

SISTEMAS Y CONTROL / SISTEMAS DE ZONAS / DIGITAL

NMX-88D

8 X 8 ANALOGUE AND 8 X 8 DANTE AUDIO MATRIX WITH DSP, 8 GPIOs



- ✓ Great versatility, perfect for installations of any size. Distributed audio and conference systems.
- ✓ Configurable DSP in inputs and outputs.
- ✓ Echo Cancellation (AEC), Feedback Cancellation (AFC), Noise Suppression (ANS) and Automatic Gain Control (AGC) algorithms.
- ✓ Modular configuration software for PC. Customisable user interface and App for Android and iOS touch screens.
- ✓ Configurable GPIO and PTZ camera tracking control.



+ Info:
<https://fonestar.com/NMX-88D>

ESPECIALLY RECOMMENDED IN:



Sports facilities



Hotels



All sectors

DESCRIPTION

8 x 8 analogue and 8 x 8 DANTE audio matrix with DSP and 8 GPIO. The NMX-88D is an audio matrix with a digital signal processor (DSP) that offers a complete and versatile solution for handling and processing audio signals. With this matrix, sound systems can be configured with simple end-user control. It has powerful audio signal processing tools to match and enhance the signal to any venue or application, and get the best results for sound diffusion. It gives the installer the possibility to configure sound systems with multiple inputs and outputs. And gives the user an easy way to control the sound. It is based on an ADI SHARC 21489 architecture, with 40 floating point bits and a high processing power (400 MIPS, 1600 MFLOPS). It has 8 analogue inputs and 8 analogue outputs and 8 DANTE digital inputs and 8 digital outputs. In addition, it has a USB sound card input and output channel for playback and recording on the PC or use with video calling software. One of the outstanding features of the NMX-88D audio matrix is its signal processing algorithms. The main ones include: Echo Cancellation (AEC) for video conferences. Feedback Cancellation (AFC) allows flexible placement of microphones and speakers, improving speech amplification and delivering audio where it is needed. Noise Suppression (ANS) effectively eliminates static noise other than speech. Automatic Gain Control (AGC) ensures that the inputs have an optimal level. In addition to other functions such as auto mix and priority control, it also has processing on signal dynamics such as parametric filters, graphic filters, noise gate, expander, compressor, delays, crossover and limiter. The processing can be applied to both analogue and DANTE digital channels. Each channel has a volume control that can operate independently or link two channels together to form a stereo channel. The assignment matrix allows inputs to be assigned to outputs with independent volume on each assignment. Achieving to select a different mix for each output. Up to 16 scenes that can be loaded and memory function with auto-save of the parameters selected in the last session. 8 GPIO ports to control actions on the matrix or other devices. For conference system applications, PTZ camera control is available for discussion monitoring. The matrix is equipped with powerful modular configuration software. You can configure each input channel with 5 different processing modules and each output channel with 4 processing modules. The processing algorithms are highly parameterised. It allows for great flexibility in configuration and customisation to provide a solution for each installation, such as audio distribution, conference systems, etc. The configuration software can manage several matrices to form a complex system. With the software it is possible to create customised control panels to run on touch screens, tablets or smartphones (Android and iOS). Where only the functions required for each user can be displayed. The matrix can be connected via an Ethernet port. It has UDP, RS-232 and RS-485 connectivity, and a communication protocol for integration with other control systems. Thanks to its flexibility, it can be used for voice applications such as conference systems or video call rooms and in music systems in restaurants, hotels, shopping centres, etc.



+ Info:

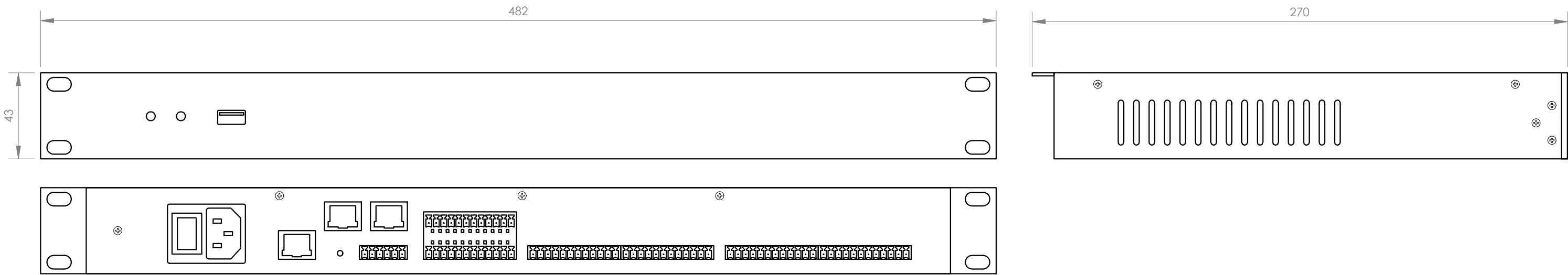
<https://fonestar.com/NMX-88D>

TECHNICAL CHARACTERISTICS

FEATURES	<p>Audio matrix with DSP, ADI SHARC 21489 architecture</p> <p>8 analogue inputs (Microphone / selectable 48V line with Phantom).</p> <p>8 DANTE digital inputs.</p> <p>8 analogue outputs.</p> <p>8 DANTE digital outputs.</p> <p>USB sound card input and output channel.</p> <p>Algorithms: Echo Cancellation (AEC), Feedback Cancellation (AFC), Noise Suppression (ANS), Automatic Gain Control (AGC).</p> <p>Signal processing with 5 modules per input channel including expander, compressor, noise gate, automatic gain control (AGC), priority, parametric filter, graphic filter, priority, acoustic feedback cancellation (AFC) and delay. And 4 modules for each output channel between crossover, parametric filter, graphic filter, delay and limiter.</p> <p>Two-channel stereo linking, Auto Mixing, Echo Cancellation (AEC), Noise Suppression (ANS), Matrix Volume Assignment, 8 GPIOs, 16 scenes, PTZ camera tracking control.</p> <p>Ethernet connection and RS-232, RS-485 control port. UDP, RS-232 and RS-485 protocol.</p> <p>Configuration software and modular user interface with App for touch screens.</p>
INPUTS	<p>8 balanced lines with gain selection in 3 dB steps: 0 dB to -48 dB. Signal level: 24 mV RMS (-30 dBu) ~ 6.15 V RMS (+18 dBu) 5.4K Ohm. 110 dB dynamic range. Euroblock connector</p> <p>8 DANTE digital input channels</p> <p>Selectable phantom power 48 V (10 mA max.)</p> <p>1 x LAN port for local area network connection, RJ-45</p> <p>1 x RS-232 port, euroblock</p> <p>1 x RS-485 port, euroblock</p>
OUTPUTS	<p>8 balanced lines. Signal level: max. 6.15 V RMS (+18 dBu) 600 Ohm. 112 dB dynamic range. Euroblock connector</p> <p>8 DANTE digital output channels</p>
CONTROLS	<p>Modular PC control software (input/output routing, DSP functions, equalisation, noise gates, compressor, gain controls, etc.)</p> <p>App for customised user control interface.</p> <p>UDP, RS-232 and RS-485 protocol for integration with other systems.</p> <p>RS-232 and RS-485 for PTZ camera tracking control.</p>
DIGITAL AUDIO	48 KHz, 24 bits
LATENCY	<3 ms
RESPONSE	20-20,000 Hz ± 0.3 dB
DISTORTION	THD+N harmonic: <0.002% @4dBu
S/N RATIO	112 dB
POWER SUPPLY	100-240 V AC, 50-60 Hz, 30 W
DIMENSIONS	482 x 44 x 268 mm depth. 1 U 19" rack
WEIGHT	3 kg
OPTIONAL	<p>NMX-WP: Wall control unit</p> <p>TAB-10-16: 10" Android touch screen</p> <p>MCMD-1: DANTE desktop microphone</p>



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FONESTAR	Model	Description	Units	Scale
	NMX-1616D	8 X 8 AUDIO MATRIX WITH DSP AND OPTIONAL DANTE CARD	mm	1:2