Signature Series

Maximum Resilience Broadcast Audio

Signature ADDA 1
Stereo Analogue To Digital & Digital To Analogue Converter

ADDA 1 Front

ADDA 1 Rear

FEATURES

- Analogue input & output on 2 x 3 Pin XLR & 2 x phono
- Digital input & output on AES 3 Pin XLR & S/PDIF on phono
- Digital input & output also on optical TOSLINK
- Front panel headphone connection for monitoring

The Signature ADDA 1 is a broadcast specification, bi-directional, analogue to digital, and digital to analogue audio converter.

The analogue inputs and outputs are available separately on balanced XLR connections, or unbalanced RCA phono connections.

The digital inputs and outputs are available separately in three formats:
- 3 pin XLRs using AES
- RCA phono plug using S/PDIF
- optical connectors using TOSlink

The digital output is 24 bit and can be selected to be from 44.1kHz to 192 kHz.

The DARS (Digital Audio Reference Signal) can also be input on a separate 3 pin XLR input, or via the word clock input on a BNC connection.

The front panel features a 6.35mm stereo jack socket for headphones monitoring, with a full size pot to adjust the volume level. A front panel screen shows current operation mode and allows configuration of all unit parameters.

Power is provided by an internal switch mode power supply, with a wide input range. There is also an input for external 12V DC power. The 12V DC input can be connected to the optional Signature PS1external DC Master Power Station, for situations where a redundant power supply is desirable.

Glensound
Keeps Working

Signature ADDA 1
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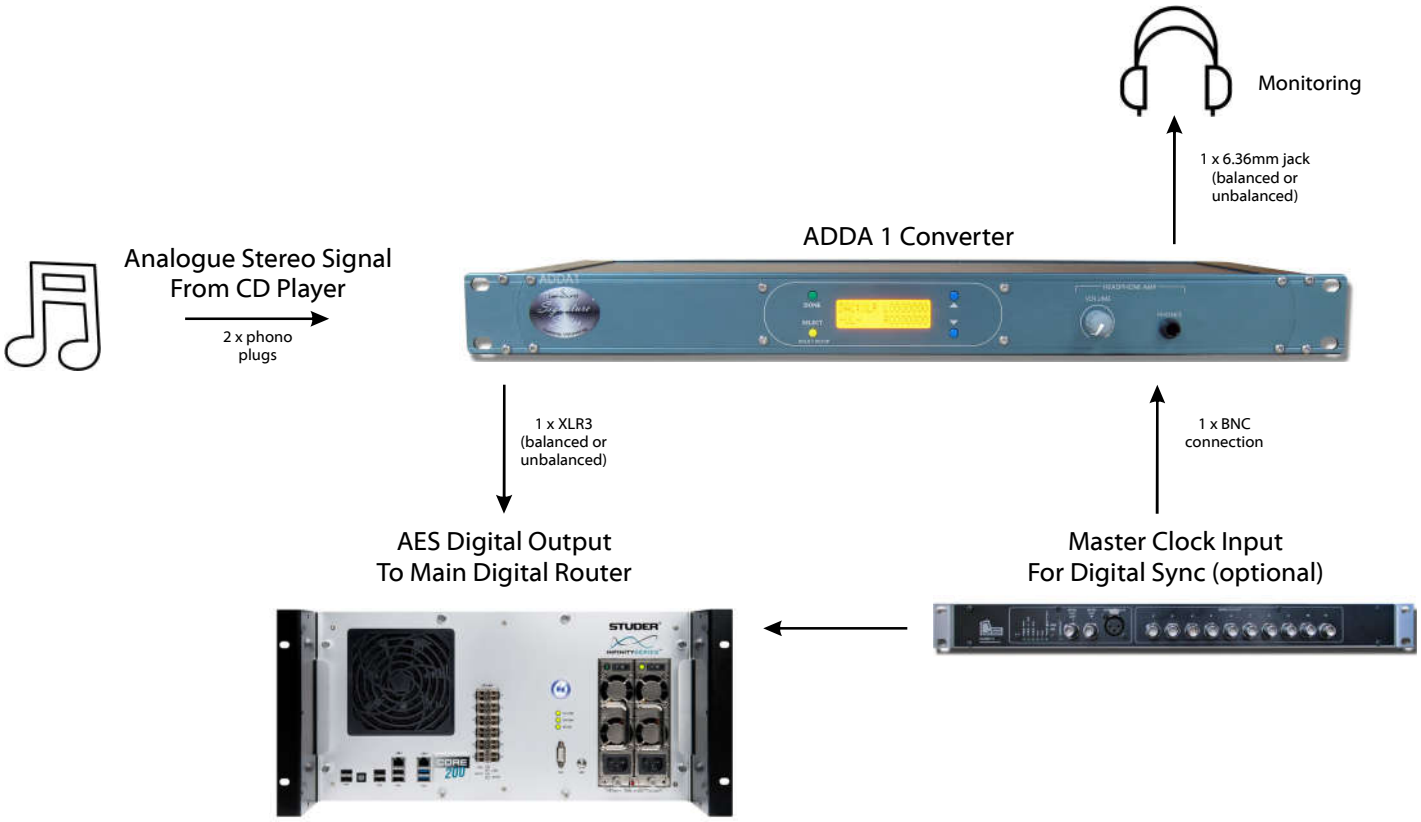
EXAMPLE APPLICATION

Radio Station Analogue To Digital Conversion
Connecting CD Player Into Digital System



A radio station may be largely digitally linked, with all router and mixer connections via AES. If there are no analogue inputs on the system then the Signature ADDA1 can be used to link the CD player into the digital console.

To maintain digital clock rates throughout the station, an optional link can be made to the station master clock for the digital clock reference.

Without this, the digital clock sampling frequency rate can be set on the front panel from 44.1 kHz to 192 kHz.

The stereo analogue outputs from the CD player connect into the 2 x phono analogue inputs on the Signature ADDA 1.

The single XLR output connects the stereo digital AES signal into the master router's digital input for use and routing throughout the station's digital infrastructure.

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EXAMPLE APPLICATION

Digital To Analogue Conversion
Connecting Active Monitors Into A Digital System

If a broadcast facility largely contains digital connections and you need to connect monitors to a studio, you will need a suitable analogue output.

The Signature ADDA 1 can be used to convert the system AES signal into an analogue output for active studio monitors.

An AES output from the master router or console is connected into the ADDA 1 via a single XLR connector. Two analogue XLR connections are taken from the ADDA 1and connected to the active monitors.

A 6.35mm jack socket can be used to connect headphones on the front panel for monitoring.

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SPECIFICATION

AUDIO INPUTS - ANALOGUE

Maximum Input Level
+24dBu

Input Impedance
20k Ohm balanced, 10k Ohm unbalanced

Balanced Input Type
Sophisticated electronically balanced (can be wired unbalanced) on 2 x Neutrik XLR connectors

Unbalanced Input Type
2 x Gold plated RCA phono sockets

AUDIO INPUTS - DIGITAL

Sampling Frequency Rates
44.1kHz to 192kHz

Resolution
Up to 24 bit

0dBFs Equivalents
+18dBU, +12dBu, +6dBu, -0dBu

Physical Inputs
- AES/EBU balanced XLR
- S/PDIF RCA phono
- TOSlink optical

Digital Sync
Input 1: Word clock TTL on BNC
Input 2: DARS (AES/EBU) Neutrik XLR 3 pin socket

AUDIO OUTPUTS - ANALOGUE

Output Impedance
110 Ohms

Balanced Output Connectors
Neutrik 3 pin XLR plugs

Unbalanced Output Connectors
Gold plated RCA phono sockets

Noise
-108dBFs

Frequency Response
>-0.5dB 15Hz to 22kHz @48k sampling

THD+Noise
0.001% @ 1kHz

AUDIO OUTPUTS - DIGITAL

Internal Clock Frequency Rates
44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz

Resolution
24 bit

0dBFs Equivalents
+18dBu, +12dBu, +6dBu, 0dBu

Noise
-108dBFs

Frequency Response
>-0.5dB 15Hz to 20kHz

THD+Noise (ref +8dBu)
- 100Hz = 0.008%
- 1kHz = 0.006%
- 10kHz = 0.009%

Physical Outputs
- AES/EBU balanced XLR
- S/PDIF RCA phono
- TOSlink optical

HEADPHONE OUTPUT

Output Gain Range
+10dB to off

Headphone Impedance
100-1000 Ohms

Maximum Output Level
+18dB into 600 Ohms

POWER

Mains Input
Filtered IEC, 100 to 240VAC
47 - 63Hz

AC Consumption
4 Watts @ 230VAC

DC Input
4 Pin Neutrik XLR plug +/- 12V

DC Consumption
+12V=200mA, -12V=100mA

Internal Mains Fuse
20mm 1A Anti Surge

PHYSICAL

Size
445 x 163 x 44mm (LxDxH) no rack ears
482mm 19" (1RU) with rack ears

Weight
1.35kg

Mechanics
All aluminium construction, anodized and laser etched

Shipping Carton
Rugged export quality cardboard carton
610 x 420 x 130mm LxDxH

Shipping Weight
2.8kg

E & OE

Signature Series

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Signature Series
Standard Features

STANDARD FEATURES

19" Rack Mount Ears

A Signature unit can rack mount in a 1U 19" rack, regardless of the size of the unit. Rack ears are included as standard with every unit.

Front Or Rear Mounting

A Signature unit can be rack mounted via the front panel or if it is more convenient, via the rear panel by simply swapping the rack ears over.

Side Wings For Flat Surface Fixing

A Signature unit has side wings with mounting holes at the top and bottom, allowing flush fixing from above OR underneath.

Neutral Colour Scheme To Complement Equipment Areas

Rack Screws Included

Modern Design

Internal Switch Mode AC Power Supply

A Signature unit has an internal switch mode AC power supply, allowing worldwide power connections from 100-240V via an IEC socket.

12V DC Power Connection

All Signature units (except PS1) have a 4 pin XLR ±12V DC socket for connection to the PS1 Power Station. This can act as the primary or backup power source.

Quick Find Manual

A Signature unit has a QR code attached. This can be scanned to simply and quickly locate the manual and technical information.

CONTACT

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