MQ-Rack
Compact. Reliable. MADI.

OVERVIEW

The DiGiCo MQ-Rack is a 48 input, 24 output rack with BNC MADI connectivity. It also features 4 switchable XLR outputs that can either be analogue outputs or AES outputs, giving a maximum of 28 output channels.

KEY FEATURES

48 Mic Inputs

Up to 24 Line Outputs

4 Switchable AES Outputs

BNC MADI Connectivity

Rack sharing or digital splits at 48kHz

6U Rack Mountable

Gain Tracking™

Redundant PSUs

Flashing screen to indicate system OK from a distance

Locked controls to prevent accidental setting changes

Internal Oscillator

DiGiCo Quantum

Quantum is developed with seventh-generation FPGA devices that further expand audio processing power and ultimately allows DiGiCo to provide its users with an unrivalled amount of additional flexibility.

Quantum. Power. Connectivity. Flexibility

TECHNICAL SPECIFICATIONS

CONNECTIONS

48 x XLR Mic Inputs

20 x XLR Line Outputs

4 x XLR Switchable AES/Line Outputs

1 x TFT LCD Menu Screen

4 x Menu Buttons

1 x MADI Main I/O BNC

1 x MADI Aux I/O BNC

2 x Redundant PSUs

1 x USB 2.0 Type B port

SIGNAL PROCESSING

Internal Oscillator

Gain Tracking™

A&E SPECIFICATION

The DiGico MQ-Rack shall have 48 inputs and 20 line outputs. It shall have an additional 4 outputs shall be configurable as either analogue line outputs or AES digtal outputs. The rear panel shall have 2 sets of BNC MADI I/O ports. 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, and two redundant PSUs.
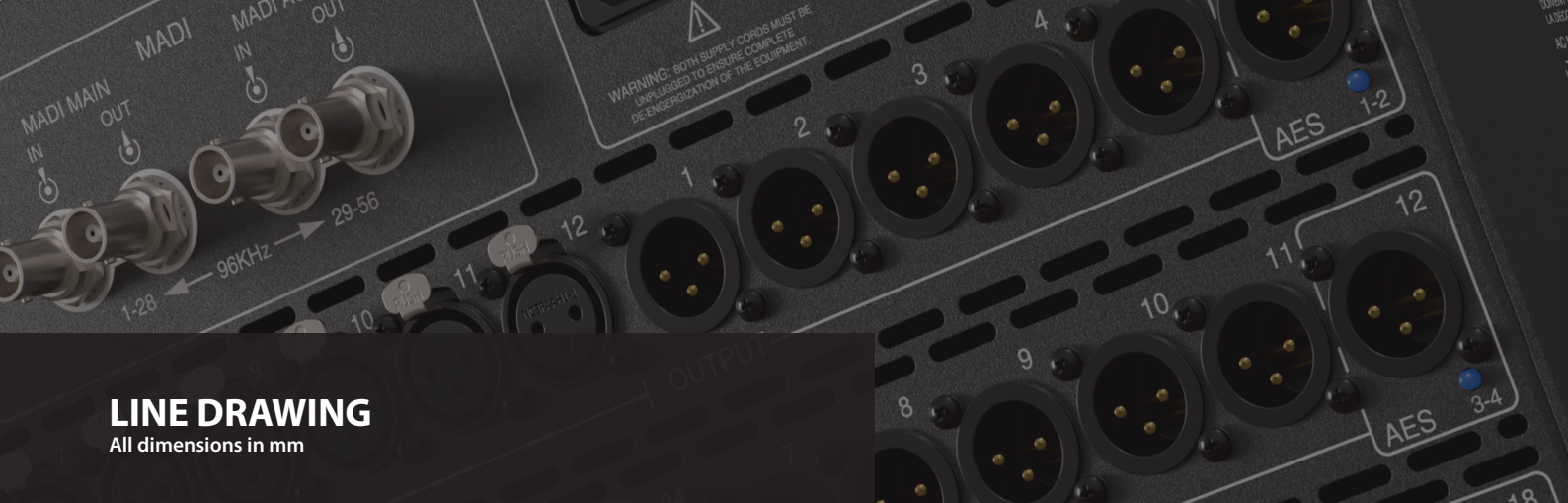
The MQ-Rack shall have a TFT LCD menu screen on the rear. When the rack is receiving a valid sync source, the screen shall flash between white and green so that it can be seen from a distance that the rack is syncing correctly. The screen shall be locked until the left and right buttons are both pressed and held for 2 seconds. The left and right 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 rack firmwares. There shall also be menu items to switch the end 4 outputs between analogue and AES, select the sync source and if the sync source is set to internal, the internal sample rate of the rack, and defaulting 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 MQ-Rack shall be: 482.7 (w) x 253 (d) x 265.9 (h) mm
The weight of the MQ-Rack shall be: 11kg
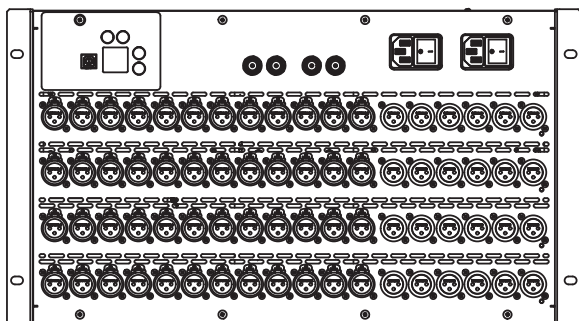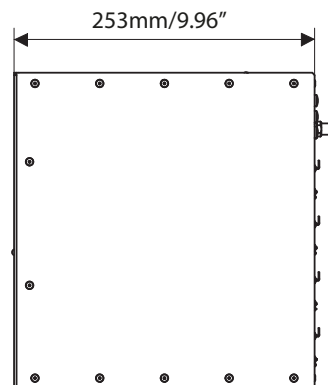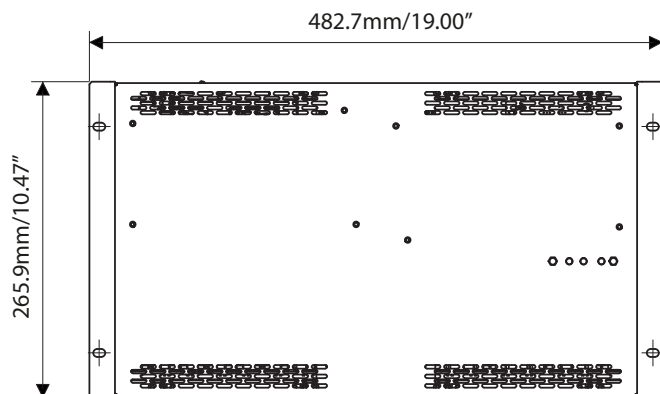
AUDIO SPECIFICATIONS

Sample Rate: 48kHz or 96kHz
Crosstalk: TBC
Analogue Input Frequency Response: TBC
Analogue EIN: TBC
Dynamic Range: TBC
Input Impedance: TBC
CMRR: TBC
AES Distortion: TBC
Analogue Distortion: TBC
AES Cable Length: TBC
Phantom Power: TBC
Oscillator Level: -96dB to 0dB
Oscillator Frequency: 20Hz to 22kHz
Gain Range: TBC
System Delay: TBC
Maximum Input Level: TBC
Maximum Output Level: TBC

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

482.7mm/19.00"

265.9mm/10.47"

253mm/9.96"

PHYSICAL

Dimensions: 482.7mm (w) x 253mm (d) x 265.9mm (h)	
Weight: 11kg	
Power Requirements: 100-240V~, 50-60Hz, 2.0A	
Redundancy: PSUs x 2	
Product Code: X-MQ-RACK	

www.digico.biz

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