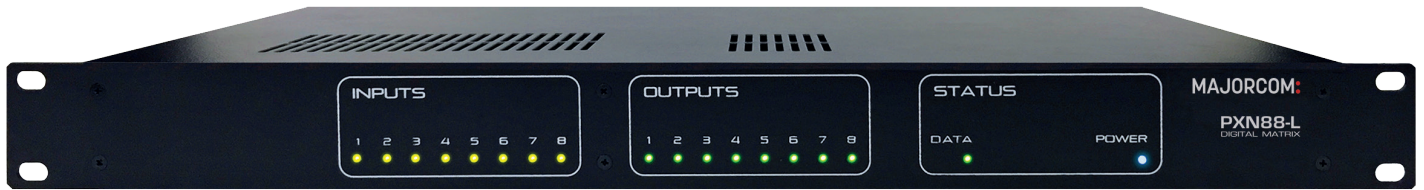


# PXN88-L

## 8x8 Digital Audio Matrix



- PXN88-L is an 8-input / 8-output digital audio matrix, fully programmable with powerful audio processing inherited from the famous PXN88,
- This matrix offers true routing of any input or output and level settings per crosspoint.
- PXN88-L remains fully compatible with:
  - EMAGPE16 selective microphone desk,
  - NET-TOUCH4KV volume control panel and choice of sources in the areas,
  - the fully programmable touch screen EWSCREEN

### KEY FEATURES

- 8x8 digital matrix (not expandable)
- Fully programmable and controllable via MAJORCOM NetManager
- UCP (User Control Panels) remote control system, compatible with WPmSCREEN 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

### CERTIFICATIONS

- EN60065:2014
- EN55103-1:2009
- EN55103-2:2009
- 2006/95/EC
- 2004/108/CE

### APPLICATIONS

- Centralized, distributed or hybrid fixed installation
- BGM & Paging solutions
- Conferencing (automatic mixing)
- P.A. management
- Installations requiring remote total control
- Live sound (Wi-Fi management is possible)

### ACCESSORIES & COMPATIBLE DEVICES



# PXN88-L

## 8x8 Digital Audio Matrix



MODEL	PXN88-L
<b>DSP</b>	
DSP	2 x 32/64bit
Sampling Rate	48kHz
Latency IN to OUT	<2.9 ms
<b>CONVERTERS</b>	
Resolution	24bit AKM
Dynamic Range	AD:110dB, DA: 115dB
<b>ANALOGUE</b>	
x8 Input/Output	Terminal block (Symmetrical)
Analogue Input headroom	+27dBV = +30dBu
Max. output level	+18dBV = +21dBu
Input sensitivity @ 0dBV out	From -50dBV to +10dBV in 0.5dB step
Input Impedance	Balanced, >4kΩ
Phantom power	+42VDC, 5mA max. software switched
Frequency response (-3dB)	5Hz to 24kHz
Flatness	better than ±0.1dB
THD+Noise @ 1kHz, 0dBV input (line)	<0.004%
THD+Noise @ 1kHz, -40dBV input (mic.)	<0.008%
Output Noise floor FFT (20Hz - 20kHz)	better than 115dB
Interchannel crosstalk (20Hz - 20kHz)	better than 90dB (100dB typ.)
Channel Leakage (20Hz - 20kHz)	better than 100dB (115dB typ.)
CMRR 20Hz- 20kHz	65dB typ.
<b>PROCESSING</b>	
Input Level (x8)	Range: from Off to 0 dB / Mute: Yes / Signal Polarity reverse: Yes / Metering: VU+clip pre & post fader
Output Level (x8)	Range: from Off to 0 dB Mute: Yes / Solo: Yes / Signal Polarity reverse: Yes / Metering: VU+clip pre & post fader
Output Gain	Range: from 0 to +6 dB
Input Delay (x8)	from 0 to 1000 ms / Units: sec/ms/m/cm
Output Delay (x8)	from 0 to 1000 ms / Units: sec/ms/m/cm
Parametric Eq. Types (4 max per input) (6 max per output)	Bypass / On-Off all channels / Param Eq. Freq: 20Hz-20kHz / Gain: -60/+12 dB / Q: 0.3 to 200 / Low & High Shelf 6/12 dB/oct / Low & High Pass 6/12 dB/oct / All Pass 1/2 order
High & Low pass output Crossover filters (x8)	Bypass On-Off / Butterworth in 6/12/18/24 dB/oct / Bessel in 12/18/24 dB/oct Linkwitz-Riley in 12/24 dB/oct
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)	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

# PXN88-L

## 8x8 Digital Audio Matrix

MODEL	PXN88-L
<b>PROCESSING</b>	
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 (1max, 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
<b>MECHANICAL</b>	
Dimensions	482.6x44x266,5mm
Weight	3,5kg
<b>POWER SUPPLY</b>	
Mains	90-264VCA 47-63Hz
Power consumption	45VA
<b>MISCELLANEOUS</b>	
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)
Time and date retention (battery)	100 hours approx. (ambient temperature dependant)
RTC accuracy	±1 minute / month
<b>SOFTWARE</b>	
MAJORCOM NET Manager	From v3.03r4 version