

Signature Series

Maximum Resilience Broadcast Audio



Signature DAC 1 Stereo Digital To Analogue Converter



DAC 1 Front



DAC 1 Rear

FEATURES

Digital inputs
AES on 3 Pin XLR,
S/PDIF on phono,
& optical TOSlink

Analogue
output on 2 x
balanced
3 pin XLRs

Analogue
output also on 2 x
unbalanced
phonos

Front panel
headphone
connection for
monitoring

The Signature DAC 1 is a broadcast specification stereo digital to analogue audio converter.

The digital inputs are available separately in three formats:

- 3 pin XLR using AES
- RCA phono plug using S/PDIF
- optical connectors using TOSLINK

The analogue outputs are available separately in two formats:

- balanced XLR connections
- unbalanced RCA phono connections

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 12VDC power. The 12VDC input can be connected to the optional Signature PS1 external DC Master Power Station, for situations where a redundant power supply is desirable.



Glensound
Keeps Working

Signature Series

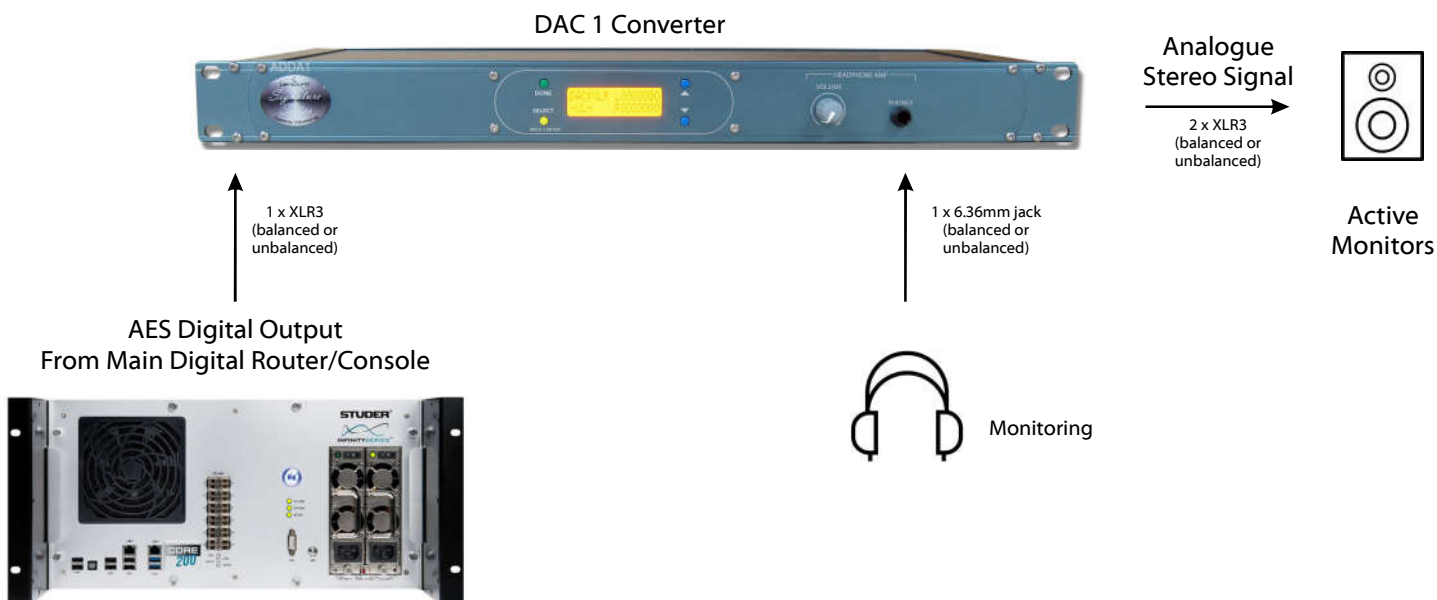
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EXAMPLE APPLICATION

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 DAC 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 DAC 1 via a single XLR connector. Two analogue XLR connections are taken from the DAC1 and 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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Stereo Digital To Analogue Converter

SPECIFICATION

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

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

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

ENVIRONMENTAL

Operating Temperature

0 to +50 °C (32° to 122°F)

Storage Temperature

-20 to +70 °C (-4° to 158°F)

Relative Humidity

0 to 95% non-condensing

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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 $\pm 12V$ 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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