MIMO1212SG

DIGITAL MATRIXES

Installation Digital Matrix

PRODUCT OVERVIEW

MIMO1212SG is a 12 in / 12 out digital audio matrix, fully programmable 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

- 12 x 12 digital matrix (not expandable).
- Fully programmable and controllable via EclerNet software.
- Remotely controlled with UCPs (User Control Panels), when a UCP Server is in the system, compatible with the touchscreen WPNETTOUCH 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.
- WPNET4KV and WPNET8K compatible control panels (using specific retro-compatible Firmware*****).

  *****For more information see WPNET4KV and WPNET8K user's manual.

APPLICATIONS

- Retail
- Education
- Corporate
- Hospitality

TECHNICAL DATA

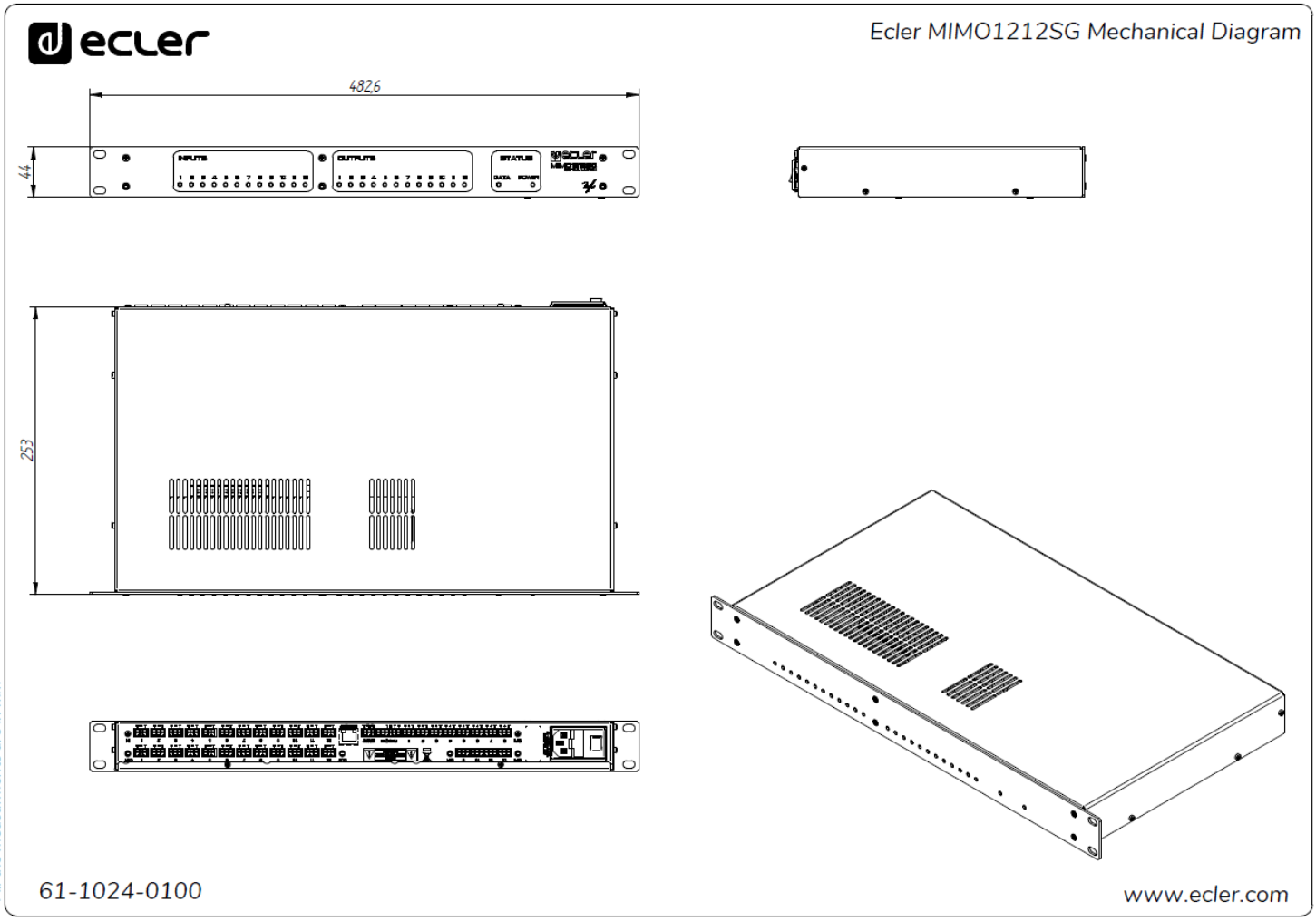
MIMO1212SG

DSP	
DSP	2x 32/64bit
Sampling Rate	48kHz
Latency IN to OUT	<3.2ms
Converters	
Resolution	24bit AKM
Dynamic Range	AD:110dB, DA: 115dB
Analogue	
12 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 (x12)	Range: from Off to 0 dB
	Mute: Yes
	Signal Polarity reverse: Yes
	Metering: VU + clip pre & post fader
Output Level (x12)	Range: from Off to 0 dB
	Mute: Yes
	Solo: Yes
	Signal Polarity reverse: Yes
	Metering: VU + clip pre & post fader
Output Gain (x12)	Range: from 0 to +6 dB
Input Delay (x12)	from 0 to 1000 ms.
	Units: sec/ms/m/cm.
Output Delay (x12)	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; Gain: -60/+12 dB; Q: 0.3 to 200
(6 max per input)	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 (x12)	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 (x12)	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 (x12)	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 (x12)	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: 12x12 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 IN12 Priorities: 3 (1 max, 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 (WxHxD)	482.6 x 44 x 253 mm / 19 x 1.73 x 9.96 in.
Weight	3.2kg
Supply	
Mains	90-264VCA 47-63Hz
Power consumption	75VA

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	12, from 0 to 10VDC or TTL level
Aux. Power Supply for Remotes & GPI	+12VDC, 0,6A. max. (short circuit protected)
Time and date retention (battery)	100 hours approx.. (ambient temperature dependant)
RTC accuracy	±1 minute / month
Software	
EclerNet Manager	From v3.03r4 version

MECHANICAL DIAGRAMS



Motors, 166-168 08038 Barcelona - Spain - (+34) 932238403 | information@ecler.com | www.ecler.com