

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

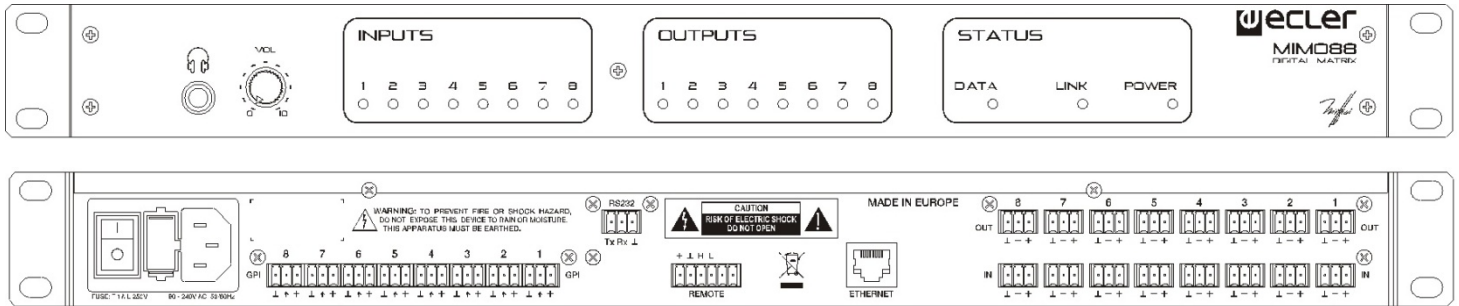
APPLICATIONS

- Centralized, distributed or hybrid fixed installation
- BGM & Paging solutions
- Conferencing (automatic mixing)
- P.A. management
- Installations requiring remote total control
- Live sound (WiFi 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 (+1ms for 16x16)
Converters	
Resolution	24bit AKM
Dynamic Range	AD:110dB, DA: 115dB
Analog	
8+8 Input/Output	Terminal block (Symmetrical)
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, >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 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 (4 max per input) (8 max per output in 8x8 mode) (4 max per output in 16x16 mode)	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)	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 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. 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 Compressor / 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. Sine: from 20 Hz to 20 kHz Polarity: from 20 Hz to 20 kHz White noise Pink noise
Output Limiter (x8)		
		Adjacent input / output channels Linked processing Matrix routing linked Size: 8x8 Vol: Input, Output, Crosspoint Mute: Set/Clear individual, row, column, all Input /output Mono/stereo selector Meter: Input /output VU and clip
Built in Signal Generator		
		Input: IN1 to IN8 Priorities: 3(1max) 3 (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
Stereo Linking		
Mix Matrix		
Pager		
Mechanical		
	Dimensions	482.6x44x266.5mm
	Weight	3.5kg
Supply		
	Mains	90-264VCA 47-63Hz
	Power consumption	75VA
Miscellaneous		
	Management Connectivity	Ethernet Base-Tx 10/100Mb Auto X-Over CAT5 up to 100m.
	Expansion LINK BUS (16x16 ch.)	Proprietary over CAT5, Xover cable up to 100m.
	Remote Bus	2, 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)	1 month approx. (ambient temperature dependant)
	RTC accuracy	±1 minute /year
SOFTWARE		
		Realtime full GUI of all functions and controls thru Ethernet with interactive graphical display Grouping mode channels or devices Grouping of other groups Automated report generation Up to 256 devices on same net Autodiscovery devices feature Routing capability through NAT gateways Real time metering at input/output (DSP) Device "Finder" feature Save & Recall setup and preset functions Firmware update capability thru Ethernet Password protection (device & project with two user levels) Default Network configuration: IP: 192.168.0.100 Mask: 255.255.255.0 Gate: 192.168.0.1 UDP Port: 2210
	EclerNet Software	
	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