Frequency response: 20Hz ~ 20kHz (±0.5 dB)
S/N ratio: -95dB (A-wtd) / Line Output
Max. Line Output Level: 7.5 VRMS (THD <1%) Line Output impedance : 100 ohms

THD: Line Input < 0.01% , Digital Input <0.05%
Headphone Max. Output Level: 1% THD 1kHz, 156mW (16 ohms), 224mW (32 ohms), 241mW (56 ohms), 130mW (300 ohms), 76mW (600 ohms)
Power supply-1: 5V DC from USB bus-powered USB chip - optical output only
Power supply-2: ErP Step2 Compliant, 2-wire AC, Class II, AC/DC Switching Adaptor DC 15V / 0.8A / 12W
Dimensions: 150mm / 6" (w) x 141mm / 5.5" (d) x 57mm / 2.25" (h)
Weight: ~ 970g / 2.14lbs

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