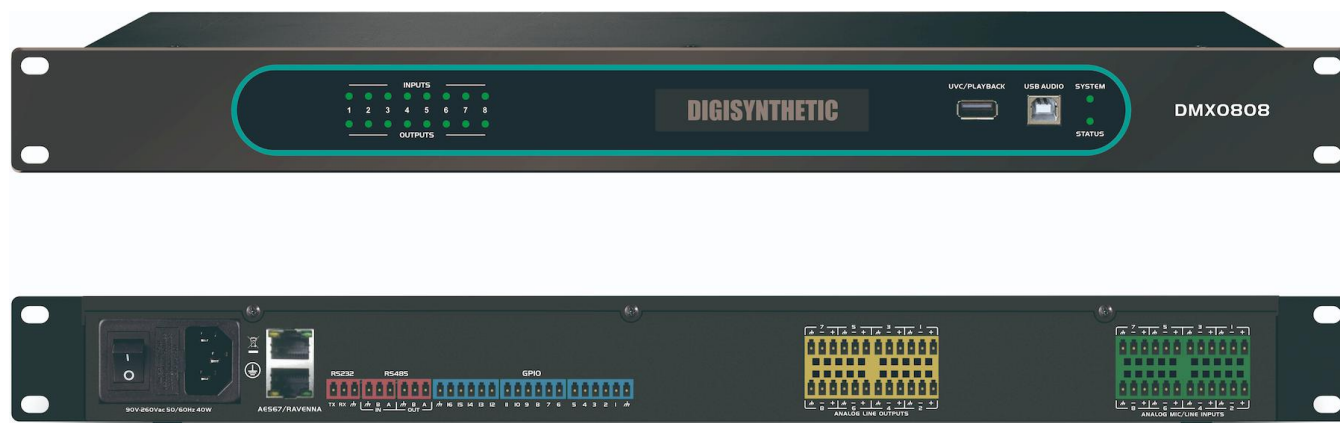


8-Channel Network Audio Matrix Specification



1. Features

- Sample Rate: 48 kHz.
- High-performance AD/DA converters for low distortion, large dynamic range, and pure sound quality.
- Network-connected, efficient, simple, and user-friendly software interface for real-time control of all functions and monitoring of the machine's working status.
- Supports UAC and USB AUDIO (2 x UAC, 2 x USB AUDIO Channels).
- 8 MIC/LINE inputs, 8 balanced outputs.
- 8 AES67 network inputs, 8 AES67 network outputs.
- 3 auto-mixing channels. 1 acoustic echo cancellation (AEC) channel.
- Supports up to 24 internal matrix routing mix channels (8 analog + 8 network + 2 USB AUDIO + 2 UAC + 3 auto-mix + 1 AEC).
- 2 Gigabit Ethernet ports, each capable of simultaneously transmitting communication and audio data.
- 16 GPIO interfaces with customizable input/output direction.
- 2 RS485 interfaces that can be used in series (RS485 IN for input, RS485 OUT connects to another RS485 IN for simultaneous control).
- 1 RS232 interface.
- Adjustable sensitivity for each input (0dB / 15dB / 20dB / 24dB), with independent 48V phantom power control.
- Independently adjustable volume for input and output audio signals, range: Mute to +12dB.
- Optional DSP functions for input/output channels include: signal generator, noise gate, feedback suppression, equalizer, high-pass filter, low-pass filter, delay, expander, compressor, limiter, ducker, FIR, etc.

2. Technical Specifications

	Parameter	Specification
Audio Specs	Analog Audio Channels	8 In / 8 Out
	Network Audio Channels	8 In / 8 Out
	Sampling Rate	48k
	SNR	99dB @ re+4dB A-weighted
	THD + N	≤ 0.003% @ re+4dB A-weighted
	Channel Isolation	90dB @ re+4dB A-weighted
	Frequency Response	20-20kHz ±0.3dB
	Max Input Level	14dBu 1kHz THD+N<1%
	Max Output Level	14dBu 1kHz THD+N<1%
	Dynamic Range	109dB Re Max Output Level A-weighted
Power		90~260VAC 50/60Hz
Interfaces		Phoenix Input * 8
		Phoenix Output * 8
		GPIO * 16

		RS232 * 1
		RS485 IN * 1, OUT * 1
		RJ45 Port * 2 (Switching, Gigabit)
		USB Audio * 1 (Connect to PC)
		UAC / PLAYBACK * 1 (Connect to UAC devices)
Consumption		< 36W
