SYSTEMS AND CONTROL / ZONE SYSTEMS / DIGITAL

# NMX-1616D

AUDIO MATRIX 16 X 16 ANALOG AND 16 X 16 DANTE WITH DSP, 8 GPIO










- 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-1616D

ESPECIALLY RECOMMENDED IN:



Sports facilities



Hotels



All sectors

## DESCRIPTION

Audio matrix 16 x 16 analog channels and 16 x 16 DANTE channels with DSP, ADI SHARC 21489 architecture.

## TECHNICAL CHARACTERISTICS

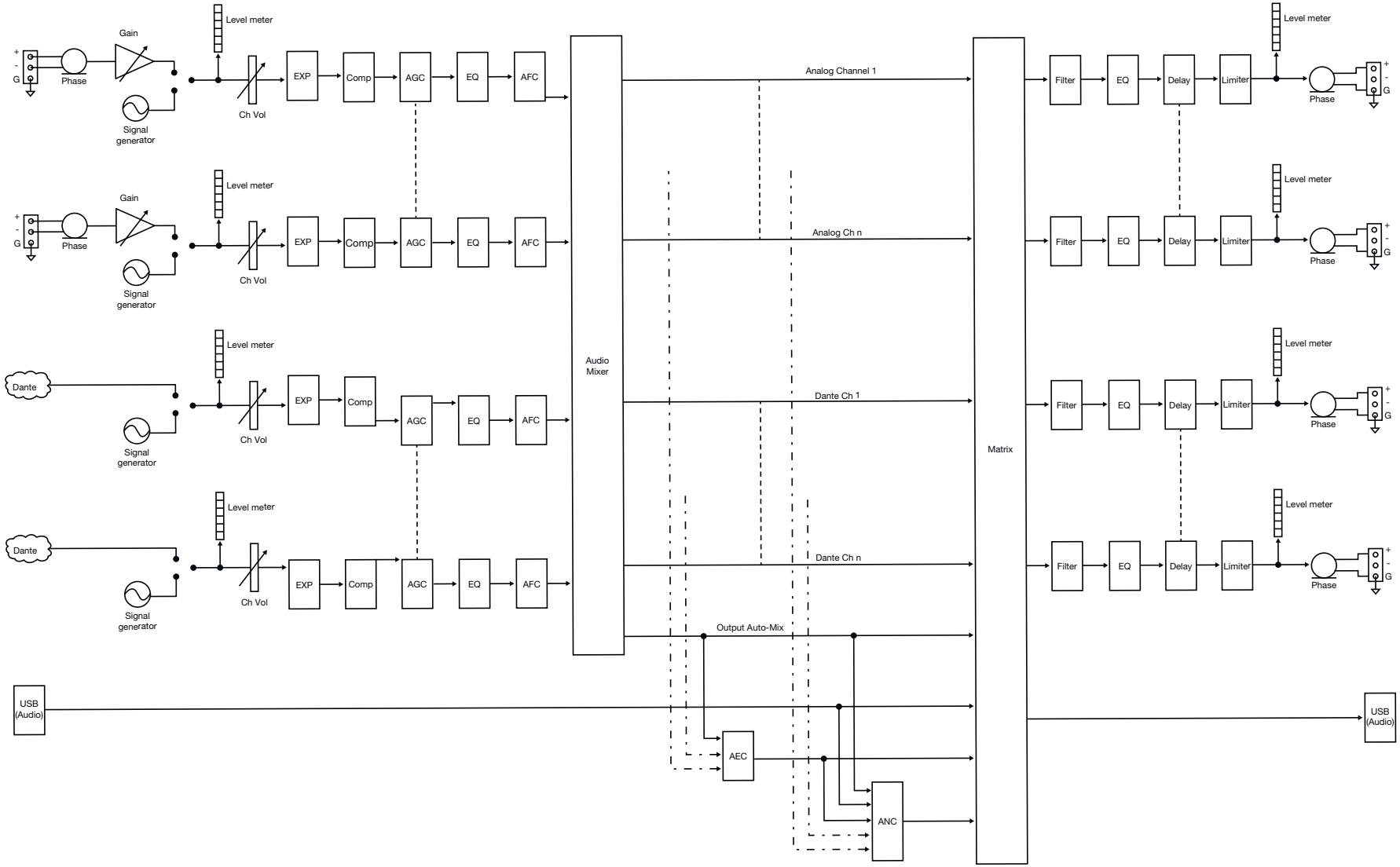
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|---|---|
| FEATURES | Audio matrix with DSP, ADI SHARC 21489 architecture<br>16 analogue inputs ( Microphone / selectable 48V line with Phantom).<br>16 DANTE digital inputs.<br>16 analogue outputs.<br>16 DANTE digital outputs.<br>USB sound card input and output channel.<br>Algorithms: Echo Cancellation (AEC), Feedback Cancellation (AFC), Noise Suppression (ANS), Automatic Gain Control (AGC).<br>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.<br>Two-channel stereo linking, Auto Mixing, Echo Cancellation (AEC), Noise Suppression (ANS), Matrix Volume Assignment, 8 GPIOs, 16 scenes, PTZ camera tracking control.<br>Ethernet connection and RS-232, RS-485 control port. UDP, RS-232 and RS-485 protocol.<br>Configuration software and modular user interface with App for touch screens. |
| INPUTS | 16 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<br>16 DANTE digital input channels<br>Selectable phantom power 48 V (10 mA max.)<br>1 x LAN port for local area network connection, RJ-45<br>1 x RS-232 port, euroblock<br>1 x RS-485 port, euroblock |
| OUTPUTS | 16 balanced lines. Signal level: max. 6.15 V RMS (+18 dBu) 600 Ohm. 112 dB dynamic range. Euroblock connector<br>16 DANTE digital output channels |
| CONTROLS | Modular PC control software (input/output routing, DSP functions, equalisation, noise gates, compressor, gain controls, etc.)<br>App for customised user control interface.<br>UDP, RS-232 and RS-485 protocol for integration with other systems.<br>RS-232 and RS-485 for PTZ camera tracking control. |



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|---|---|
| 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 | 3.1 kg |
| OPTIONAL | NMX-WP: Wall control control<br>TAB-10-16: Touch screen 10" Android<br>MIC-DANTE: DANTE desktop microphone<br>W-DANTE-BJ: Wireless audio receiver and AUX input adapter, DANTE<br>W-DANTE-22X: DANTE adapter 2 inputs / 2 outputs |

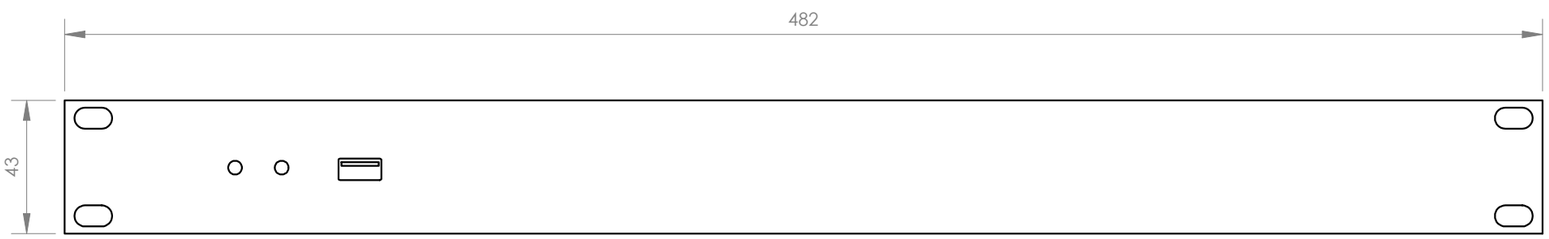
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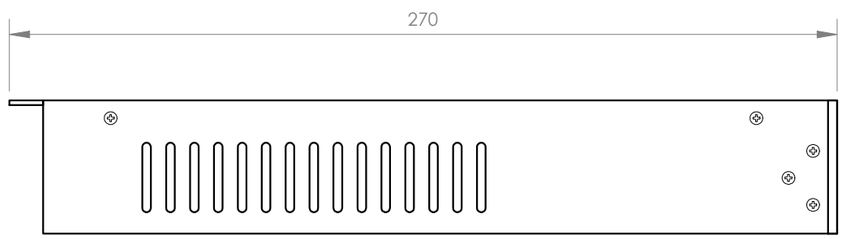


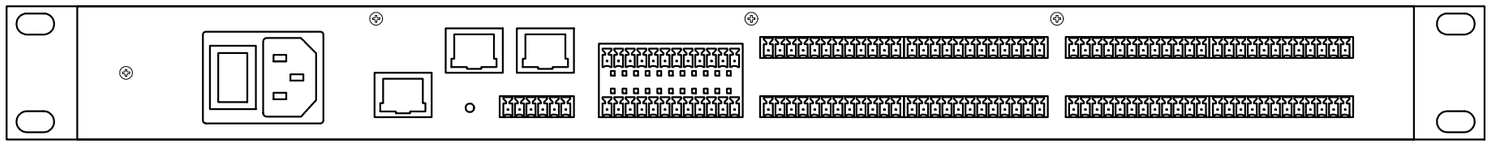

Product:
NMX-matrix Block Diagram

Date: 2025-01-10

FONESTAR
www.fonestar.es



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|---|---|---|---|---|
| FONESTAR | Model<br>NMX-1616D | Description<br>16 X 16 AUDIO MATRIX WITH DSP AND OPTIONAL DANTE CARD | Units<br>mm | Scale<br>1:2 |