DIGISYN LINK
AES67 & **DSP** *built-in*

DMX232
32 x 32 AES67 Network Matrix Mixer

DL-32

AES67 Module   Auto Mixer   RAVENNA Partner
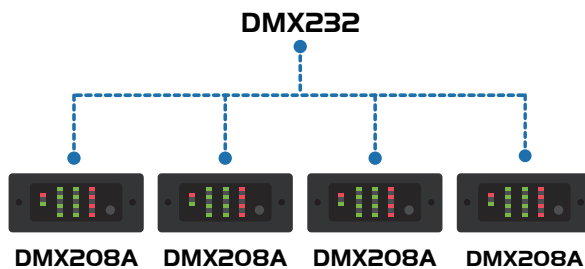
Distributed Network Mixing Hub

The DMX232 is a one-of-a-kind networked mixing matrix, constructed upon the foundational technology of the DSCORE audio workstation. It extends the application of the DIGISYN ecosystem to smaller scale systems such as BGM, education, and small conference rooms. Communicating with other network devices at the AES67 level, and integrating with the DMX208A matrix processor within the DIGISYN LINK audio network, it enables mixing of up to 32 analog plus network channels. The DMX208A is responsible for AEC, ANS, and AGC processing of each channel, while the DMX232 provides pure network mixing processing, taking charge of mixing the network channels from the DMX208A and sending the mixed network channels back to the DMX208A nodes, achieving an audio processing effect where 1 + 1 > 2.
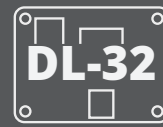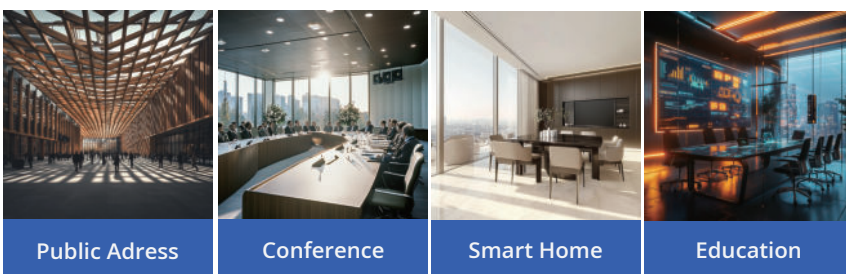

DMX232 Front

Up to 7 DMX208A units to form a 32 x 32 audio matrix.

DMX232

DMX208A   DMX208A   DMX208A   DMX208A

DMX232 Back

Network audio I/O streams

The DMX232 offers a total of 28 x 28 network and 4 x 4 analog audio I/O streams, designed to support the interconnection of multiple rooms and the centralization of audio networking IP nodes (such as the DLS series of network speakers, the DS series of network processors, the DSM series of network microphones, the DMX series of network matrices, and the DMA series of network adapters). The DMX232 provides users with a more compact, space-saving solution, optimizing conference spaces and allowing deployment in any confined area. Equipped with high-quality turbo silent fans, it remains inconspicuous even when placed under a desk.
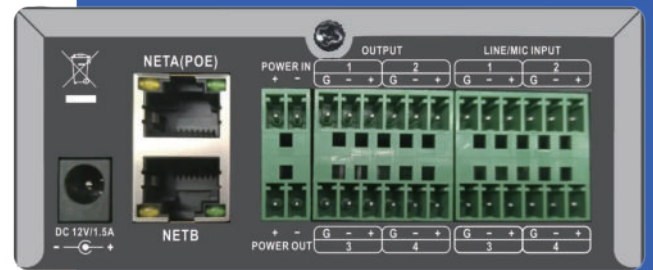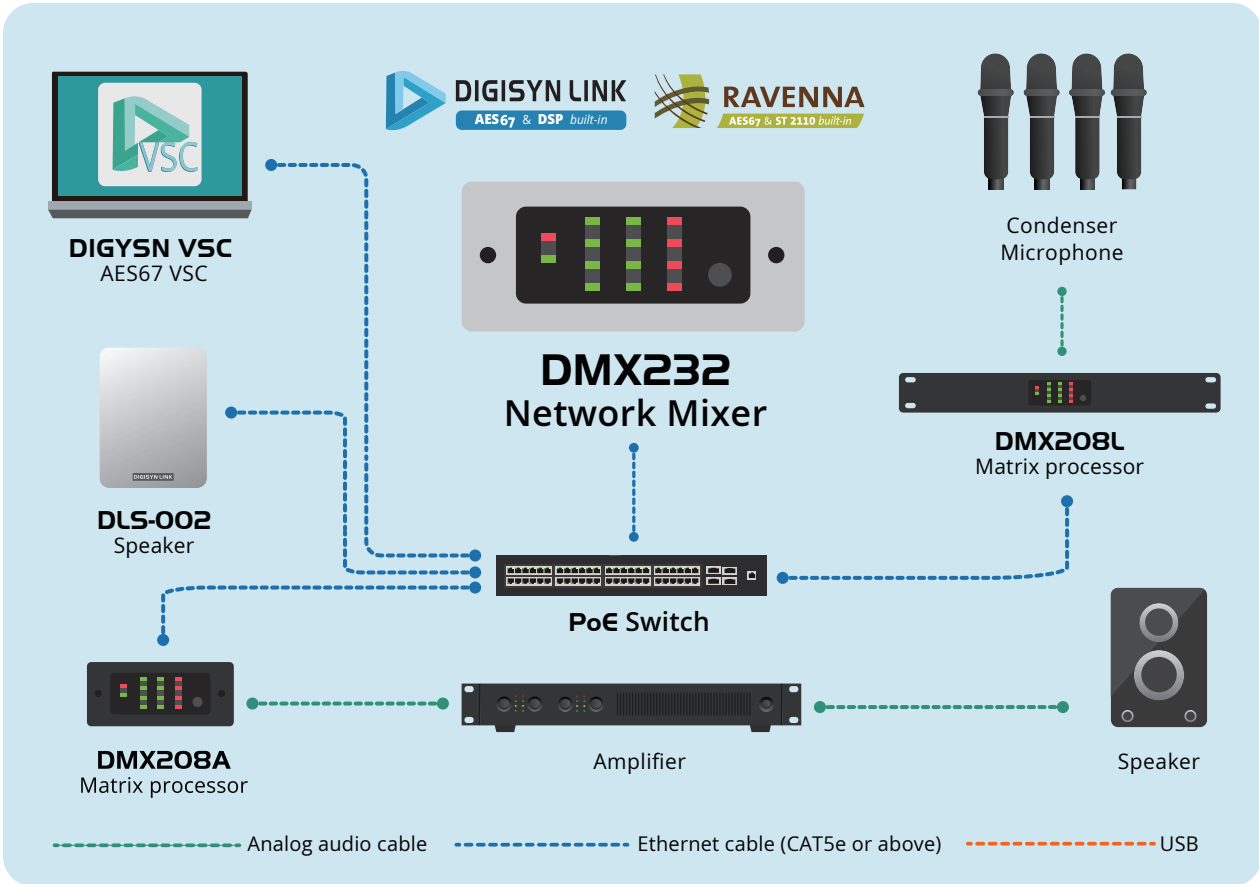
Key Features

- The form factor of a ¼ rack unit

- Supports gain sharing / gating mixing

- Powered by a ARM computing core

- Features 28 x 28 network channels

- Boasts total 32 x 32 mixing channels

- Expandable matrix, compatible with DMX208A. Can be concatenated to form a maximum 32 x 32 audio network.

Applications

| Public Adress | Conference | Smart Home | Education |

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Topology Diagram

Technical Specifications

Audio Functions	
Sampling rate	48 / 96 kHz
Network latency	1 ~ 6 ms
Bit depth	16 / 24 / 32 bit
Channel isolation	84 dB, A-weighted, re+4 dBu
Frequency response	±0.3 dB 20 Hz - 20 kHz
Maximum input/output level	14 dBu @ 1 kHz, THD+N ≤ 1%
Dynamic range	110 dB, A-weighted
Mic preamp gain	0 / 15 / 20 / 24 dB
CMRR	≥50 dB @ 1 kHz, re+4 dBu
THD+N	0.005% @ re+4 dBu, A-weighted, 1 kHz
Hardware	
Analog channels	4 in 4 out
Network channels	28 in 28 out
Power supply	12V DC 1.5A / PoE power supply
Phantom power	48V 10mA ripple ≤ 10mV
Analog interfaces	Phoenix connectors
Network	100 Mbps
Dimensions	108 x 149 x 45 mm
Net weight	0.7 kg