



MATRIX & CONVENTIONAL

Precision ROUTING Absolute CONTROL

- ▶ VOICE ALARM CONTROLLER
- ▶ MATRIX SYSTEM
- ▶ PAGING MICS
- ▶ BGM & EVAC PLAYERS
- ▶ EVAC / FIRE ALARM INTERFACE
- ▶ PRE-AMP MIXER & AMPLIFIERS
- ▶ AMP CHANGEOVER & LINE MONITORING
- ▶ ZONE SELECTORS & DECODERS
- ▶ POWER SUPPLIES & CHARGER



① INTRODUCTION

Amperes offers in-market systems to suit every installation, whether for budget-friendly or more advanced requirements. From simple PA setups to complex systems that comply with authority standards, we provide reliable solutions for clear and quality audio delivery. Because safety matters to all, our EVAC announcement systems are designed to broadcast critical messages promptly and efficiently through coordinated and controlled equipment.





MM8804

8 In / 4 Out DSP Matrix Mixer Controller

MM8804 is a matrix mixer / controller with 8 inputs, which provides flexible audio mixing and routing up to 4 zones. Each output includes independent DSP control and delay adjustment for balanced sound distribution.

Configuration is available via the front panel or web browser (LAN/Wi-Fi), with supports for RP1106 remote panels. Priority override available with EP1200 and MR1301 MK II. Ideal for places of worship, banquet halls, partitioned venues, and commercial or residential use.

Key Features

- 8-input / 4-output matrix configuration for multi-zone audio routing
- Built-in Digital Signal Process (DSP) for precise audio tuning
- Independent volume, EQ, and delay control for each output
- Web-based setup and control via PC or smartphone (LAN/Wi-Fi)
- RP1106 for remote local source and volume control
- 24V DC backup for uninterrupted operation

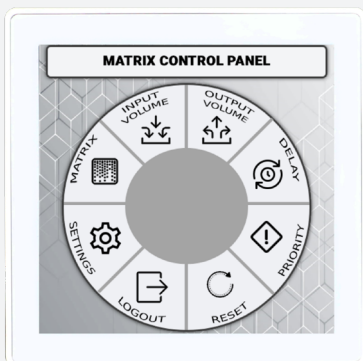
Packing Information

Carton size	555 (L) x 295 (W) x 95 (H) mm
Gross weight	3.0 kg
Qty/carton	1 unit per carton



Technical Specifications

Configuration	8-input / 4-output
Operating voltage	220 - 240V AC, 50 / 60 Hz, 24V DC back up
Power consumption	4.8W (20mA)
Current consumption	4.6W (190mA)
Input channels	8 line balanced with flexible priority selection (Ch 1 to 4)
Input connections	Mini Phoenix jack
Input level / impedance	10k Ohm
Priority	Dry contact
Output channels	4 Outputs: Balanced line 1.25V rms (+4 dBu)
Output impedance	600 Ohm
Controls	Front panel / web interface / RP1106
DSP control parameters	Tone, volume, delay, 31 band EQ
User interface	Web browser - Google Chrome preferred
Connectivity	LAN Cable, Wi-Fi, RS485 to RP1106
THD + N at rated power	< 1%
S/N ratio	> 60%
Frequency response	20 - 20 kHz
Operating temperature	-10°C to 60°C
Dimensions (W x H x D)	482 x 44 x 180 mm
Net weight	2.50 kg



RP1106

MM8804 Touchscreen Remote Control Panel



RP1106 is a 86 x 86mm wall-mounted touchscreen remote control panel for MM8804 matrix controller, offering local source and volume control without accessing the main rack. It features multi-level access, LED display and support up to 4 panels per controller—ideal for hotels, restaurants, clubhouses, and other commercial venues.

Key Features

- Local source and volume control without accessing the main rack
- Supports up to four panels per MM8804 via Cat6 cable (individual or loop)
- Multi-level access control (User & Admin mode with EQ, delay, password)
- Customizable startup logo for branding

Technical Specifications

Power source	24V DC via MM8804 or external adapter
Power consumption	68mA (1.7W) or 41mA (0.99W) at screen saver mode
LCD panel	4" diagonal capacitive touchscreen
Data communication	RS485, 19.2 kbps
Cabling to MM8804	Cat5e/6 cable or 4C screen (data & power)
Cable distance	200m
Max device per circuit	4 units of RP1106 via Cat5e/6 cable (0.41A drawn at max distance)
Controls	Volume, BGM source, tone control, and channel selection
Dimensions (W x H x D)	86 x 86 x 40 mm
Colour	White
Net weight	100g



12 x 8 Ethernet Matrix Controller



MxP2288 is a 12 x 8 matrix controller for flexible audio routing across multiple zones. It can be controlled via the front panel, LAN, or Wi-Fi, with remote access from a PC, mobile app, or tablet. No additional software is required for configuration.

This unit is suitable for both EVAC and BGM setups that require flexible input-to-output routing. It also supports integration with the RP1104, a dedicated touchscreen remote control panel for source and volume control.

Key Features

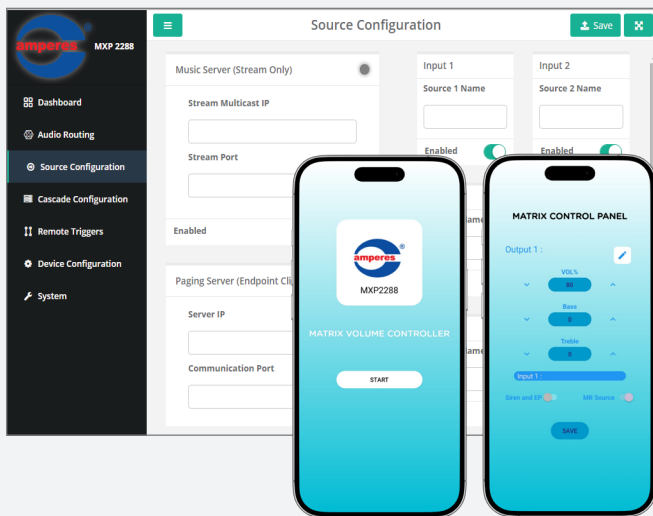
- **12 x 8 matrix configuration** for flexible input-to-output routing
- Up to **96 zones** by cascading up to 12 units
- **Web-based configuration** for audio source routing and setup
- **LAN and Wi-Fi with Android app** support for remote control
- **Multiple audio source** input jacks
- **Individual output controls (VBT)** for zone adjustment
- **RP1104** remote panel for source and volume control
- Dedicated port for **MR1301 MK II EVAC message player**
- Compatible with **PD Series paging microphones**
- **Fail-safe emergency paging** when integrated with EP1200



Technical Specifications

Configuration	12 x 8 Matrix Controller
Operating voltage	24V DC, 1A
Input channels	8 mic/line level balanced combo jacks: Emergency Paging Panel x 1 (EP1200) EVAC Message Player x 1 (MR1301 MK II) Paging Microphone x 1 (PD Series) LAN Music Streaming x 1 (IPX5200)
Input connections	Combo jack: Mic (XLR), Line (1/4" stereo phone jack)
Input impedance	Mic: 600 Ohm Line: 10k Ohm balanced
Input sensitivity	Mic level: 350mV rms Line level: 800mV rms
Frequency response	150 Hz - 17 kHz (± 3 dB at 1 kHz) with low cut
THD	< 1% (0.10%)
LAN audio streaming	Browser streaming: 16 - 48 kHz PCM iPX music streaming / PMX: 128 kb/s CBR MP3
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 steps) Treble: ±14 dB cut and boost (2 dB steps) Volume: 0 dB to -78.75 dB (1.25 dB steps)
Audio gain	+4 dB (max)
Output audio monitoring	Via built-in 3W front speaker
Communication control	RS485, 19.2 kbps
User interface	Web interface via LAN (PC) and Wi-Fi (Tablet, mobile)
Remote controls	Via PC / tablet / smartphone
Unit cascade control	Up to 12 units / 96 output channels
Trigger port	Message or emergency paging (programmable)
Chime	4-tone up and down
Priority controls	BGM (Local source, IPX, browser stream), Paging, Message, Emergency Paging (highest priority)
Fail-safe feature	Emergency paging bypass
E/M override contact	3A dry contact
Dimensions (W x H x D)	482 x 88 x 180 mm
Net weight	3.70 kg

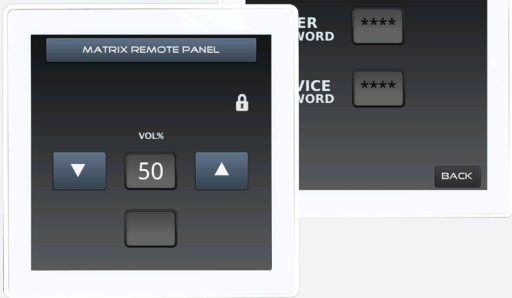
MxP2288 Configuration: Supports web-based setup via browser and remote control through LAN/Wi-Fi with Android app support.



Packing Information

Carton size	555 (L) x 295 (W) x 165 (H) mm
Gross weight	4.50 kg
Qty/carton	1 unit per carton





RP1104

MxP2288 Touchscreen Remote Control Panel

RP1104 is an improvised 86 x 86mm wall-mounted touchscreen remote control panel for MxP2288 matrix controller, providing easy control of music, volume, and tone for individual zones.

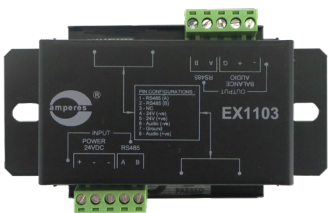
It is ideal for hotels, restaurants, and venues requiring aesthetically pleasing panel for audio controls. Available in black upon request.

Key Features

- **Three-level password protection** (User, Service, Admin)
- **Customizable startup logo** for branding
- **RS485 communication** for stable control
- Supports **daisy-chain installation**
- **Connects to MxP2288** via Cat5e/6 cable

Technical Specifications

Power source	24V DC via MxP2288 or external adapter
Power consumption	68mA (1.7W) or 41mA (0.99W) at screen saver
LCD panel	4" diagonal capacitive touchscreen
Data communication	RS485, 19.2 kbps
Cabling to MxP2288	Cat5e/6 cable or 4C screen (data & power)
Cable distance	200m
Max device per circuit	4 units of RP1104 via Cat5e/6 cable (0.41A drawn at max distance)
Controls	Volume, BGM source, tone control, and channel selection
Dimensions (W x H x D)	86 x 86 x 40 mm
Colour	White
Net weight	135g

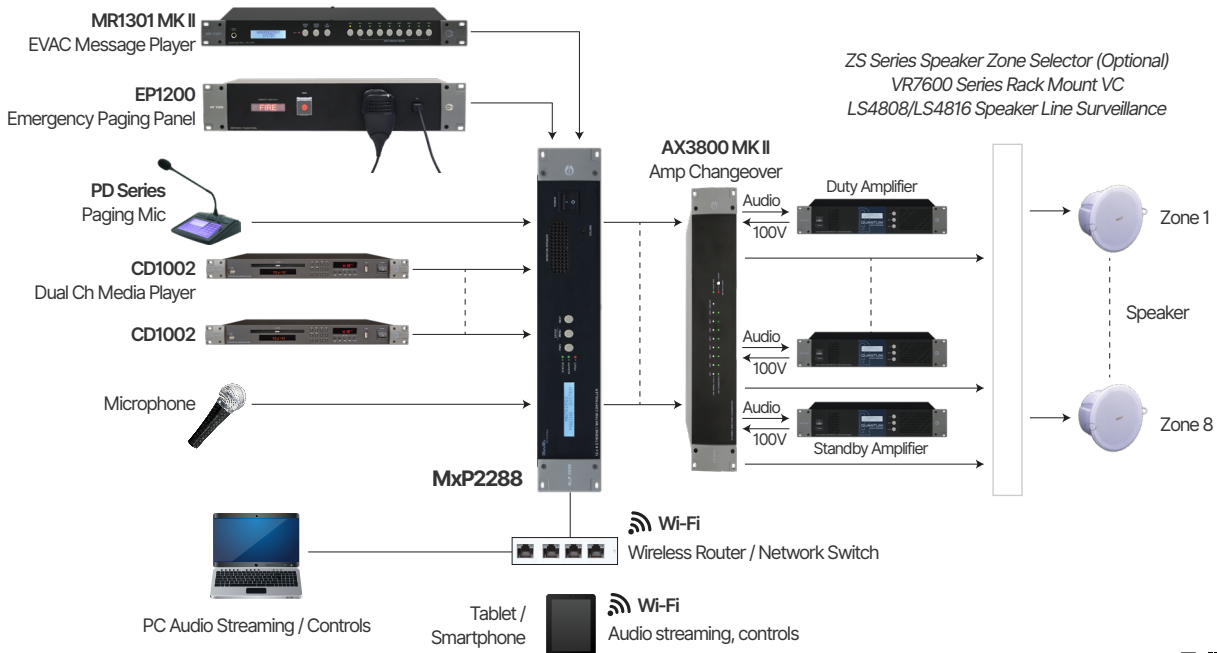


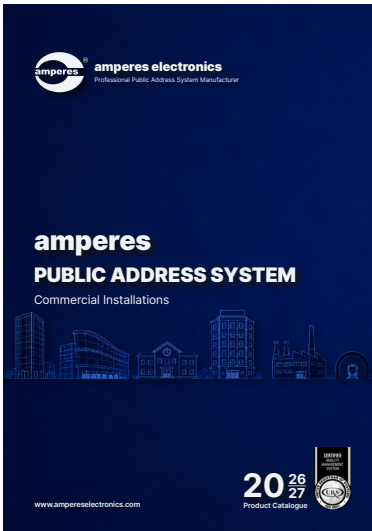
EX1103

Paging Microphone Extender

EX1103 is an optional accessory for multi-point paging with MxP2288 matrix controller. It allows multiple paging microphones to be looped and connected to the controller's microphone input for reliable complex paging systems.

Application Schematics for MxP2288





**2026/2027 Product Catalogue
Public Address System**

Due to our policy of continuous product improvement, Amperes Electronics Sdn. Bhd. reserves the right to modify specifications, features, and artwork without prior notice.

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