

AQA ElektriX - M/S-Matrix

About

The AQA ElektriX M/S-Matrix is extracting the mid and the side signal from an stereo audio signal. Also it can convert back the mid and side signal, providing a left/right stereo signal. This module can be very useful for manipulation of the stereo image of an stereo audio signal. Think about filtering just the side component by an high pass filter to get rid of stereo information in the bass frequencies for example. Countless other application can be thought of. The module creates the sum and the difference of the left and right channel to extract the mid (sum) and side (difference) signal. To restore the left / right stereo signal from the mid/side signal the mid-signal is just routed both to the internal left and the right output signal bus of the module while the side signal will be added to that bus differentially (non inverted to the left output and inverted to the right output).

Intro

Not that much to say about: The AQA ElektriX – MS-Matrix converts a left/right-stereo signal to its Mid and Side components and back to a Left/Right stereo signal.

Features

- stereo LEFT/RIGHT to MID/SIDE conversion
- stereo MID/SIDE to LEFT/RIGHT conversion

Functions

Audio Input jack L In & R In	-	Left and Right Input for a Stereo Audio Signal
Audio Output jack M Out & R Out	-	MID and SIDE Output for the converted Stereo Audio Signal
Audio Input jack M In & S In	-	MID and SIDE Input for a Stereo Audio Signal
Audio Output jack M Out & R Out	-	LEFT and RIGHT Output for the converted Stereo Audio Signal

The AQA ElektriX M/S MATRIX does 2 things: First, it convert a left/right-stereo-Signal into its mid and side components. The mid component is the sum of the left and right signal while the side component is the difference between left and right. Second, it converts a mid/side-stereo signal back into its left and right components.

This is very useful to change the base-width of a stereo signal for example.

Many other applications for that module are possible:

- changing the stereo base-width to mono for lower frequencies (using a inserted filter in the side-signal chain)
- compressing the side signal differently as the mid signal to exaggerate the „ambience“ of a recorded or mixed stereo signal
- endless possibilities for crazy manipulations of stereo signals.

Measures - 10TE

Power consumption - ca. 16 mA on -12V / ca. 16 mA on +12V

AQA ElektriX

Euro Rack Sized Synthesizer Modules
Made and Loved in Berlin

