

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

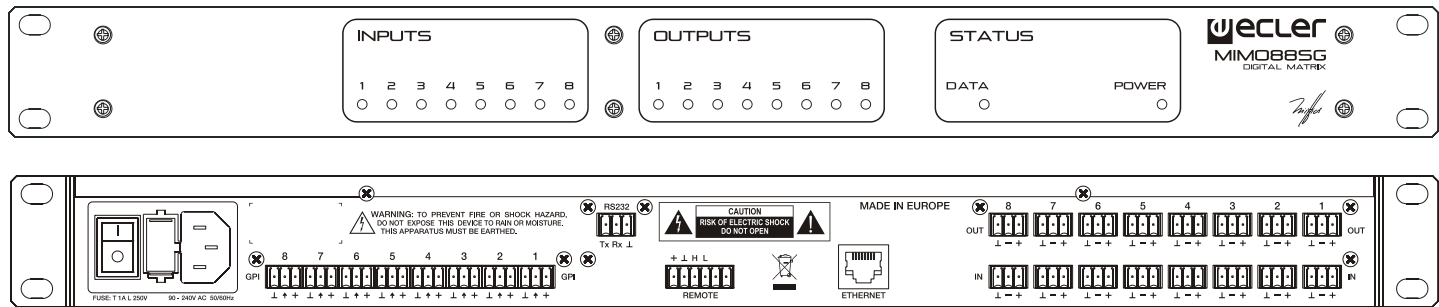
APPLICATIONS

- 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

DSP		
DSP	2 x 32/64bit	
Sampling Rate	48kHz	
Latency IN to OUT	<2.9ms	
Converters		
Resolution	24bit AKM	
Dynamic Range	AD:110dB, DA: 115dB	
Analogue		
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.	
Processing		
Input Level (x8)	Range: from Off to 0 dB	
	Mute: Yes	
	Signal Polarity reverse: Yes	
Output Level (x8)	Metering: VU+clip pre & post fader	
	Range: from Off to 0 dB	
	Mute: Yes	
Output Gain	Solo: Yes	
	Signal Polarity reverse: Yes	
	Metering: VU+clip pre & post fader	
Input Delay (x8)	Range: from 0 to +6 dB	
	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	
High & Low pass output Crossover filters (x8)	Low & High Pass 6/12 dB/oct	
	All Pass 1/2 order	
	Bypass On-Off	
	Butterworth in 6/12/18/24 dB/oct	
	Bessel in 12/18/24 dB/oct	
	Linkwitz-Riley in 12/24 dB/oct	

Input Noise Gate (x8)	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.
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 (x4) (Feedback Loop Reducer)	Available on IN1 to IN4. ON / OFF function
Output Limiter (x8)	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.
Built in Signal Generator	Sine: from 20 Hz to 20 kHz 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 Vol: Input, Output, Crosspoint Mute: Set/Clear individual, row, column, all Input /output Mono/stereo selector Meter: Input /output VU and clip
Pager (x3)	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
Mechanical	
Dimensions	482.6x44x266.5mm
Weight	3.5kg
Supply	
Mains	90-264VCA 47-63Hz
Power consumption	45VA
Miscellaneous	
Management Connectivity	Ethernet Base-Tx 10/100Mb Auto X-Over CAT5 up to 100m.
Remote Bus	Over twisted pairs; up to 1km (see specific specs.)
GPI	8, from 0 to 10VDC or TTL level
Aux. Power Supply for Remotes & GPI	+12VDC, 1.2A. max. (short circuit protected)
Time and date retention (battery)	100 hours aprox. (ambient temperature dependant)
RTC accuracy	±1 minute / month
SOFTWARE	
EclerNet Manager	From v3.03r4 version