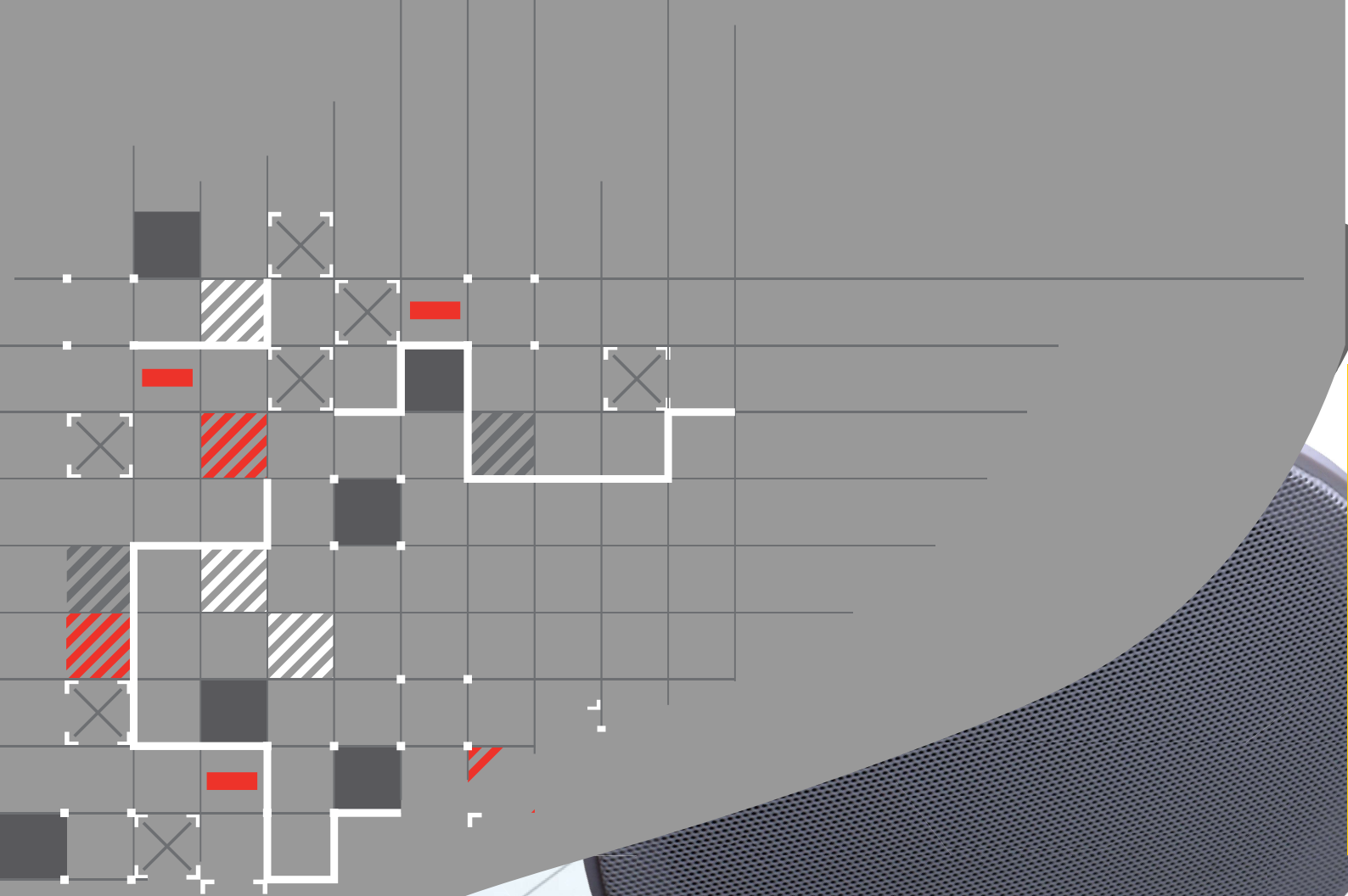


MATRIX SYSTEM CONVENTIONAL SYSTEM

analogue & digital

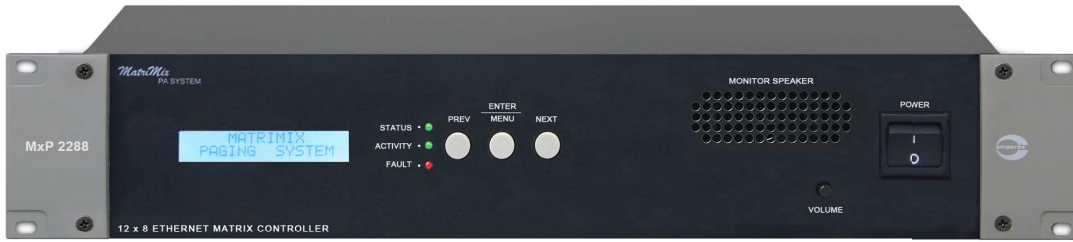


A Brand That Fits To Most Sizes or Requirements

MATRIX SYSTEM

- MxP2288** 12 x 8 Matrix Controller
- RP1104** Remote Control Panel
- EX1103** Mic Extender Module

MxP2288 features 12 inputs with 8 outputs matrix, suitable for both PA installations in EVAC and BGM setups that requires flexible input to output routings. ie. Commercial or residential applications. With host of features such as remote access controls, LAN connectivity and user friendly equipment, MxP2288 shall be the equipment of choice for flexibility in audio selection.



Features

POWERFUL PROCESSOR

Its ARM 32 bit processor enables optimum performance for smooth operation and shall be able to cater for future upgrades.

PRIORITIZED AUDIO ROUTING

It is designed to perform prioritized audio broadcast, which Emergency Paging would have highest priority, followed by message broadcast from MR1301 and normal paging.

12 X 8 MATRIX CONFIGURATION

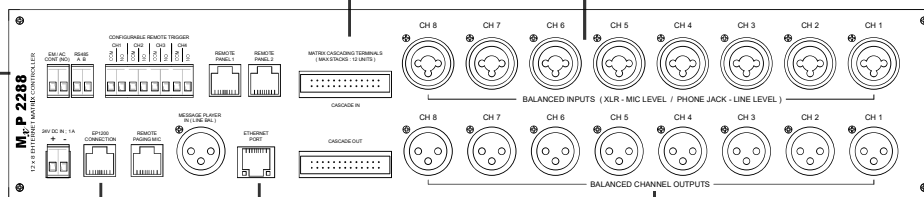
Featuring 8 Mic/Line audio inputs, dedicated EP1200 Emergency Paging Panel, MR1301 EVAC player and PD Series of paging mics

ZONE EXPANSION WITH CASCADE

Output zones can be expanded up to 24 zones, making the overall configurations as 12 x 24. Interlinks between stacked units had been made easy with Link Cables provided,

FLEXIBLE AUDIO SOURCES

Combo jacks are provided for inputs section which accept either XLR or 1/4" stereo phone jacks. Line / mic MxP2288 accepts both levels and would provide balanced line levels at its outputs.



FAIL SAFE OPERATION

Installation with EP1200, the PA system shall operate seamlessly even if the matrix unit is digitally down or in off mode. This emergency paging bypass mode is essential to ensure that important paging shall continue uninterrupted in critical moments.

LAN CONNECTIVITY

With its LAN ready feature, it can be accessed directly through web browser for configuration, channel routing and also channel VBT controls, either from a PC or via Tablet. Anywhere within the LAN (including WIFI access), the controller is always within the command of the user.

OUTPUTS WITH INDIVIDUAL VBT

Each output has its own volume, bass and treble (VBT) setup, thus enabling fine tuning the audio of each zone.

MxP2288 Companions



RP1104
Remote Zone Control Panel

A remote zone controller with sensor touch buttons which allows the user to select input music source, volume and tones. It shall be installed near to related zones and connected to the MxP2288 controller via Cat5e / 6 UTP cable.

Power source	24V DC via MxP2288
Power consumption	100 mA
LCD panel	3.5" resistive touch screen
Communication	RS485 ; 19.2 Kbps
Controls	Volume / BGM source / tone controls
Cabling	Cat 5e / 6
Distance	Up to 500m
Dimensions (WxH)	86 x 86 mm
Color	White
Weight	100 g



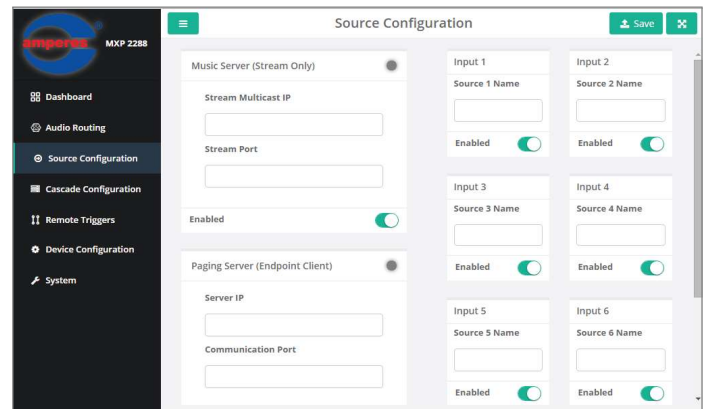
EX1103
Paging Mic Extender

EX1103 is used when cables run from multiple paging mics return to controller or when more than one mic is connected in series before returning to MxP2288.

Technical Specifications

Configuration	12 x 8 matrix controller
Power source	24V DC ; 1A
Inputs channels	8 mic / line level balanced signal via combo jacks 1 x emergency mic panel (EP1200) 1 x message player (MR1301) 1 x paging mic (PD series)
Input connections	Combo jack; Mic (XLR), phone (1/4" stereo phone jack)
Input impedance	Mic: 600 Ohm Line: 10K Ohm balanced
Input sensitivity	800mVrms (line level) and 350mVrms (mic level)
Frequency response	150Hz - 17 KHz (+/-3 dB at 1 KHz) with low cut
Total harmonic distortion (THD)	0.10%
Paging audio streaming	IMA ADPCM (16 KHz)
Digital format	PCM / ADPCM / OGG / MP3 / WMA / WAV
Audio output	8 x balanced line output via XLR jacks Cascade link via flat cable
Tone / volume controls	Bass: +/-14 dB cut and boost (2 dB step) Treble: +/-14 dB cut and boost (2dB step) Volume: 0 dB to - 78.75 dB (1.25 dB / step)
Audio gain (max)	+4 dB
Output audio monitoring	Via front 3W speaker

Communication control	RS485; 19.2 Kbps
User interface	Direct web interface via LAN for PC and WIFI for TAB and Phone
Remote controls	Via PC / Tablet / Smartphone
Unit cascade control	3 units / 24 output channels (recommended max unit)
Trigger port	Message / Emergency Paging (programmable)
Priority controls	BGM (Local source, IPX) Paging Message Emergency Paging (highest priority)
Fail safe feature	Emergency paging bypass
E/M override contact	3A dry contact
Dimensions (WxHxD)	482 x 88 x 180 mm
Weight	3.30 kg



Browser Interface

Application Schematic

