

## MIMO88SG

DIGITAL MATRIXES

*Installation Digital Matrix*



### PRODUCT OVERVIEW

MIMO88SG (MIMO88 SINGLE) is an EclerNet digital audio device that keeps the heart and soul of the standard MIMO88, its main features and its audio quality, to become a simplified and cost-effective version of this acclaimed digital matrix.

### KEY FEATURES

- 8x8 digital matrix (not expandable)
- 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, paging and ducking (priority & overriding), virtual and physical paging stations management, presets save & recovery, scheduled events triggering, etc.
- FREQUENCY SHIFTER function to avoid acoustic feedback, available in 4 inputs

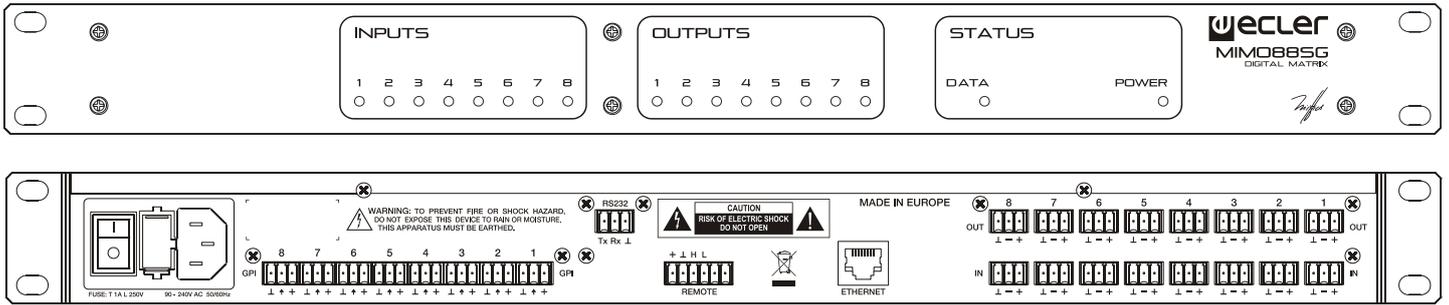
### APPLICATIONS

- Centralized, distributed or hybrid fixed installation
- BGM & Paging solutions
- Conferencing (automatic mixing)
- P.A. management
- Installations requiring remote total control
- Live sound (Wi-Fi management is possible)

### CERTIFICATIONS

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

MECHANICAL DIAGRAMS



TECHNICAL DATA

<b>DSP</b>	
DSP	2 x 32/64bit
Sampling Rate	48kHz
Latency IN to OUT	<2.9ms
<b>Converters</b>	
Resolution	24bit AKM
Dynamic Range	AD:110dB, DA: 115dB
<b>Analogue</b>	
x8 Input/Output	Terminal block (Symmetrical)
Analogue Input headroom	+27dBV = +30dBu
Max. output level	+18dBV = +21dBu
Input sensitivity @ 0dBV out	From -50dBV to +10dBV in 0.5dB step
Input Impedance	Balanced, >4kΩ
Phantom power	+42VDC, 5mA max. software switched
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.
<b>Processing</b>	
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
Output Gain	Range: from 0 to +6 dB
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 (4 max per input) (6 max per output)	Bypass / On-Off all channels Param Eq. Freq: 20Hz-20kHz; Gain: -60/+12 dB; 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 (x8)	Butterworth in 6/12/18/24 dB/oct Bessel in 12/18/24 dB/oct Linkwitz-Riley in 12/24 dB/oct

<b>Input Noise Gate (x8)</b>	Bypass On-Off Threshold: from -80 dBV to +18 dBV Depth: 0 dB to 80 dB 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.
<b>Input Compressor / Limiter (x8)</b>	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
<b>Input Frequency Shifter (x4) (Feedback Loop Reducer)</b>	Available on IN1 to IN4. ON / OFF function
<b>Output Limiter (x8)</b>	Bypass On-Off Threshold: from -36 dBV to +18 dBV Attack time: from 0,1 ms. to 500 ms. Release time: from 10 ms. to 1000 ms.
<b>Built in Signal Generator</b>	Sine: from 20 Hz to 20 kHz Polarity: from 20 Hz to 20 kHz White noise Pink noise
<b>Stereo Linking</b>	Adjacent input / output channels Linked processing Matrix routing linked
<b>Mix Matrix</b>	Size: 8x8 Vol: Input, Output, Crosspoint Mute: Set/Clear individual, row, column, all Input /output Mono/stereo selector Meter: Input /output VU and clip
<b>Pager (x3)</b>	Input: IN1 to IN8 Priorities: 3 (1max, 3 min) Depth: 0 dB to 80 dB Attack time: from 5 ms. to 2000 ms. Release time: from 50 ms. to 3000 ms. Chime Source: None, Melody 1, Melody 2 Chime Volume: from -12 dB to 0 dB
<b>Mechanical</b>	
<b>Dimensions</b>	482.6x44x266.5mm
<b>Weight</b>	3.5kg
<b>Supply</b>	
<b>Mains</b>	90-264VCA 47-63Hz
<b>Power consumption</b>	45VA
<b>Miscellaneous</b>	
<b>Management Connectivity</b>	Ethernet Base-Tx 10/100Mb Auto X-Over CAT5 up to 100m.
<b>Remote Bus</b>	Over twisted pairs; up to 1km (see specific specs.)
<b>GPI</b>	8, from 0 to 10VDC or TTL level
<b>Aux. Power Supply for Remotes &amp; GPI</b>	+12VDC, 1.2A. max. (short circuit protected)
<b>Time and date retention (battery)</b>	100 hours aprox. (ambient temperature dependant)
<b>RTC accuracy</b>	±1 minute / month
<b>SOFTWARE</b>	
<b>EclerNet Manager</b>	From v3.03r4 version