Features
- Multichannel Microphone array module for UMIK-X kit
- Modular configurations
- Up to 16 ch USB audio recording
- Powered by A2Bmultichannel protocol for up to 40m cable
- Self powered mic modules

Technical Specs
- USB to A2B module
- Up to 16 x MEMS Microphones
- Low Distortion, High SNR
- Flat Frequency response
- Omnidirectional pattern

OS compatibility
- UAC2.0 with Windows ASIO driver, macOS driverless, Linux Alsa 2.0

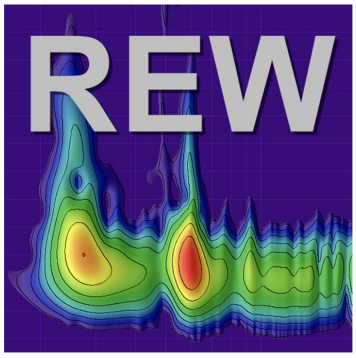
Applications
- Soundfield measurement
- Environment monitoring

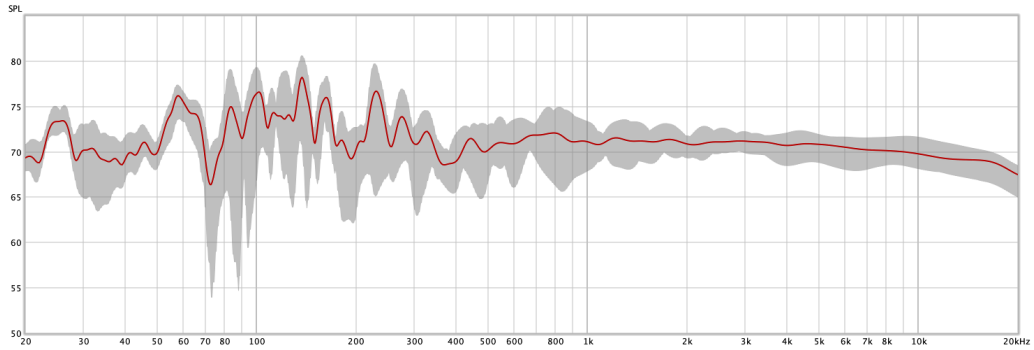
The miniDSP **UMA-XL module** is a distributed microphone array module as part of the miniDSP UMIK-X kit. Compared to the standard UMIK-X with UMA-4 with fixed rectangular array modules, the UMA-XL modules allow more flexibility in microphone placement. The daisy-chained modules can be spread out thanks to the Analog Devices A2B protocol. The chain can be up to 40 meters long.

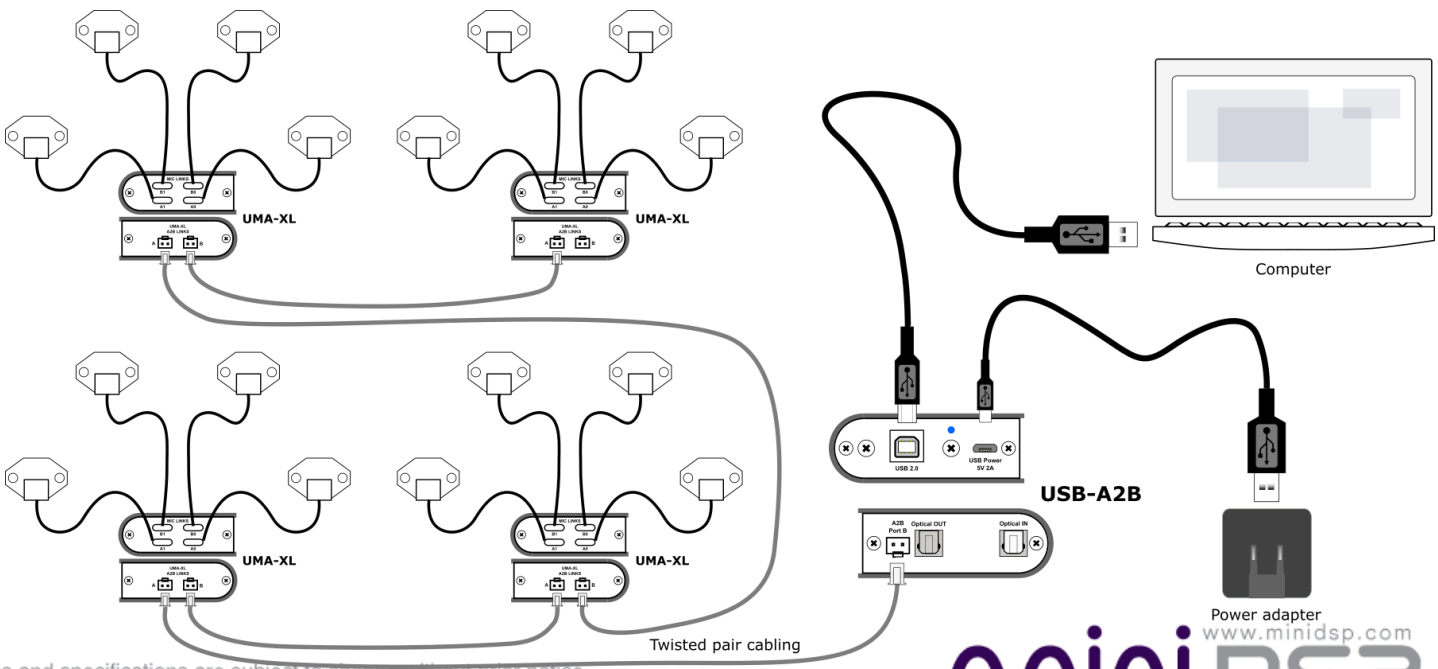
The 16 channels are interfaced via the included **USB-A2B** interface of the UMIK-X, which provides 16 channels at 24-bit/44.1 or 48 kHz. The USB-A2B is a UAC-2 compliant interface and is driverless for macOS and Linux. For Windows, an ASIO driver is provided.

The UMIK-X is compatible with the multi-channel measurement capability of Room EQ Wizard (www.roomeqwizard.com). Applications include environmental monitoring, distributed soundfield measurement, room and hall equalization and distributed subwoofer tuning.

SYSTEM DIAGRAM



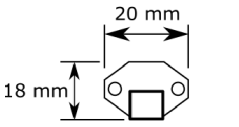




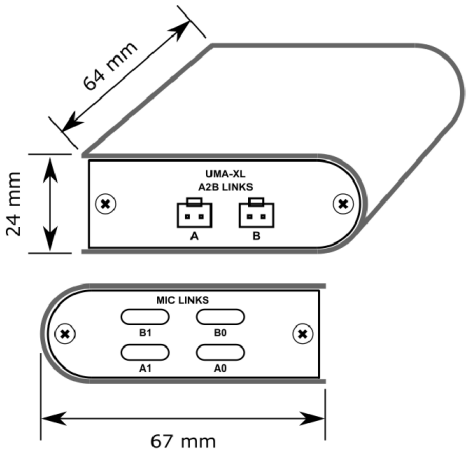
TECHNICAL SPECIFICATIONS - UMA-XL Module

Item	Description
Analog Devices A2B link	Multichannel audio link via A2B protocol. Dual port for Daisy chain up to 4 x UMA-XL/ UMA-4
MEMS microphones	4 x Knowles MEMS with low noise buffer and high performance modulator • Low distortion: 1% @ 130 dB SPL • Sensitivity: -37dBFS @ 94dB SPL (1kHz) • Acoustic Overload Point (AOP): 132.5dB SPL • High SNR: 66 dBA and flat frequency response • RF shielded against mobile interference • Ominidirectional pick-up pattern • Matched sensitivity for uniform response Short USB C cable for connectivity to A2B interface
Dimensions (mm) / Weight, interface module	24 x 64 x 67 mm / 80g

MECHANICAL SPECIFICATIONS



MEMS module



UMA-XL module

MIC LINK CONNECTIVITY

A2B CONNECTIVITY

MEMS PCBA + USB