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 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

### MIMO88SG

<table>
<thead>
<tr>
<th>DSP</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DSP</td>
<td>2x 32/64bit</td>
</tr>
<tr>
<td>Sampling Rate</td>
<td>48kHz</td>
</tr>
<tr>
<td>Latency IN to OUT</td>
<td>&lt;2.9ms</td>
</tr>
</tbody>
</table>

### Converters

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Dynamic Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>24bit AKM</td>
<td>AD:110dB, DA: 115dB</td>
</tr>
</tbody>
</table>

### Analogue

<table>
<thead>
<tr>
<th>x8 Input/Output</th>
<th>Terminal block (Symmetrical)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analogue Input headroom</td>
<td>+27dBV = +30dBu</td>
</tr>
<tr>
<td>Max. output level</td>
<td>+18dBV = +21dBu</td>
</tr>
<tr>
<td>Input sensitivity @ 0dBV out</td>
<td>From -50dBV to +10dBV in 0.5dB step</td>
</tr>
<tr>
<td>Input Impedance</td>
<td>Balanced, &gt;4kΩ</td>
</tr>
<tr>
<td>Phantom power</td>
<td>+42VDC, 5mA max software switched</td>
</tr>
<tr>
<td>Frequency response (-3dB)</td>
<td>5Hz to 24kHz</td>
</tr>
<tr>
<td>Flatness</td>
<td>better than ±0.1dB</td>
</tr>
<tr>
<td>THD+Noise @ 1kHz, 0dBV input (line)</td>
<td>&lt;0.004%</td>
</tr>
<tr>
<td>THD+Noise @ 1kHz, -40dBV input (mic.)</td>
<td>&lt;0.008%</td>
</tr>
<tr>
<td>Output Noise floor FFT (20Hz - 20kHz)</td>
<td>better than 115dB</td>
</tr>
<tr>
<td>Interchannel crosstalk (20Hz - 20kHz)</td>
<td>better than 90dB (100dB typ.)</td>
</tr>
<tr>
<td>Channel Leakage (20Hz - 20kHz)</td>
<td>better than 100dB (115dB typ.)</td>
</tr>
<tr>
<td>CMRR 20Hz - 20kHz</td>
<td>65dB typ.</td>
</tr>
</tbody>
</table>

### Processing

<table>
<thead>
<tr>
<th>Input Level (x8)</th>
<th>Range: from Off to 0 dB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mute: Yes</td>
<td></td>
</tr>
<tr>
<td>Signal Polarity reverse: Yes</td>
<td></td>
</tr>
<tr>
<td>Metering: VU+clip pre &amp; post fader</td>
<td></td>
</tr>
<tr>
<td>Output Level (x8)</td>
<td>Range: from Off to 0 dB</td>
</tr>
<tr>
<td>Mute: Yes</td>
<td></td>
</tr>
<tr>
<td>Solo: Yes</td>
<td></td>
</tr>
<tr>
<td>Signal Polarity reverse: Yes</td>
<td></td>
</tr>
<tr>
<td>Metering: VU+clip pre &amp; post fader</td>
<td></td>
</tr>
<tr>
<td>Output Gain</td>
<td>Range: from 0 to +6 dB</td>
</tr>
<tr>
<td>Input Delay (x8)</td>
<td>from 0 to 1000 ms</td>
</tr>
<tr>
<td>Units: sec/ms/m/cm</td>
<td></td>
</tr>
<tr>
<td>Output Delay (x8)</td>
<td>from 0 to 1000 ms</td>
</tr>
<tr>
<td>Units: sec/ms/m/cm</td>
<td></td>
</tr>
<tr>
<td>Parametric Eq. Types</td>
<td>Bypass / On-Off all channels</td>
</tr>
<tr>
<td>(4 max per input)</td>
<td>Param Eq. Freq: 20Hz-20kHz; Gain: -60/+12 dB; Q: 0.3 to 200</td>
</tr>
<tr>
<td>(6 max per input)</td>
<td>Low &amp; High Shel 6/12 dB/oct</td>
</tr>
<tr>
<td></td>
<td>Low &amp; High Pass 6/12 dB/oct</td>
</tr>
<tr>
<td></td>
<td>All Pass 1/2 order</td>
</tr>
<tr>
<td>High &amp; Low pass output Crossover filters (x8)</td>
<td>Bypass On-Off</td>
</tr>
<tr>
<td></td>
<td>Butterworth in 6/12/18/24 dB/oct</td>
</tr>
<tr>
<td></td>
<td>Bessel in 12/18/24 dB/oct</td>
</tr>
<tr>
<td></td>
<td>Linkwitz-Riley in 12/24 dB/oct</td>
</tr>
</tbody>
</table>
### 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 (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 | 3.5kg |

### 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) |
MECHANICAL DIAGRAMS

Ecler MIMO88SG Mechanical Diagram

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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