

MxP2288

12 x 8 Matrix Paging Controller

Introduction

MxP2288 succeeded its predecessor MxP2188 which had been running for over a decade long. Various features are introduced to fulfill the sophisticated demands of today's PA installation. Apart from the value added features, operating and installation works has been greatly simplified. It is undeniable an advanced and user friendly product ever produced by Amperes.

Be it a standalone installation or a networked (LAN) setup, MxP2288 shall outshine others in its class, which we learnt and applied all feedbacks, making it a truly outstanding equipment worth invested in. It is suitable for both commercial and residential application.



12 X 8 MATRIX CONFIGURATION

8 mic / line audio sources, dedicated EP1200 Emergency Paging Panel, MR1301 Voice Message Recorder / Player, PD Series Paging Console and network audio streaming through iPX5200.

POWERFUL PROCESSOR

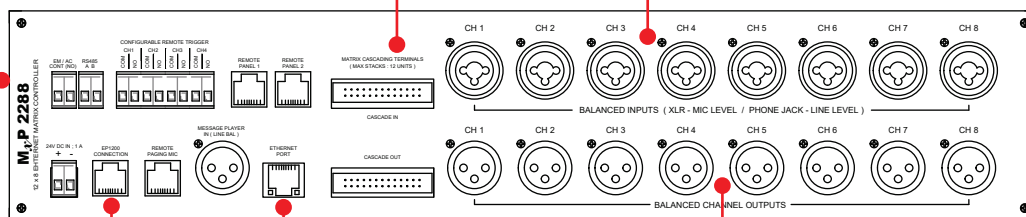
Built with powerful ARM 32 bit processor, MxP2288 shall perform various tasks smoothly and would be able to cater for future upgrades in features that would be available from time to time.

ZONE EXPANSION IN CASCADE MODE

Output zones can be expanded up to 96 zones making the overall configurations as 12 x 96. Interlinks between stacked units had been made easy with Link Cables provided, thus making overall interconnections look neat and pleasing. As each audio connection is buffered, audio distributor shall no longer be required, thus saving component count in the installation.

FLEXIBLE AUDIO SOURCE

Combo jacks are provided for inputs section which accept either XLR or 1/4" stereo phone jacks. Audio source (Line or Mic level) shall not be an issue as MxP2288 accepts both levels and would provide balanced line levels at its outputs.



FAIL SAFE OPERATION

With EP1200 connected, overall operation would operate seamlessly even if the matrix unit is digitally down or in off mode. This emergency paging bypass mode is essential to ensure important paging shall continue uninterrupted in critical moments.

OUTPUTS WITH INDIVIDUAL VBT

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

PRIORITISED AUDIO ROUTING

While the main function of MxP2288 is offering flexible audio routing, it is also designed to perform prioritised audio broadcast, which Emergency Paging would have highest priority, followed by message broadcast from MR1301 and normal paging.

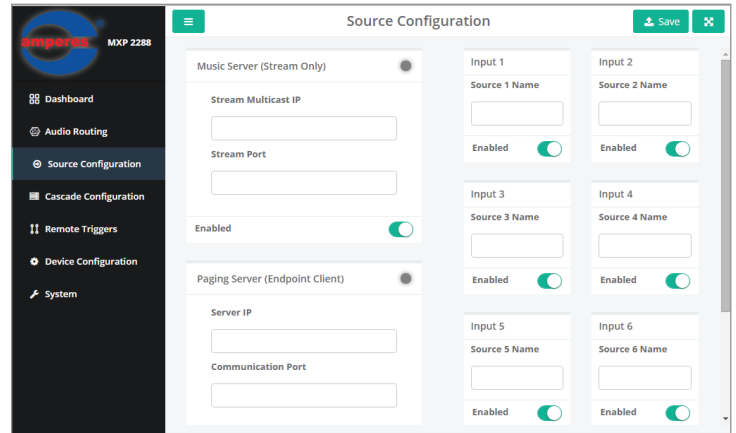
NETWORK (LAN) READY

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.

Technical Specifications

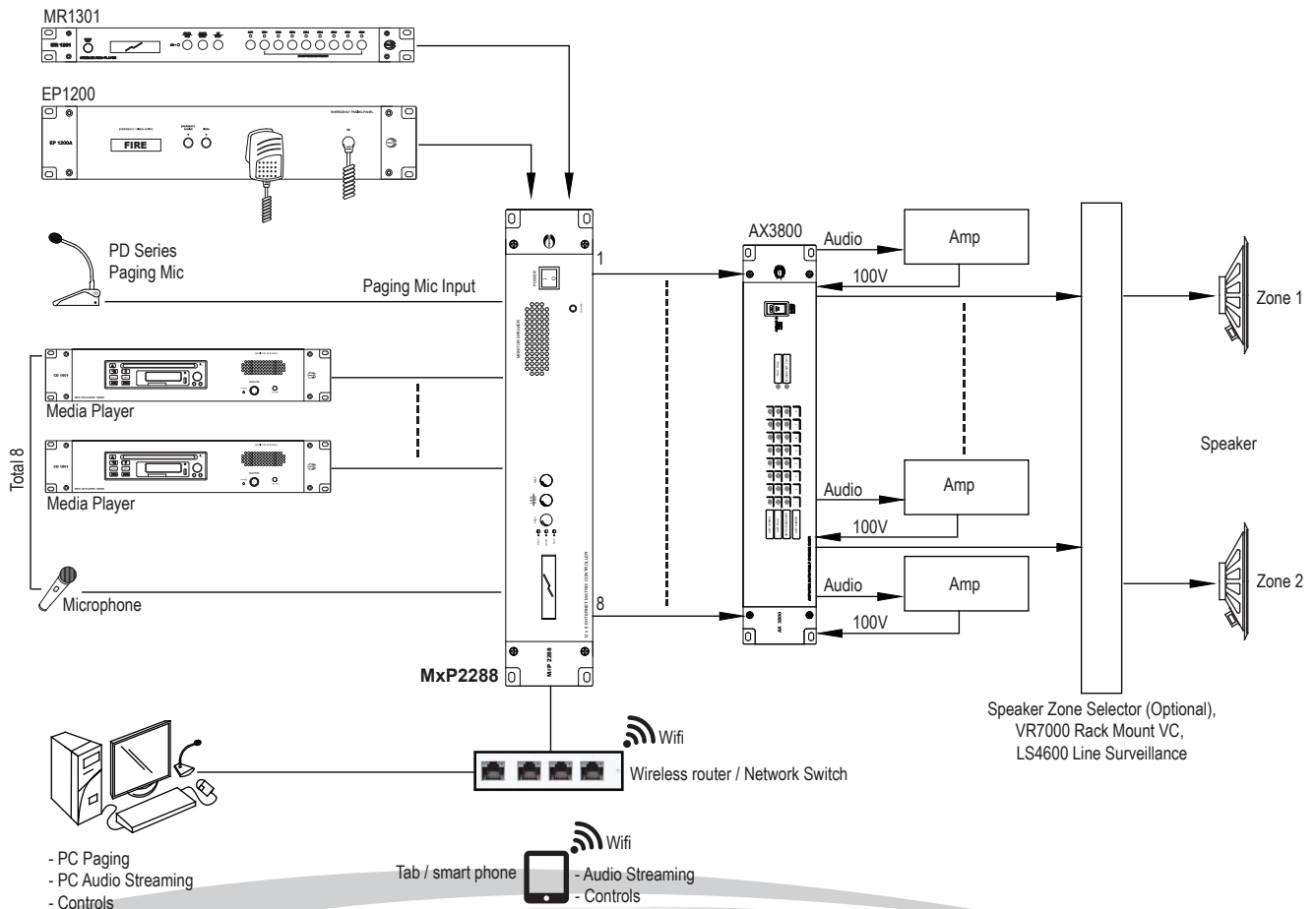
Configuration	12 x 8 matrix controller
Power source	24V DC ; 1A
Inputs channels	8 mic / line level balanced signal via combo jacks 1 x emergency mic panel (EP1200) 1 x message player (MR1301) 1 x paging mic (PD series) 1 x LAN music streaming via iPX5200
Input connections	Combo jack; Mic (XLR), phone (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%
LAN audio streaming	16 - 48 KHz PCM (Browser Streaming) 128Kb/s CBR MP3 (PMX / iPX Music Streaming)
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	12 units / 96 output channels
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	3.3 Kg



Browser Interface

Application Schematic





NEW

Preliminary Info

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 at remote location at individual zone and connected to the MxP2288 controller via Cat5e / 6 UTP cable. Each controller shall run individually to each input port of the respective zone.

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



PD1160 - 8/16 Zone Remote Paging Microphone

It is a simple and dedicated paging microphone for connection to MxP2288 MatriMix system with 8 / 16 zones call station.

- Multipoint paging with EX1102 mic extender
- Direct connection to MxP2288 controller.

Power requirement	24V DC via MxP2288 / TD6080
Power consumption	200 mA
Zone selection	8 / 16 zone keys with ALL CALL
Data connection	RJ45
Operating distance (data)	300 m
Audio distance	300 m
Indicators	Power, source, volume, busy
Dimensions (WxHxD)	150 x 186 x 62 mm (body only)
Weight	1.0 kg



EX1103 - Paging Mic Extender

When multipoint paging is required, EX1103 shall be used, with each PD1160 connected in series in a single circuit. The mic nearest to the Matrix controller shall have priority over its precedence.