

## AUDIO SOLUTIONS

### Stereo Audio Unbalanced to Balanced Converter and Line Conditioner

Part Number: SC206-204 and SC206-205



Ideal for eliminating the effects of transmission interference when using single-ended audio signals - such as those commonly transmitted from personal music players or computers via connector formats such as 3.5mm and RCA - the new Altinex SC206-204 and sister product SC206-205 audio signal converter and conditioners eliminate noise and interference caused by external RF signals and by variations in ground levels - making them an excellent choice for improving audio quality in presentation systems.

The SC206-204 / 205 use high quality transformers to reduce noise on single-ended audio signals by converting the single-ended audio signal to a balanced or differential format and by isolating grounds to eliminate ground loops. Especially effective when close to the original source, the SC206-204 / 205 is excellent low cost insurance to maintain pristine sound quality when it reaches the amplifier.

#### **REMOVES 60 Hz "Hum"**

Installed close to the source device, the SC206-204 / 205 silences the all too common 60 Hz "Hum" by converting the signal from single-ended to balanced. Other artifacts of improper grounds and transmission interference are also removed by this technique.

#### **ELIMINATES NOISE FROM GROUND LOOPS**

Long distances and differences in ground levels are the primary culprits of earth or ground loops and are not easily resolved by integrators. By isolating troublesome grounds using the SC206-204 / 205, the sound is maintained in its original pristine quality.

#### **FULLY PASSIVE**

The SC206-204 and SC206-205 do not require external power - eliminating the need for a wall transformer or other external power source. This convenience enables these devices to be used almost anywhere without being tethered to an electrical outlet.

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## SPECIFICATIONS

### GENERAL

#### Connectors

INPUT: (1) 3.5 mm Mini-Plug Male (SC206-204)  
(2) RCA Connector (SC206-205)

OUTPUT: (1) 5-Pin Male Terminal Block  
(1) 3.5 mm Mini-Plug Female (SC206-204 - Local Loop Out)

POWER: None Required

### MECHANICAL

MATERIAL: FP-301 Tubing, Clear

DIMENSIONS: 0.8" X 1.3" X 2.5" (20 X 33 X 64mm)

WEIGHT: 0.2 lbs (0.1 kg)

SHIPPING WT: 0.6 lbs (0.3 kg)

TEMPERATURES: 10°C TO 40°C, Max 0°C to 50°C

MTBF (Calc): 100,000 Hours

### ELECTRICAL

#### INPUT SIGNALS

IMPEDANCE: 600 Ohms

MAX LEVEL: 3 dBu

#### OUTPUT SIGNALS

GAIN: 0 dB (- 0.3 dB)

IMPEDANCE: 600 Ohms

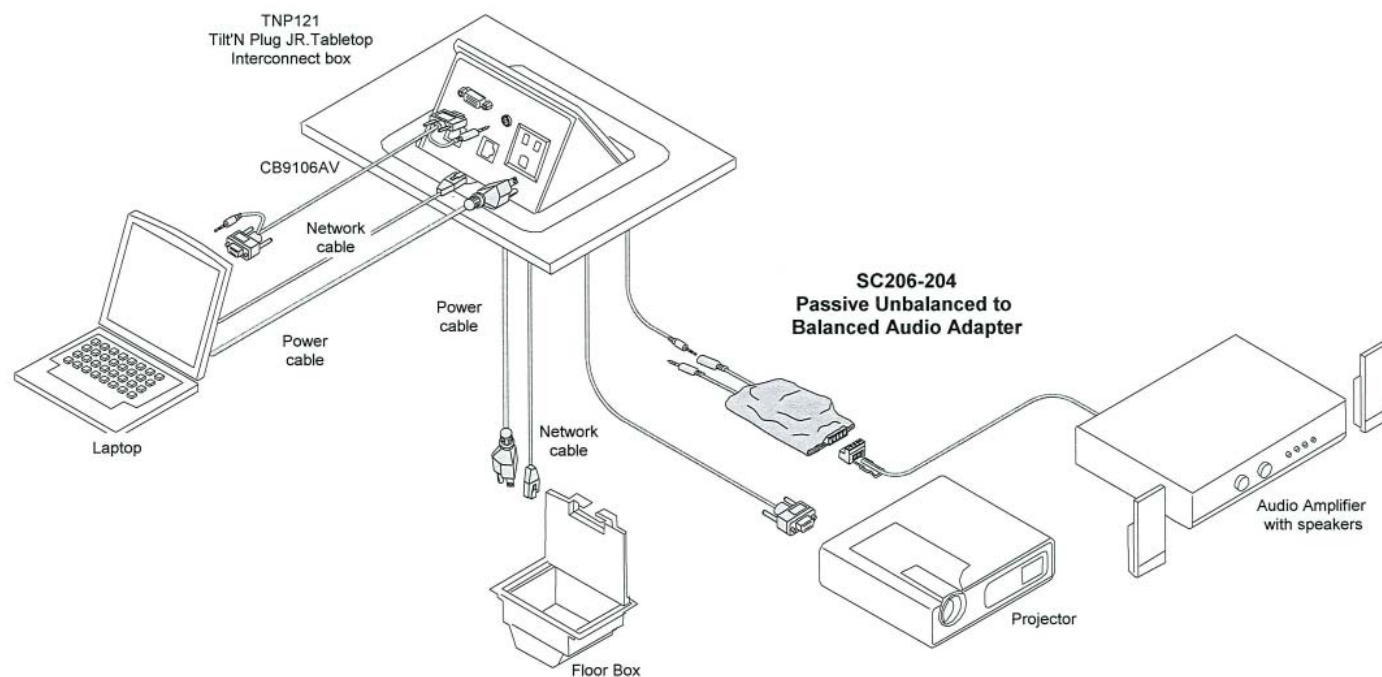
RESPONSE: 200 Hz - 15 kHz

MAX POWER: 100 mW

### WARRANTY

3 Years

## SAMPLE APPLICATION



**ALTINEX**  
Easy to use • Easy to install • Easy to maintain

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