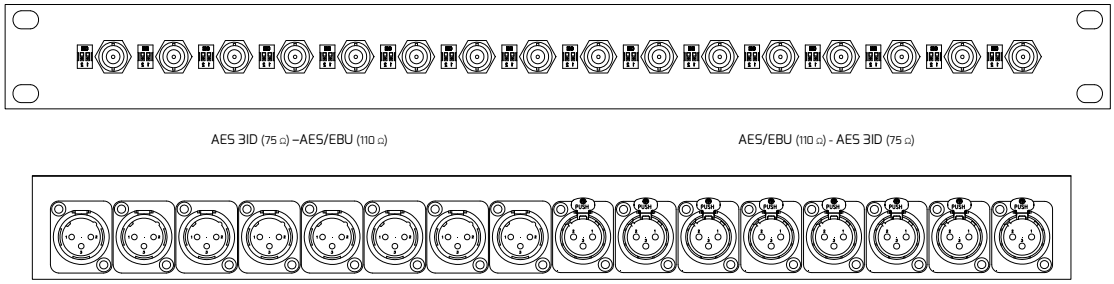
Tech Data

ADAPTORS

DIGITAL AUDIO ADAPTOR AES3ID ↔ AES3 (AES/EBU) AR Format

REF.: PT22694



Description

Passive device which adapts AES/EBU (110 Ω) digital audio signal with XLR connectors and AES 3ID (75 Ω) digital audio signal with BNC connector.

- **AES 3 (AES/EBU):** Communication standard for digital audio transmission through twisted pair cable and XLR 110 Ω connector (length up to 100 m).
- **AES3-ID:** Communication standard for digital audio transmission through coaxial cable and BNC 75 Ω connector (length up to 1 Km).

- Signal level and impedance adaptation from AES 3ID to AES/EBU and vice versa
- The adaptation is made by transformers and attenuators (resistance based)
- DIP switch in each channel to change the ground connection: BNC Gnd + XLR pin 1 y/o BNC Gnd + Chasis

NOTE: this device is passive and it only converts line level and impedance. It does not convert other aspects related to the digital protocol (like sample rate, etc.)

Applications

Installations where is necessary the connection between devices with **different digital audio protocols or standards.**

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Physical Characteristics

BNC connector

Body Material:
Zinc#3/Copper. Nickel finish.
Inner conductor material:
Copper. Gold finish.
Insulation:
PTFE

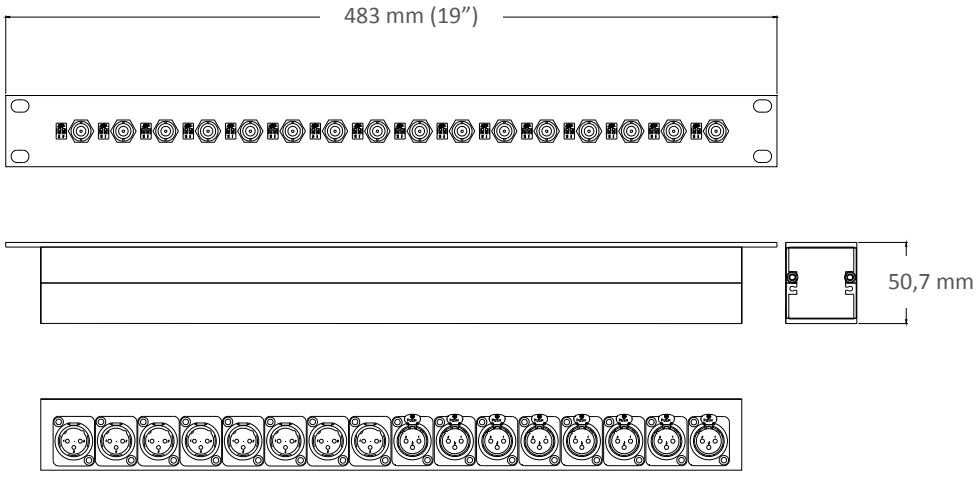
XLR connector

Contact material:
2 µm AG on 2 µm Ni
Case:
Zinc (ZnAl4Cu1)

AR box

Panel:
Extruded aluminium
6063 alloy
T5 treatment
Painted finish: electrostatic powder coating 100-150µ.
Lids:
Calibrated 1.5 mm sheet steel
Serigraphy:
Direct print

Dimensions	483 mm x 50,7 mm 1 RU



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Electrical Characteristics		
AES/EBU – AES 3ID adaptation	Source impedance	110 Ω
	Load impedance	75 Ω
AES 3ID – AES/EBU adaptation	Source impedance	75 Ω
	Load impedance	110 Ω
Transformer ratio	Ratio 1:1.21 (A minimum level of 200 mV in the AES/EBU input)	
Bandwidth	0.1 – 6 MHz	
Sample rate	32-48 KHz	
Level	≤5 V_{pp}	
Insertion Loss	<0.3 dB @ 0.1 MHz a 10 MHz	

DIP configuration		
ON position	1	BNC Gnd + XLR pin 1
	2	BNC Gnd + chassis
1 position	No contact between **BNC Gnd and XLR pin 1**	
2 position	No contact between **BNC Gnd and chassis**	

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Measurements

All tests are performed with calibrated tools according to ***ISO 9001:2015***
Audio measurements are done with ***Audio Precision APx515 analyser.***

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