

# **MIM088**

DIGITAL MATRIXES Installation Digital Matrix



### **PRODUCT OVERVIEW**

MIM088 is an 8 in / 8 out digital audio matrix, fully programmable and linkable to a second unit to become a 16x16 matrix, with real routing from any input to any output.

#### **KEY FEATURES**

• Expandable to 16 inputs / 16 outputs to become a real 16 x 16 matrix

• Fully programmable and controllable via EclerNet software

• UCP (User Control Panels) remote control system, compatible with WPmSCREEN and third-party devices, such as computers, tablets, smartphones, etc.

• TP-NET protocol compatible, for third-party control systems integration

• A few processing bits: signal generator, delays, full parametric EQ filters at inputs and

outputs, inputs noise gate, level, mute, phase, vu-meters, outputs compressor / limiter,

ducking (priority & overriding), virtual and physical paging stations management,

automatic mixer function, presets save & recovery, scheduled events triggering

• FREQUENCY SHIFTER function to avoid acoustic feedback (Larssen Effect), available for each INPUT channel.

## APPLICATIONS

• Centralized, distributed or hybrid fixed installation

- BGM & Paging solutions
- Conferencing (automatic mixing)
- P.A. management
- Installations requiring remote total control
- Live sound (WiFi management is possible)

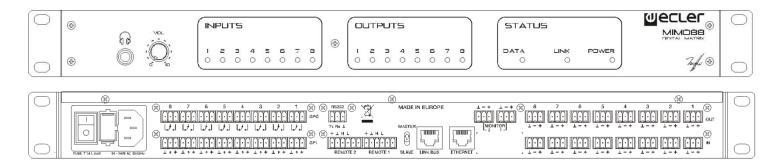
## CERTIFICATIONS

- EN60065:2014
- EN55103-1:2009
- EN55103-2:2009
- 2006/95/EC
- 2004/108/CE



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#### **MECHANICAL DIAGRAMS**



#### **TECHNICAL DATA**

DSP	
DSP	2 x 32/64bit
Sampling Rate	48kHz
Latency IN to OUT	<2.9ms (+1ms for 16x16)
Converters	
Resolution	24bit AKM
Dynamic Range	AD:110dB, DA: 115dB
Analog	
8+8 Input/Output	Terminal block (Symmetrical)
2 monitor output	Terminal block (Symmetrical)
Headphones related	Jack ¼
Analog Input headroom	+27dBV = +30dBu
Max. output level	+18dBV = +21dBu
Input sensitivity @ 0dBV out	From -50dBV to +10dBV in 0.5dB step
Input Impedance	Balanced, >4k $\Omega$
Phantom power	+42VDC, 5mA max. software switched
Headphones	>200mW/200Ω
Frequency response (-3dB)	5Hz to 24kHz
Flatness	better than ±0.1dB
THD+Noise @ 1kHz, 0dBV input (line)	<0.004%
THD+Noise @ 1kHz, -40dBV input (mic.)	<0.008%
Output Noise floor FFT (20Hz - 20kHz)	better than 115dB
Interchannel crosstalk (20Hz - 20kHz)	better than 90dB (100dB typ.)
Channel Leakage (20Hz - 20kHz)	better than 100dB (115dB typ.)
CMRR 20Hz- 20kHz	65dB typ.
Processing	
Input Level (x8)	Range: from Off to 0 dB
	Mute: Yes
	Signal Polarity reverse: Yes
	Metering: VU+clip pre & post fader
Output Level (x8)	Range: from Off to 0 dB
	Mute: Yes
	Solo: Yes
	Signal Polarity reverse: Yes
	Metering: VU+clip pre & post fader
Input Delay (x8)	from 0 to 1000 ms
	Units: sec/ms/m/cm.
Output Delay (x8)	from 0 to 1000 ms
	Units: sec/ms/m/cm.
Parametric Eq. Types	Bypass / On-Off all channels
(4 max per input)	Param Eq. Freq: 20Hz-20kHz
(8 max per output in 8x8 mode)	Gain: -60/+12 dB
(4 max per output in 16x16 mode)	Q: 0.3 to 200
	Low & High Shelf 6/12 dB/oct
	Low & High Pass 6/12 dB/oct
	All Pass 1/2 order
High & Low pass output Crossover filters	Bypass On-Off
(x8)	Butterworth in 6/12/18/24 dB/oct
	Bessel in 12/18/24 dB/oct
	Linkwitz-Riley in 12/24 dB/oct

## ECLER TECHNICAL DATA SHEET



Input Noise Gate (x8)	Bypass On-Off
	Threshold: from -80 dBV to +18 dBV
	Depth: 0 dB to 80 dB Knee: hard / soft
	Attack time: from 0,1 ms. to 500 ms.
	Hold time: from 10 ms. to 3000 ms.
	Release time: from 10 ms. to 1000 ms.
Input Compressor / Limiter (x8)	Bypass On-Off
	Threshold: from –36 dBV to +18 dBV
	Ratio: 1:1 to inf:1 (limiter)
	Knee: hard / soft Attack time: from 0,1 ms. to 500 ms.
	Release time: from 10 ms. to 1000 ms.
	Make up gain: from 0 to +10 dB
Input Frequency Shifter	Available on all inputs. ON / OFF function
Output Limiter (x8)	Bypass On-Off
	Threshold: from –36 dBV to +18 dBV
	Ratio: inf:1 (limiter)
	Attack time: from 0,1 ms. to 500 ms. Release time: from 10 ms. to 1000 ms.
Built in Signal Generator	Sine: from 20 Hz to 20 kHz
built in Signal Generator	Polarity: from 20 Hz to 20 kHz
	White noise
	Pink noise
Stereo Linking	Adjacent input / output channels
	Linked processing
	Matrix routing linked
Mix Matrix	Size: 8x8 (1-MIM088) Size: 16x16 (2-MIM088 with expan. link bus)
	Vol: Input, Output, Crosspoint
	Mute: Set/Clear individual, row, column, all
	Input /output Mono/stereo selector
	Meter: Input /output VU and clip
Pager	Input: IN1 to IN8 (or to IN16 in 16x16)
	Priorities: 4(1max) 4 (min)
	Depth: 0 dB to 80 dB
	Attack time: from 0,1 ms. to 500 ms. Release time: from 10 ms. to 1000 ms.
	Chime Source: None, Melody 1, Melody 2 Chime Volume: from –12 dB to 0 dB
Mechanical	Chime Source: None, Melody 1, Melody 2 Chime Volume: from –12 dB to 0 dB
Dimensions	Chime Source: None, Melody 1, Melody 2 Chime Volume: from –12 dB to 0 dB 482.6x44x266.5mm
Dimensions Weight	Chime Source: None, Melody 1, Melody 2 Chime Volume: from –12 dB to 0 dB
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Dimensions Weight Supply	Chime Source: None, Melody 1, Melody 2 Chime Volume: from –12 dB to 0 dB 482.6x44x266.5mm
Dimensions Weight Supply Mains	Chime Source: None, Melody 1, Melody 2 Chime Volume: from –12 dB to 0 dB 482.6x44x266.5mm 3.5kg 90-264VCA 47-63Hz
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Operating System	Windows® 10; W8.1; W8; W7; Vista (SP1); XP Prof. (SP3); W2000 Prof. (SP4)
Minimum EclerNet System Requirements	Pentium IV ® 1GHz
	512MB RAM
	40MB HDD free space
	800x600 pixels & 16bits color display
	10/100/1G Ethernet Network card

All product characteristics are subject to variation due to production tolerances. NEEC AUDIO BARCELONA S.L. reserves the right to make changes or improvements in the design or manufacturing that may affect these product specifications. Motors, 166-168 08038 Barcelona - Spain - (+34) 932238403 information@ecler.es **www.ecler.com**