

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

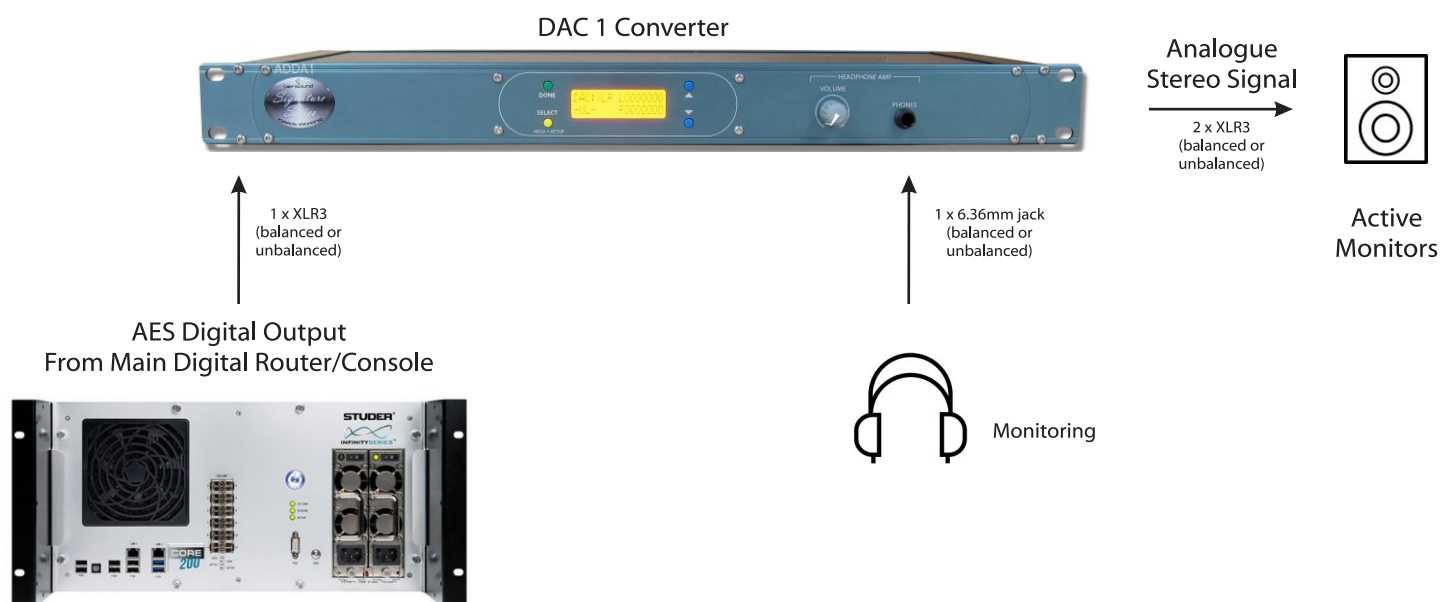
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#### EXAMPLE APPLICATION

### 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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#### 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

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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 Compliment 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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