



RDL[®]
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

FLAT-PAK™ SERIES

Model FP-AVDA4

Audio/Video Distribution Amp

- Consumer Audio/Video Distribution
- Four Outputs (Video + Stereo Audio)
- Professional Quality Performance
- 75 Ω Video Input/Outputs
- Unbalanced Audio Input/Outputs
- Wideband Video – Flat to 10 MHz
- Ultra-Compact All Metal Construction
- Convenience of RDL FLAT-PAKs



The FP-AVDA4 is part of the group of versatile FLAT-PAK products from Radio Design Labs. The unique FLAT-PAK case can be directly screwed or bolted to cabinets or shelves. Optionally available rack-mounting accessories permit single or multiple FLAT-PAK module mounting. All FLAT-PAK modules are supplied with a power interconnect cable for daisy-chaining multiple modules from a single power supply.

APPLICATION: The FP-AVDA4 is the ideal choice in applications where consumer format audio and video signals need to be distributed simultaneously. Audio and video inputs and outputs are made on the top panel phono jacks. Power connections are made using either the full-size barrier block terminals or a dc power jack located in one end panel. A second dc power jack is provided on the other end panel for connecting additional Flat-Pak modules.

The FP-AVDA4 has a single 75 Ω input phono jack for the video signal and two phono jacks for the left and right audio inputs. Four source-terminated, 75 Ω video outputs are provided on the video output phono jacks. Four stereo audio outputs are provided on phono jack pairs located adjacent to the corresponding video output. Unused outputs need not be terminated. Audio and video outputs are at unity gain.

The FP-AVDA4's low profile and compact size permit mounting in confined spaces and in various locations in equipment racks. The location of the input/output jacks permits high-density mounting against flat surfaces while maintaining accessibility to the connectors. Installations requiring multiple distribution amplifiers are ideally designed using FP-AVDA4s affixed to rack sides, or by mounting them to either the front or rear rack rails using the RDL FP-RRR.

Wherever wide-band video and audio need to be distributed economically with professional quality, reliability, compactness and unsurpassed versatility, the FP-AVDA4 is the ideal choice. Use the FP-AVDA4 individually, or combine it with other RDL products as part of a complete audio/video system.



Installation/Operation

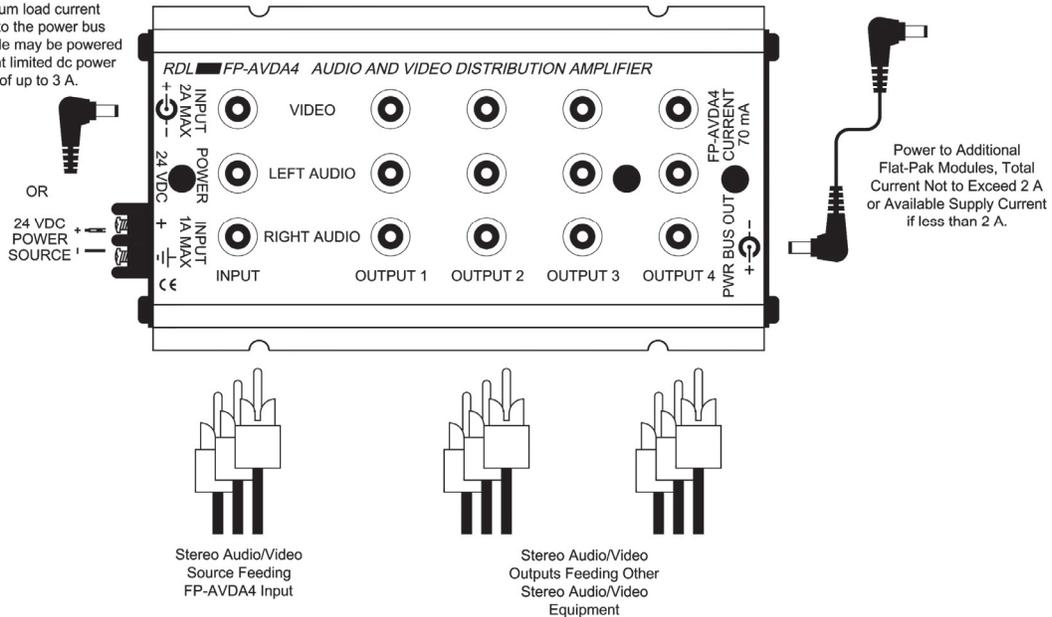
CE Declaration of Conformity available from rdlnet.com.
Sole EMC specifications provided on product package.
Specifications are subject to change without notice.

FLAT-PAK™ SERIES

Model FP-AVDA4

Audio/Video Distribution Amplifier

The maximum required input current is 2 A with the maximum load current connected to the power bus output. Module may be powered from a current limited dc power supply of up to 3 A.



Power to Additional Flat-Pak Modules, Total Current Not to Exceed 2 A or Available Supply Current if less than 2 A.

TYPICAL PERFORMANCE

VIDEO SECTION:

Input: Phono jack, 1V p-p
 Input Impedance: 75 Ω
 Gain: Unity
 Load Impedance: 75 Ω
 Outputs (4): Phono jack
 Output Level: 1 V p-p (into 75 Ω)
 Frequency Response: 10 Hz to 10 MHz (+/- 0.2 dB)
 Noise: < -75 dB (below 1 V p-p)
 Output Isolation: > 45 dB
 Differential Gain: 0.1%
 Differential Phase: 0.1 degree (measured at 10% and 90% APL)

AUDIO SECTION:

Inputs (2): Phono jacks (stereo), -10 dBV Unbalanced
 Input impedance: 10 kΩ, bridging
 Gain: Unity
 Outputs (8): Phono jacks (4 stereo)
 Output impedance: 150 Ω, drives 10 kΩ lines
 Frequency Response: 20 Hz to 40 kHz (+/- 0.25 dB)
 THD+N: < 0.05%; typ. 0.01% (1 kHz)
 IMD: < 0.02%
 Output Level: -10 dBV
 Headroom: > 18 dB
 Noise: < -85 dB referred to -10 dBV (20 Hz to 20 kHz)
 Crosstalk: Better than -75 dB (20 Hz to 20 kHz); typ <-90 dB (1 kHz)
 Power Requirement: 24 Vdc @ 60 mA, Ground-referenced
 Overall Dimensions:
 Height: 1.20 in. 3.05 cm
 Width: 3.25 in. 8.26 cm

Radio Design Labs Technical Support Centers

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