

FI-P4X8 4 In x 8 Out digital speaker management processor



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The FI-P4X8 is a self-contained, fully programmable, Digital Loudspeaker Management System capable of handling full control of loudspeaker systems.

The four inputs and eight outputs can be routed in multiple configurations to meet any system requirement.

Full system setup and configuration can be done in real time from the front panel or with the intuitive PC based graphic user interface software via the on-board RS485 and USB ports.

Packaged into a neat 1U rack design, an intuitive and concise front panel with LCD screen enables engineers to make essential adjustments to the speaker configuration with accuracy.

Features

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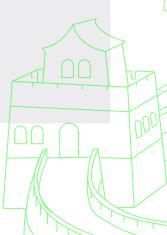
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- 96KHz sampling frequency, 32-bit DSP processor, 24-bit A/D and D/A
- USB and RS485 connectors are present for PC connection. 250 units can be connected together via Rs485 and it can be controlled remotely as far as 1500 meters
- 30 user-program parameters can be stored into the device
- Safety/security lock buttons provide peace of mind again unwanted changes from unauthorized users or unwanted set-up changes
- 6 independent parametric EQ on each input and output. The gain range is 120dB. The EQ of output channel has two slopes: Lo-shelf and Hi-shelf
- Every input and output has compression, delay, phase control and mute settings. Delay function offers a maximum of 100ms
- Adjustable gain & limiter of output channel; Just choose the input signal and copy all the parameters from one channel to another channel

Applications

- Live sound loudspeaker management
- Active monitor systems
- Fixed installations





Specifications

| Input channel jacks | 4 CHs, Female XLR |
|-----------------------------|--|
| Output channel jacks | 8 CHs, Male XLR |
| Input impedance | Balanced: 20KΩ |
| Output impedance | Balanced: 100KΩ |
| PC ports | USB (front panel), 2 RS485 RJ45 (back panel) |
| CMRR | >70dB (1 KHz) |
| Input range | ≤+25dBu |
| Frequency response | 20Hz-20KHz (-0.5dB) |
| S/N R | ≥90dB@1KHz 0dBu |
| THD | <0.01% OUTPUT=0dBu/1 KHz |
| Crosstalk of channels | >80dB (1 KHz) |
| Functions of input channels | |
| Input mute | Mute with each input & output channel |
| Input volume | Input gain range: -80dB-+12dB, step @ 1db |
| Input delay | Each input channel has single delay control, range: 0-1000ms; 21pS step-over, 0-10ms; 84 µs step-over, 10ms-20ms; 0.5mS step-over, 20ms-1000ms |
| Input polarity | In-phase (+/+) or reversed phase (+/-) |
| Input EQ | 6-bands if individual parameter EQ; Frequency: 20Hz-20KHz; Gain:-20 db-+20 db; Bandwidth: 0.05oct-3oct |
| Function of output channels | |
| Output mute | Each channel has independent mute control |
| Output selection | Each input channel can be selected to each output channel |
| Output gain | Range:-80d°~+12db, step: 1db |
| Output delay | Every input channel has independent compensation delay control, adjust range: 0-1000ms, step-over: 2lus@<10ms,10ms-20ms, step-over: 84us@>20ms, step-over: 0.5ms |
| Output polarity | Same phase (+/+) or reversed Phase (+/-) |
| Crossover | Each output channel can be independently set as LPF or HPF. These parameters can be adjusted. Filter type: Linkwitz-Riley; Bessel; Butterworth. The crossover frequency: 20Hz-20KHz, Slope: 12db/oct; 18db/oct; 24db/oct 30db/oct; 36db/oct; 42db/oct; 48db/oct |
| Limiter | Limiter present for each output channel. These parameters are adjustable: Threshold value:-40dbu-+20dbu; step: 0.5dbu. Attack time: 0.3mS-200mS. 0.1 mS step@0.3-1mS;1ms step @1mS-100ms. Release time: Release ti |
| Output EQ | Each output channel has a 6-band EQ: 3 modes: Lo-shelf/Hi-shelf/parameter. A: Lo-shelf: Slop: 6dB/12db; Frequency: 20Hz-20kHz; Gain:-20db-20db; B: Hi-Shelf: Slop: 6db/12db; frequency: 20Hz-20kHz; gain:-20db-20db; C: Parameters: frequency: 20Hz-20KHz, bandwidth: 0.05oct-3oct; Step: 0.05oct; Gain:-20db-+20db, Step 0.1db |
| Processor | 92KHz sampling frequency, 32-bit floating-point DSP |
| Display | 2 x 24 LCD, 8-LED for input/output level. Mute and editing functions can be displayed |
| Power consumption | ≤25W |
| Power | AC 110V/220V 50Hz/60Hz |
| Product dimension(WxDxH) | 482X228X44mm |
| Net weight | 4.1 kg |
| Shipping dimension(WxDxH) | 1PC:555X325X98mm/0.0177m ³ 6PCS:573X337X615mm/0.1188m ³ |
| Gross weight | 1PC:5 (kg) 6PCS:31.5 (kg) |



