
roon ready

DSD Direct Stream Digital

Hi-Res AUDIO

MQA

# M6x DAC: Our most advanced DAC

## Our flagship DAC: Made to satisfy the discerning Musical Fidelity customer Designed and built in Europe

**General Description**

Musical Fidelity drops another milestone. The M6x DAC incorporates the newest Sabre ESS chips – one for each channel to compliment the dual mono design front to back. The unbelievable detailed transient response is due to the Time Domain Jitter Eliminator.
Both outputs – the RCA and balanced XLR have thier own output buffers. The output stages offer superior audio quality due to ultra low noise, large output voltage and high current drive. The broad gain bandwidth and lightning fast slew rate result in exceptionally low distortion.

**Download HiRes images and product-information here**

**First step: Silence**

The M6x DAC employs our Super Silent Power Transformers. The industrial-grade power sockets with EMI filter and DC blocker stop interferences and eliminate transformer hum. The result is extremely low electromagnetic radiation.

**Tailored to perfection**

We have always held circuit board design and layout up to the highest standards. Design and structure must be custom tailored to every application to measure and sound great. The listener should have a holographic musical experience in their homes.

**Onboard headphone power**

The built-in headphone amplifier delivers wide bandwidth, extremely low noise, and high dynamic range.

**Sensible beauty**

The solid casework is uncompromisingly rigid. That not only makes the M6x DAC pretty to look at but also protects the circuitry from electromagnetic fields.

**In the end: Music**

The M6x DAC's connects the listener with their favorite artists on a hypnotic level. Carefully unpack the component, hook it up and feel the immediate musical integration: Sweet and clear treble, devoid of grain, paired with bottomless, tactile, and full dynamic low end. Those who want to delve deeper can utilize the customizable settings and make the M6x DAC a powerful tool for experts, which elevates it into a league of its own.

**DAC:**

- DAC Circuit: 32 bit Hyperstream II
- DAC Chip: 2x ES9038Q2M (dual differential)
- Total correlated jitter: <12 picooseconds peak to peak
- Linearity: <0.4dB down to -130dB
- Frequency response: -0,1dB at 10Hz, 0dB at 1kHz, -0,4dB at 20kHz
- Channel separation: >130dB at 10kHz @ 0dBFS
- Signal to noise: >120dB "A"- wtd 1kHz @ 0dBFS
- Total harmonic distortion: < 0,0005% at 1kHz @ 0dBFS

**Digital Inputs**

- 1x Coax, up to 24bit 192kHz (stereo PCM + MQA)
- 2x Optical, up to 24bit 192kHz (stereo PCM + MQA)
- 1x AES/EBU, up to 24bit 192kHz (stereo PCM + MQA)
- 1x USB Audio Class 2.0, 'USB B'; up to 32 bit 768kHz (stereo PCM + MQA), DSD 256 (stereo DoP), DSD512 (stereo native)

**Analogue Outputs**

- 1 pair line level RCA fix/var @ 2V RMS at 0dBFS
- 1 pair line level XLR fix/var @ 4V RMS at 0dBFS
- Output impedance: < 10 ohms
- 1 Headphone out 6.3mm jack variable

**Headphone Amp**

- Power: 1.5W / channel into 32 Ω
- Output impedance: Min. recommended 16Ω headphones
- THD: < 0,005% at 1kHz @ 0dBFS
- Signal/noise ratio: >115dB "A" wtd
- Frequency response: +0.1, -0.4dB 20Hz to 20kHz

**General Information**

- Dimensions (WxHxD): 440 x 100 x 390mm
- Main voltages: 230V/115V Internally set or 100V optional
- Max. Consumption: 20W, <0.5W in standby
- Weight: 6.9kg