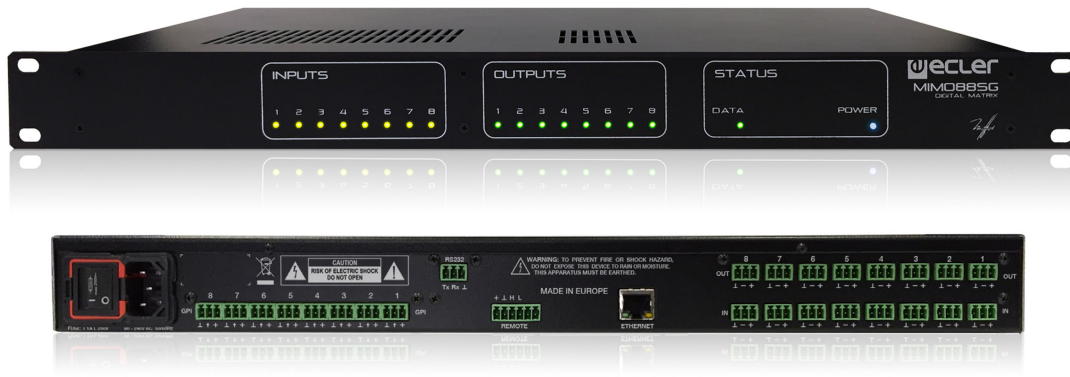


8X8 AUDIO DIGITAL MATRIX



Accessories

- **MPAGE16** touch-sensitive digital paging station
- **WPTOUCH** touch-sensitive digital wall panel control
- **WPmSCREEN** touch-screen wall panel
- **WPmMIX-T, MICRO+LINE** wall panel mixer with talk-over function
- **WPm**, series wall panel controls

Recommended amplification

- **MPA**, multichannel series
- **NXA**, multichannel networkable series
- **DPA** and **GPA** stereo series
- **HZA**, multichannel 100V line series
- **HSA**, 100V line series

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)
- 8 MIC/LINE balanced inputs and 8 balanced outputs, with mono or stereo management
- Ethernet and RS-232 communication interfaces
- 8 GPI ports (General Purpose Inputs): 0-10 VDC control inputs assignable to MIMO functions, like volume control, MUTE function, preset recall, etc.
- Digital control bus to connect up to 16 WPTOUCH units (digital touch-sensitive wall panel) and 3 MPAGE16 units (digital & touch sensitive paging station)
- Fully programmable and controllable via EclerNet software (directly wired to a PC or by means of an Ethernet network)
- 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 feedback loops, available in 4 inputs
- STANDARD and CONFERENCE firmware versions available

Applications

- A/V corporate, retail and education applications
- BGM & Paging solutions, with message priorities and source/volume independent selection
- Integration in installation global control systems
- Conferencing
- P.A. management (multi-way speaker processing, delay adjustment, etc.)

Technical Characteristics

MIMO88SG

DSP	DSP	2X 32/64 bit
	Sampling rate	48kHz
	Latency IN to OUT	<2.9ms [+1ms for 16 x 16]
Converters	Resolution	24 bit AKM
	Dynamic Range	AD: 110dB, DA: 115dB
	8+8 Input/Output	Terminal block [Symmetrical]
Analog	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 24 kHz
	Flatness	Better than ±0.1dB
	THD+Noise @ 1kHz, 0dB 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

MIMO88SG

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 (x8)	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.
	Bypass / On-Off all channels
Parametric Eq. Types [4 max per input]	Param Eq. Freq: 20Hz-20kHz;
	Gain: -60/+12 dB
	Q: 0.3 to 200
(6 max per output)	Low & High Shelf 6/12 dB/oct
	Low & High Pass 6/12 dB/oct
	All Pass 1/2 order

Processing

MIMO88SG

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
Input Noise Gate (x8)	Linkwitz-Riley in 12/24 dB/oct
	Bypass On-Off
	Threshold: from -80 dBV to +18 dBV
Input Compressor / Limiter (x8)	Depth: 0 dB to 80 dB
	Knee: hard / soft
	Attack time: from 0.1 ms. to 500 ms.
Input Frequency Shifter (x4) [Feedback Loop Reducer]	Hold time: from 10 ms. to 3000 ms.
	Release time: from 10 ms. to 1000 ms.
	Bypass On-Off
Output Limiter (x8)	Threshold: from -36 dBV to +18 dBV
	Ratio: 1:1 to inf:1 (limiter)
	Knee: hard / soft
Built in Signal Generator	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.
Stereo Linking	Bypass On-Off
	Threshold: from -36 dBV to +18 dBV
	Ratio: 1:1 to inf:1 (limiter)
Mix Matrix	Knee: hard / soft
	Attack time: from 0.1 ms. to 500 ms.
	Release time: from 10 ms. to 1000 ms.
Pager (x3)	Make up gain: from 0 to +10 dB
	Available on IN1 to IN4.
	ON / OFF function

Processing

MIMO88SG

Output Limiter (x8)	Bypass On-Off
	Threshold: from -36 dBV to +18 dBV
	Ratio: inf:1 (limiter)
Built in Signal Generator	Attack time: from 0.1 ms. to 500 ms.
	Release time: from 10 ms. to 1000 ms.
	Sine: from 20 Hz to 20 kHz
Stereo Linking	Polarity: from 20 Hz to 20 kHz
	White noise
	Pink noise
Mix Matrix	Adjacent input / output channels
	Linked processing
	Matrix routing linked
Pager (x3)	Size: 8x8
	Vol: Input, Output, Crosspoint
	Mute: Set/Clear individual, row, column, all
Stereo Linking	Input/output Mono/stereo selector
	Meter: Input/output VU and clip
	Input: IN1 to IN8
Mix Matrix	Priorities: 3 (1 max, 3 min)
	Depth: 0 dB to 80 dB
	Attack time: from 0.1 ms. to 500 ms.

MIMO88SG

Processing	Pager (x3)	Release time: from 10 ms. to 1000 ms.
		Chime Source: None, Melody 1, Melody 2
		Chime Volume: from -12 dB to 0 dB
Mechanical	Dimensions	482.6x44x266.5 mm
	Weight	3.5 kg
	Mains	90-264VCA 47-63Hz
Supply	Power consumption	75VA
	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.)
Miscellaneous	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 approx. (ambient temperature dependent)
SOFTWARE	RTC accuracy	±1 minute / month
	EclerNet Manager	From v3.03r4 version.