8X8 AUDIO DIGITAL MATRIX

MIMO88 is an 8 in / 8 out digital audio matrix, fully programmable and linkable to a second unit to become a 16x16 matrix, with real routing from any input to any output. It can be configured and managed via Ethernet with the included EclerNet Manager software, also offering many other external control options: networked webserver-webclients control system (a graphical, custom-made screen for each user, run from computers, tablets, smartphones, etc.), TP-NET third-party control protocol for the integration with external control hardware like Crestron®, AMX®, RTI®, etc., digital WPTOUCH wall panels, digital MPAGE16 paging station, 8 GPIO ports, etc. using the MIMO88 Ethernet or RS-232 ports.

Key features

- 8 MIC/LINE balanced inputs, with phantom power selection and mono or stereo management
- 8 balanced outputs with mono or stereo management
- 2 additional monitoring outputs
- Expandable to 16 inputs / 16 outputs to become a real 16 x 16 matrix (using the digital audio bus between MIMO88 units, a CAT5 connection which can handle 100 meter distances)
- Ethernet and RS-232 comm ports
- 8 GPI ports (General Purpose Inputs): 0-10 VDC control inputs assignable to MIMO functions, like volume control, MUTE, preset recall, etc.
- 8GPO ports (General Purpose Outputs): relay contacts to remote control external devices, like motors, lights, etc.
- Digital control bus for the WPTOUCH (digital touch-sensitive) wall panel and the MPAGE16 (digital & touch sensitive paging station)
- Fully programmable and controllable via EclerNet software (with a straight PC-MIMO88 cable connection or by means of an Ethernet network)
- Ethernet remote control, based on webserver multiple clients: the EclerNet Manager projects can include several control panels, which have been customised for the needs of each user. The panels can be recalled and operated from client devices such as computers, tablets, smartphones, etc. (an Internet browser is used as the client app.)
- 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, ducking (priority & overriding), virtual and physical paging stations management, automatic mixer function, presets save & recovery, scheduled events triggering
- NEW! FREQUENCY SHIFTER function to avoid feedback loops (Larssen Effect). Available for each INPUT channel

Applications

- Centralized, distributed or hybrid fixed installation
- BGM & Paging solutions, with message priorities and source/volume independent selection
- Integration in installation global control systems
- Conferencing (automatic mixing)
- P.A. management (multi-way speaker processing, delay adjustment, etc.)
- Installations requiring remote supervision, diagnostic and adjustment via Internet
- Live sound (WiFi management is possible from a PC, tablet, smartphone, etc.)

F.SHIFTER

ACTIVE

NEW! FREQUENCY SHIFTER
Function to avoid feedback loops
(Larssen Effect)

Accesories

- **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 talkover 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

PRODUCT

The new MIMO88 CONFERENCE has been specially designed for those applications that involve conferencing, microphone automatic mix processing and feedback loops (Larsen effect) cancellation.

The MIMO88 CONFERENCE version presents these peculiarities compared to the MIMO88 standard version:
• Identical hardware for both versions
• Different firmware for the standard and conference version

Therefore, any MIMO88 hardware unit (existing or new one) can get a firmware upgrade to be converted into a MIMO88 standard unit or into a MIMO88 CONFERENCE unit. The upgrade process is fast, simple and straightforward, and can be done as many times as required.
This is an incredible advantage in terms of flexibility: keeping a single physical stock for the MIMO88 hardware units, it's possible to deliver to customers one or the other version, depending on the project it will belong to.
On top of the new features included, most of the standard MIMO88 features are still available in the CONFERENCE version, like presets management, events management, GPIO analogue remote control, digital remote control via WPTOUCH, TP-NET external control via Ethernet or RS-232, etc.

AUTOMIXER section Key features
(see EclerNet Manager user manual for further information)

• 8x8 configuration: up to 4 independent output mixes & 4 auxiliary outputs
• 16x16 configuration: up to 8 independent output mixes & 8 auxiliary outputs
• Two working modes:
  - NOMA ("Number of Open Microphones Attenuated"): in this mode, the automatic mixing algorithm allows a fixed number of input signals (usually microphones) to become simultaneously part of the mix, reducing or increasing their total gain automatically
  - EXCLUSIVE: in this mode only a single microphone is part of the mixer channel at a given moment, once the algorithm considers that it complies with its requirements. Another microphone can be used when the first one has released the channel
• Full set of working parameters: MAX. NOMA, LAST ON, PRIORITY, THRESHOLD DEPTH, etc.

FEEDBACK KILLER section key features
(see EclerNet Manager user manual for further information)

• 2 automatic notch filter banks
• 8 notch filters included in each bank
• Fixed / dynamic filters free configuration
• Filter WIDTH, RECYCLE TIMER, LOCK, RESET and BYPASS parameters
• 4 working mode presets