

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.
- UCP (User Control Panels) remote control system, compatible with 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 (4 max per input) (6 max per input) | 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 (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 |

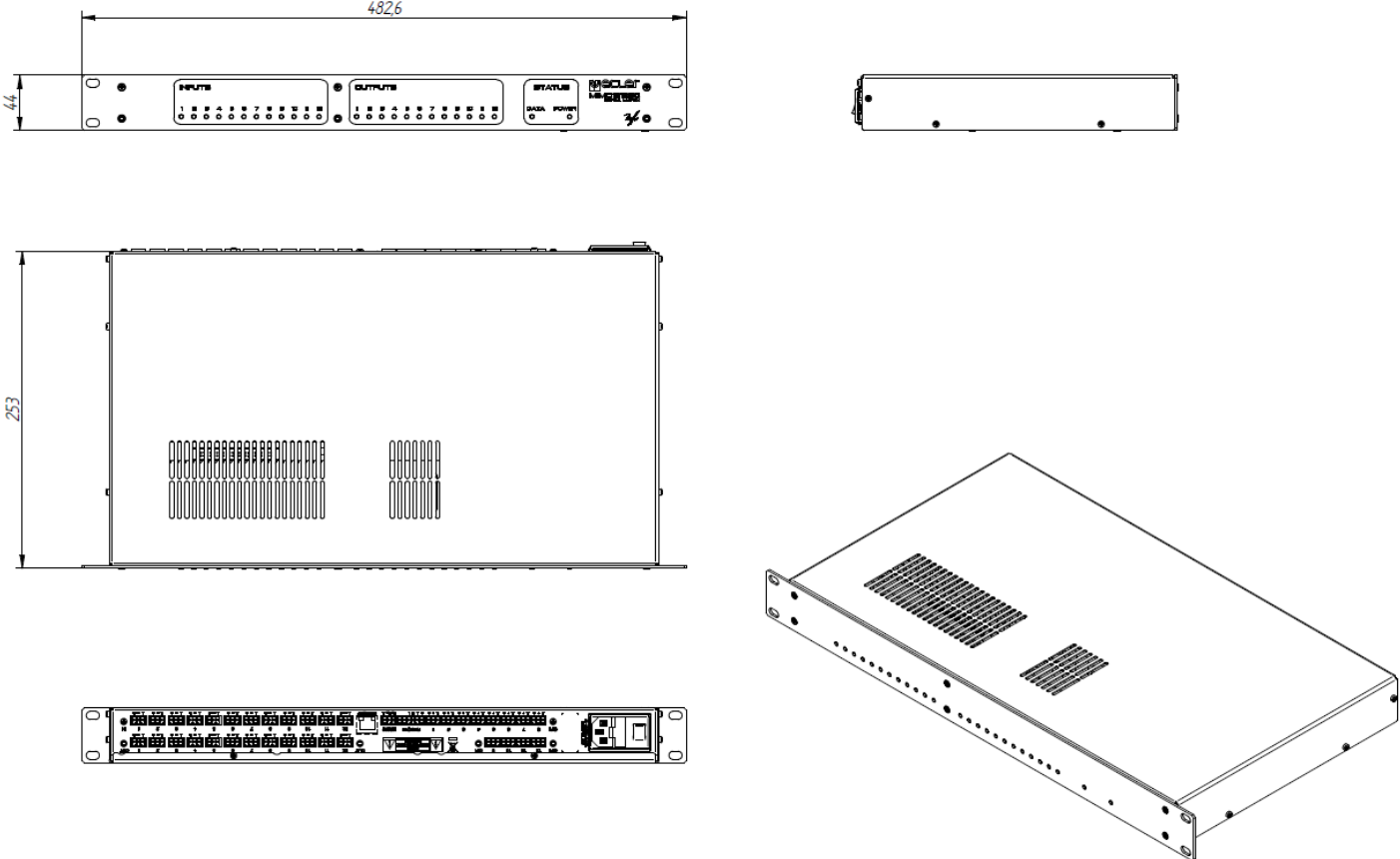
Software

EclerNet Manager From v3.03r4 version

MECHANICAL DIAGRAMS



Ecler MIMO1212SG Mechanical Diagram



All the measurements are in mm

61-1024-0100

www.ecler.com

All product characteristics are subject to variation due to production tolerances. **NEEC AUDIO BARCELONA S.L.** reserves the right to make changes or improvements in the design or manufacturing that may affect these product specifications.

For technical queries contact your supplier, distributor or complete the contact form on our website, in [Support / Technical requests](#).

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