



## DATASHEET

# D2-Rack

*A world of connectivity*

## OVERVIEW

The DiGiCo D2-Rack is a 48 input, 16 output rack. It features two output expansion slots for expanding the output count to 32. It is available in two versions, either with 48 analogue inputs or 24 analogue inputs and 24 digital inputs.

## KEY FEATURES

48 Inputs (all mic in or 24 mic in and 24 AES)

16 Line Outputs

2 Output expansion card slots for adding up to 16 outputs

Supports either MADI BNC or MADI RJ45

9U Rack Mountable

Rack sharing or digital splits at 48kHz

Gain Tracking™

Redundant PSUs

Flashing screen to indicate system OK from a distance

Locked controls to prevent accidental setting changes

Internal Oscillator

Can be used as a standalone rack



## DiGiCo SD-Range

The SD-Range caters for everything audio: be it the biggest rock and roll show on the planet, a crucial global broadcast, the most sizeable House of Worship application, or an intimate theatre performance, there is an SD console that will tick the box.

Powerful. Versatile. Smart. Desirable.

# TECHNICAL SPECIFICATIONS

## CONNECTIONS

48 x XLR Inputs configurable as:

- 48 x Mic Inputs
- 24 x Mic Inputs and 24 AES/EBU Inputs (from 12 XLR connections)

16 x XLR Outputs

2 x Output Expansion Slots

2 x Redundant PSUs

1 x LCD Menu Screen

4 x Menu Buttons

1 x MADI Main I/O (BNC or Cat5)

1 x MADI Aux I/O (BNC or Cat5)

1 x USB 2.0 Type B port

## SIGNAL PROCESSING

Internal Oscillator

Gain Tracking™

## OPTIONS

BNC or Cat5 (RJ45) MADI

48 in and 16 out or 24in, 24 AES/EBU in and 16 out

Compatible Cards: 8 ch Line Output / 8 ch AES Output / 16 ch Aviom





## A&E SPECIFICATION

The DiGiCo D2-Rack shall have 48 inputs and 16 line outputs. The 48 inputs shall be configurable as either 48 analogue mic inputs or 24 analogue mic inputs and 24 AES inputs (from 12 XLRs). There shall be two output expansion slots for adding up to 16 outputs to the rack. The available output cards shall be an 8 channel line output card, an 8 channel AES output card and a 16 channel Aviom card. The front panel shall have 2 sets of MADI I/O ports, available as either BNC or Cat5 (RJ45). At 48kHz, this shall allow sharing of the rack between any two DiGiCo consoles or digital splits for recording. At 96kHz, this shall allow all inputs and outputs to be accessed by the console with the use of both MADI ports. There shall also be a USB Type B port for updating rack firmwares, and two redundant PSUs. The USB port shall also allow connection to a computer running DiGiCo Control software. The software shall allow control over the sample rate, input gains, pads and phantom power, and show firmware versions running on the rack. DiGiCo Control software shall make it possible to use the rack as a standalone device without a DiGiCo console.

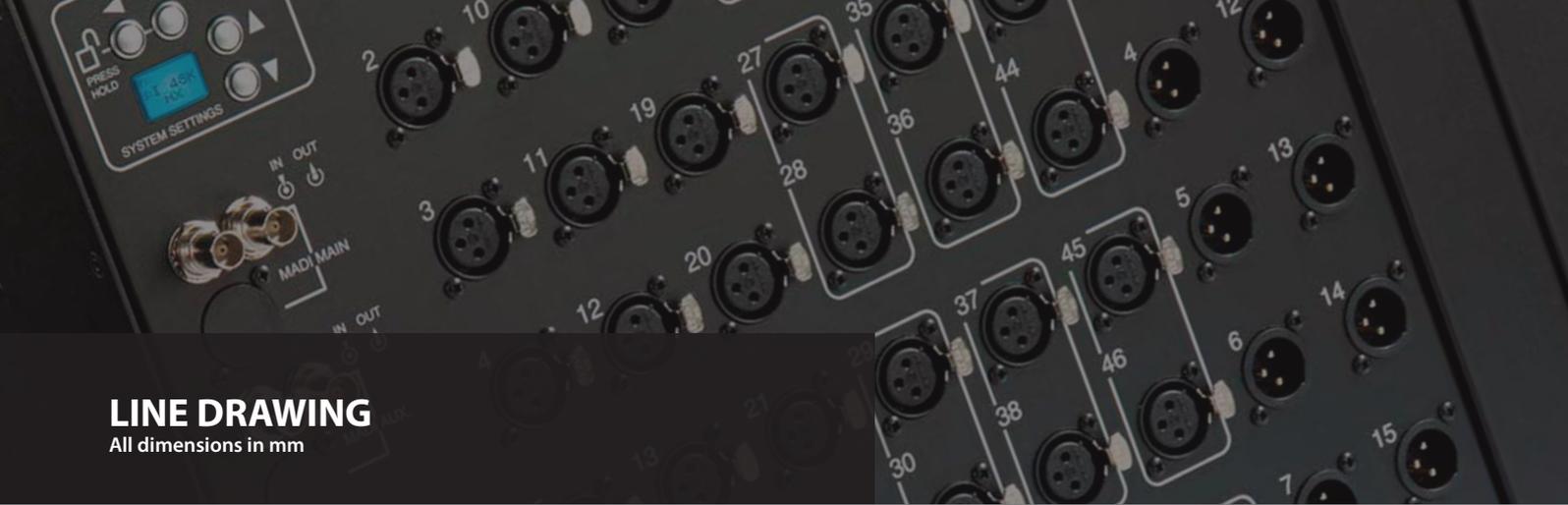
The D2-Rack shall have an LCD menu screen on the front. The main screen shall display what input the rack is receiving from, what it is syncing to, the sample rate and the valid sync sources available. When the rack is receiving a valid sync source, the screen shall flash between white and green so that it can be seen from a distance that the rack is syncing correctly. The screen shall be locked until the left and right buttons are both pressed and held for 2 seconds. The up and down buttons shall allow the user to scroll through the different menu items. There shall be a set of menu items that display system information, showing the PSU info and card firmwares. There shall also be menu items to select the sync source and if the sync source is set to internal, the internal sample rate of the rack. There shall also be a menu option that allows an oscillator signal to be sent to all rack outputs. The signal level shall be chosen between -96dB and 0dB and the signal frequency shall be chosen between 20Hz and 22kHz.

The dimensions of the D2-Rack shall be: 482.6 (w) x 248 (d) x 399.2 (h) mm  
The weight of the D2-Rack shall be: 13kg

### AUDIO SPECIFICATIONS

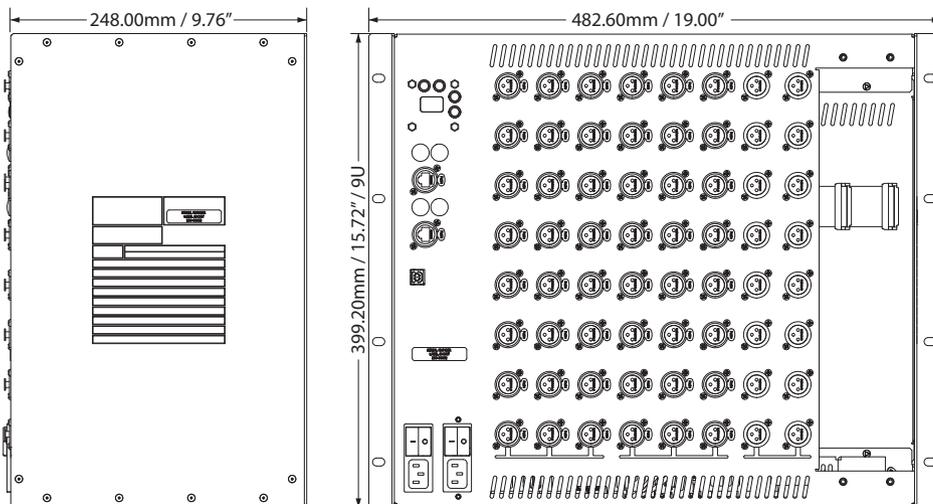
Sample Rate: 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176kHz or 192kHz
Crosstalk (100 - 10kHz): >90dB
AES Input Frequency Response (10Hz - 20kHz): ±0.1dB
Analogue Input Frequency Response (10Hz - 20kHz): ±1dB
AES Noise: <-140dB
Analogue EIN (150Ω): 127dB
Dynamic Range: 113dB
Input Impedance: 2500Ω (2650Ω with pad)
CMRR @ 1kHz (150Ω Z <sub>in</sub> ): >71dB
AES Distortion @ -1dBFS Gain (100Hz - 10kHz): <0.00015%
Analogue Distortion @ 30dBFS Gain (100Hz - 10kHz): <0.01%
AES Cable Length: OK over 100m
Phantom Power: 48.3V
Oscillator Level: -96dB to 0dB
Oscillator Frequency: 20Hz to 22kHz
Gain Range: -10dB to +60dB
System Delay: ≈2ms @ 48kHz or ≈1.1ms @ 96kHz
Maximum Input Level: +22dBu
Maximum Output Level: +22 dBu

In a world as competitive for engineers as it is for console owners, you want the best tools you can lay your hands on. You also want a console and audio tools as well thought out for every major application as they are designed for the art and science of sound engineering.



## LINE DRAWING

All dimensions in mm



### PHYSICAL

Dimensions: 482.6mm (w) x 248mm (d) x 399.2mm (h)

Weight: 13kg

Power Requirements: 100-240 VAC, 47-440Hz, 200VA MAX

Redundancy: Internal PSUs x 2

Product Code: X-D2-AN-M (All analogue inputs with BNC MADI)

Product Code: X-D2-DI-M (Analogue and digital inputs with BNC MADI)

Product Code: X-D2-AN-C (All analogue inputs with MADI RJ45)

Product Code: X-D2-DI-C (Analogue and digital inputs with MADI RJ45)

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