

INOmini 514

FM Multiplex Decoder



Inovonics' INOmini 514 is a standalone decoder for FM-stereo multiplex signals. It accepts a demodulated FM-baseband input and decodes the signal to discrete left and right channel audio. The recovered stereo program is available as a professional line-level balanced output, and also as an AES digital audio signal.

Local alarm 'tallies' and selectable de-emphasis curves make the INOmini 514 an essential tool for professional applications wherever a stereo-baseband signal needs to be decoded and monitored.



5805 Hwy 9, Felton CA 95018
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514 FM MULTIPLEX DECODER



FEATURE HIGHLIGHTS

- Decodes Composite/MPX signal into L/R audio
- Analog L/R and AES-digital program line outputs
- Accurate front-panel metering
- Front-panel alarms with rear-panel 'tallies' for program Audio Loss (silence sense) and stereo Pilot Loss (stereo/mono status)
- Selectable 75 μ s/50 μ s de-emphasis

SPECIFICATIONS

Multiplex (MPX) Input:

Unbalanced/bridging (BNC); 10k input impedance; requires 0.5V p-p minimum signal

L/R Analog Line Outputs:

Active-balanced (XLR), 200-ohm source impedance; +4dBu output at '0dB' on front-panel meter

AES Digital Output:

Transformer-balanced (XLR), 44.1kHz sampling rate; -6dBFS output at '0dB' on front-panel meter

Headphone Jack:

3.5mm (TRS) for low-Z or high-Z phones, fixed listening level

Program Audio De-Emphasis:

75 μ s/50 μ s, selected with push-on jumpers under the top cover

Audio Frequency Response:

Follows selected de-emphasis characteristic ± 0.5 dB, 20Hz to 15kHz

Noise:

(SNR re: ± 75 kHz deviation)
MONO: >69dB analog; >72dB, AES-digital
STEREO: >65dB analog; >65dB AES-digital

Distortion:

$\leq 0.05\%$ THD, 20Hz - 15kHz (analog/digital)

Stereo Separation:

>50dB, 20Hz - 15kHz (analog/digital)

Forced-Mono Operation:

Enabled with a push-on jumper under the top cover

Alarm Tallies:

Individual open-collector NPN transistor outputs for Program Audio Loss (either/ both channels) and Pilot Loss (stereo/mono indicator)

Power Requirement:

12VDC at 230mA; a 'brick-type' (inline) switchmode power supply appropriate to the destination AC mains voltage is provided.

Mounting Options:

An optional rack adapter mounts one, two, or three INomini format units in a standard 19-inch, 1U rack space.

Size and Weight:

1.6"H x 5.5"W x 5.5"D
4 lbs. shipping weight

(optional rack adapter)



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