

StudioHub+[®]

A/D MatchJack



Description

The StudioHub+ A/D MatchJack is a professional stereo Analog to Digital converter. Inputs may be either IHF unbalanced inputs via RCA connector or professional balanced inputs via an RJ-45 wired to StudioHub+ pin-out standards. The input signal is converted to 24 bit digital audio and is output as transformer balanced AES/EBU via an RJ-45. Sample rate is crystal dependant. Crystals are available for 32kHz, 44.1kHz, 48kHz and 96kHz. The crystal is factory provided at frequency but is socketed and may be easily changed-out in the field. Power is supplied either via StudioHub+ "DC-Link" (through either input or output RJ-45) or via an optional "wall wart". The StudioHub+ A/D MatchJack is housed in a plastic enclosure.

Specifications

Analog Inputs: IHF unbalanced via RCA jack; Professional Level Balanced via RJ45

Analog Input Selection: IHF unbalanced or Professional Level Balanced selected via jumpers

Maximum Analog Input Level IHF Unbalanced: +14dBV

Maximum Analog Input Level Professional Balanced: +28dBu

Analog Input Impedance IHF unbalanced Input: 9.2K ohms

Analog Input Impedance Professional Balanced Input: 40K ohms

Digital Output: AES/EBU transformer balanced via RJ45

Sample Rate: Crystal dependent, 32kHz, 44.1kHz, 48kHz, 96kHz. Crystal is socketed and may be field changed.

A/D resolution: 24 bits, 64X oversampling

Analog Input Sensitivity IHF Unbalanced – Jumper Selectable

-6dBV to produce -20dBFS

-10dBV to produce -20dBFS

-15dBV to produce -20dBFS

Analog Input Sensitivity Professional Balanced – Jumper Selectable

+8dBu to produce -20dBFS

+4dBu to produce -20dBFS

0dBu to produce -20dBFS

Minimum Headroom: 20dB

Dynamic Range: 100dB A WTD

THD: <.01% (20Hz – 20kHz) reference -1dBFS

Frequency Response: +/- .2dB (20Hz – 20kHz, fs >= 44.1kHz)
+/- .2dB (20Hz – 14kHz, fs = 32kHz)

Crosstalk: better than 95dB (20Hz – 20kHz)

Power: external +/- 15 volts 200ma supplied via StudioHub+ or wall wart.

Indicators: power led

Dimensions: 2.8" x 4.5" x 1"



Power Locally or Centrally by StudioHub+
All products power independently with a wall power supply or via "DC-Link" as part of your StudioHub+ wiring system.



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