SONIX M8800

8 Inputs – 8 Outputs Audio Matrix with TCP/IP & USB Control Interface

The SoniX M8800 digital matrix is built to be the brain of powerful and flexible multi-zone audio systems. Thanks to its robust hardware and software architecture, it’s ideal for a wide range of installations - from conference setups to complex environments with up to 8 sources and 8 outputs.
At the heart of the system is a high-performance 400MHz floating-point DSP and a 1.2GHz dual-core Linux-based control chip. This gives the M8800 not just the horsepower to handle demanding signal processing, but also the scalability to expand to more inputs and outputs in future configurations. Whether you’re managing audio routing or direct signal processing, this system is ready to grow with your needs.
Where many competing systems cut corners, SoniX delivers ultra-clean, low-noise preamps with a floor noise reduced to as low as -100dB. That means incredible dynamic range, even when working with low-level mic signals.
The system is controlled through a clean, intuitive Windows® software interface that lets you program extensive audio functions in just a few minutes. Control is available via USB or TCP/IP, and for larger setups, you can connect up to 16 wall-mounted touch screen controllers via RS-485. The M8800 also supports full integration with third-party control systems over TCP/IP and RS-232.
Each input features a powerful suite of processing tools, including Adaptive Feedback Suppression, Automatic Echo Cancellation, Auto Input Gain Control, Noise Gate, Limiter and more. Each output includes: 8-band Parametric EQ, HPF & LPF, Delay up to 300ms, Limiter.
With one USB on the front panel and another on the back, the M8800 gives you flexible access for PC control, real-time audio recording, or USB playlist playback. Both recording and playback functions can be freely routed through the matrix as fully assignable stereo sources or outputs, just like the other inputs and outputs.







PRODUCT DETAILS

Key features

- 8 Independent Balanced Audio Inputs and 8 Independent Balanced Audio Outputs
- 400MHz Floating-Point DSP Processor
- 1.2GHz Dual-Core Main Control Chip
- 32 Preset, recallable by TCP/IP, RS-232 and Wall Touch Screen (Optional)
- Ultra-Low Floor Noise Mic Preamplifiers with low Distortion Analog Circuit
- Independent 48V Phantom Power on all Inputs
- Two Independent USB ports for both Remote Control and Playback/Recording
- Adaptive Feedback Suppressor, Auto Echo Cancellation, Auto Gain Control, Noise Gate, 8-band PEQ, 48dB slope HPF & LPF, Limiter, on each Input
- 8x8 Full Matrix and Auto Mixing Control
- Built-in Signal Generator with Sine, Pink Noise and White Noise
- 8-band PEQ, 48dB slope HPF & LPF, 300ms Delay, Limiter, on each Output
- USB Audio Playback and Recording with free Input/Output selection
- TCP/IP Control Interface with easy-to-use PC software
- Open RS-232 and TCP/IP Communication Protocol for Third-Party Equipment Connection
- RS-485 Interface to connect up to 16 Wall Touch Screen Controls
- Camera Tracking Code Output for Camera linkage functions

Specifications

DSP Frequency, Processing Capability	400MHz DSP
Sampling frequency/quantization	48kHz, 24Bit ADC, 24Bit DAC
Input to Output Dynamic Range	110 dB
THD	< 0.004% @ 4dBu 20Hz ~ 20kHz
Frequency response	20 Hz-20 kHz, ± 0.5 dB @ 0dBu
Common mode rejection ratio (CMRR)	> 80dB @ 1 kHz MIC Gain 20dBu
Crosstalk	100dB ± 5dB @ 0dBu 1Khz
Maximum input level	+ 18dBu
Audio interface standard	8-way balanced input, phoenix plug
Default input and output levels	+0 dBu
Microphone preamplifier gain	0-40 dB analog gain, 12dB digital gain
Input impedance	> 5 kΩ balanced, > 3 kΩ unbalanced
Output impedance	600 Ω
Preamplifier equivalent input noise (EIN)	<-125 dBu, 22 Hz-22kHz
Output noise floor	-100dBu (A weighted)
Phantom power supply	DC 48V
Dimension (WxDxH)	1U, 480 mm x 250mm x 44mm
Power supply	100 ~ 240VA, 50/60 Hz, 55W
Operating temperature range	0 ~ 40 ° C operating temperature