



B1xi INTEGRATED AMPLIFIER

The B-Line Celebrates its Return
Musical Fidelity High-End Philosophy Made Even More Affordable

B1xi In Brief

Amplifier

- Fully discrete transistor based Class A/B power amp design in Musical Fidelity tradition
- Drives power hungry speakers with ease
- 60W/8 Ohm, 100W/4 Ohm & 140W/2 Ohm output power
- Power reserves for proper peak power delivery and wide dynamic range
- Pure sound quality instead of WiFi, display and App
 - No WiFi, display and App on purpose: Instead, we invest in components, which decide the sound quality

Preamplifier

- Low noise design for best THD and signal integrity at low as well as high levels
- High quality motor-driven analogue potentiometer
- Pre out for bi-amping or active subwoofer connection
- MM phono stage

Digital

- Separate digital and ARC boards with own linear PSU
- Up to 24bit/192kHz Stereo PCM:
 - 1x Coaxial, 1x optical, 1x ARC inputs
- Bluetooth 5.1 input

Power Supply

- Generously rated toroidal transformer
- Independent power supplies for preamp, poweramp and digital part
- Output devices, and power supply generously rated to provide peaks even into difficult to drive speakers
- 5V USB C power output to power many new modern external streamers

Mechanical Construction

- Uncompromising metal work in typical Musical Fidelity tradition
- Heavy front panel milled from extruded aluminium profiles
- Clean, stunning and indestructable metal exterior protects against electromagnetic

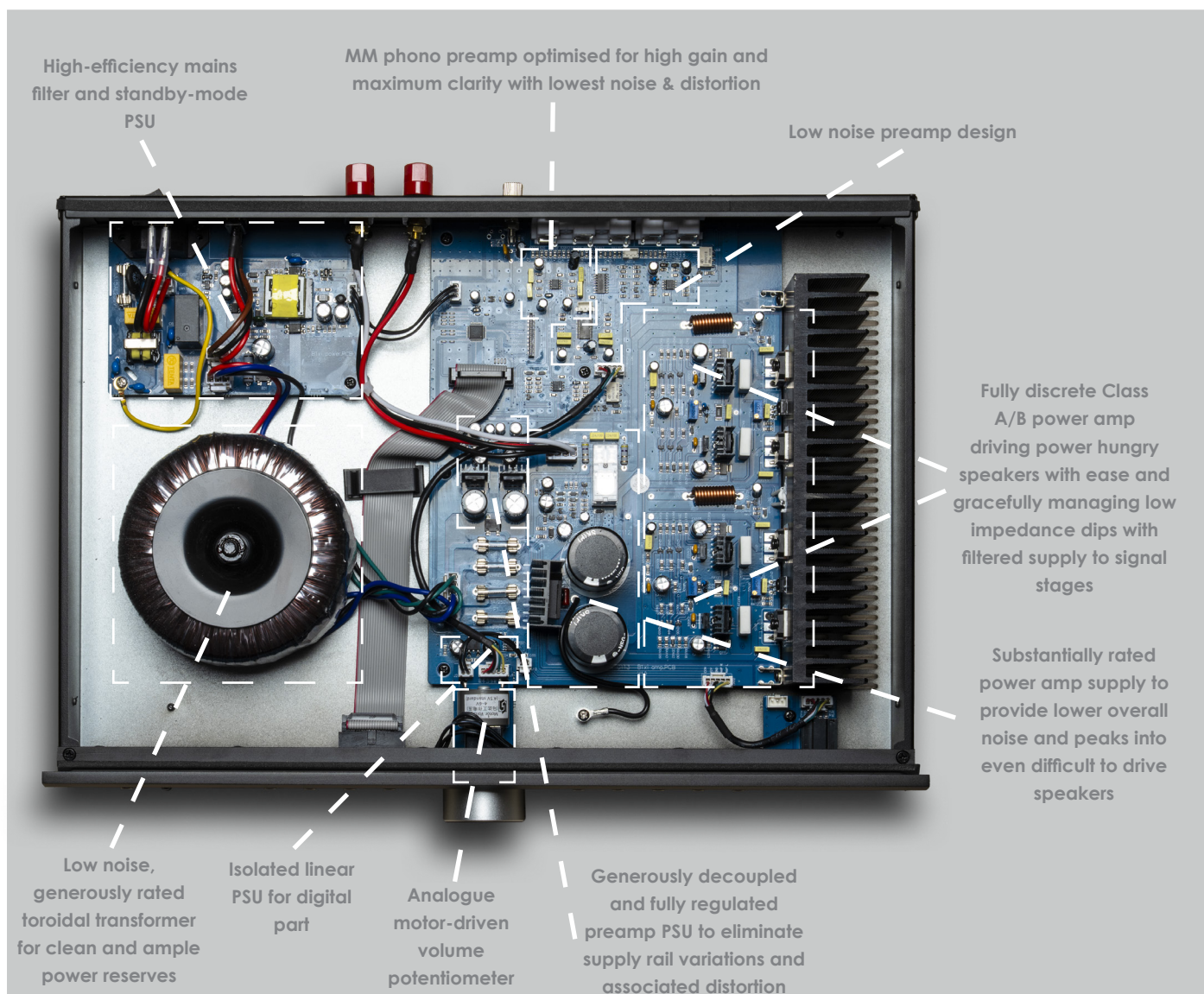
MUSICAL FIDELITY

The B1xi integrated amplifier channels **Musical Fidelity's renowned amplifier expertise** into a versatile, high-performance package. Driven by the design principles of our flagship models, the B1xi delivers **100W per channel into 4 ohms** through a **refined Class A/B** circuit, offering a **rich and dynamic tube like** sound.

Designed for today's diverse listening needs, it features a **comprehensive input selection**: MM phono stage, coaxial and optical digital inputs, ARC, Bluetooth, and three RCA line inputs—all engineered for

seamless source integration. A variable RCA pre-out supports subwoofer connection or bi-amping, while a 5V USB-C output provides convenient and clean high-quality power for an external streamer.

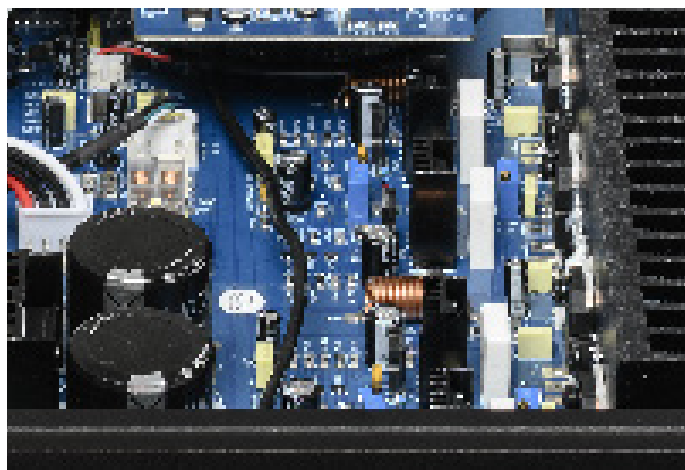
Encased in **robust all-metal** construction with solid **metal controls** and a solid **aluminum front panel**, the B1xi offers the sonic and build quality Musical Fidelity is known for, delivering a pure, uncompromised audio experience for discerning music lovers.



Pure Class A/B Excellence with True High-End Audiophile Design

Transistor amps in Class A/B are best after tubes and Class A amps. Musical Fidelity is tube like sound and power.

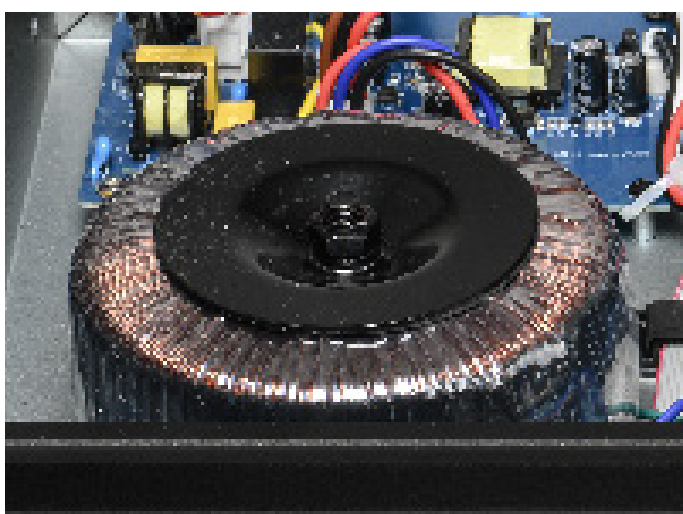
The B1xi delivers 60 watts per channel into 8 ohms, 100 watts into 4 ohms and 140W peaks into 2 ohms. It won't struggle to drive a wide range of speakers, even power-hungry models.



Discrete power and toroidal transformer

The **fully discrete Class A/B** power amp, complemented by its **dedicated power supply** and **generously proportioned toroidal transformer**, guarantees reserves for **proper peak delivery** and a **wide dynamic range**.

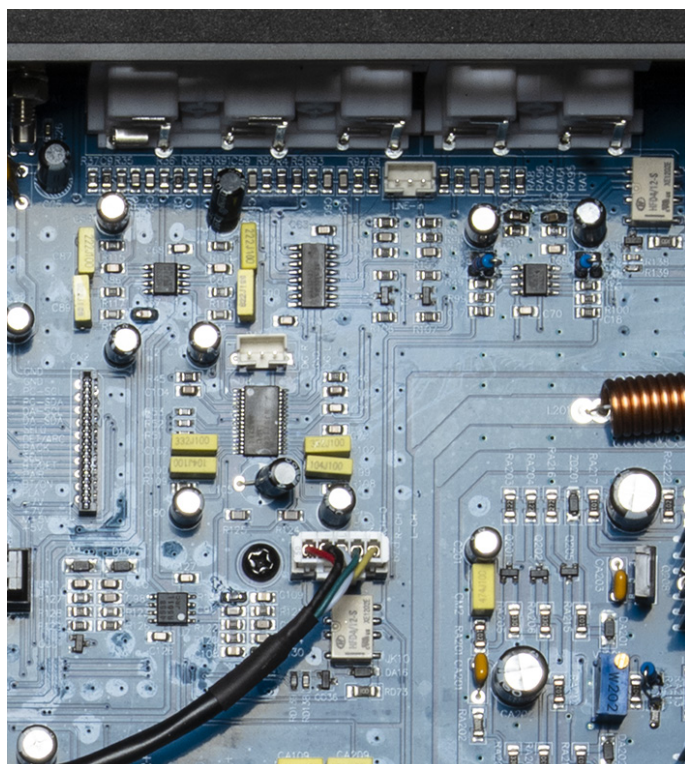
Power hungry and difficult speakers are driven with ease. Low impedance dips are managed gracefully and the judiciously rated output devices won't falter under any load.



Low noise preamp and phono stage

The preamp section features its own **dedicated linear power supply**—a rarity in integrated designs. This separation ensures **ultra-low noise and excellent channel separation**, rivaling high-end pre/power separates. Volume control is handled via a **motor-driven analogue potentiometer**, preserving signal purity—unlike many modern digital volume controls that compromise fidelity due to a loss in signal resolution.

Vinyl lovers will appreciate the B1xi's exceptionally **low-noise, high-gain phono stage**. Carefully tuned for **musicality and detail**, it brings out the best in your **MM** cartridges without adding coloration or distortion.



Separate digital boards

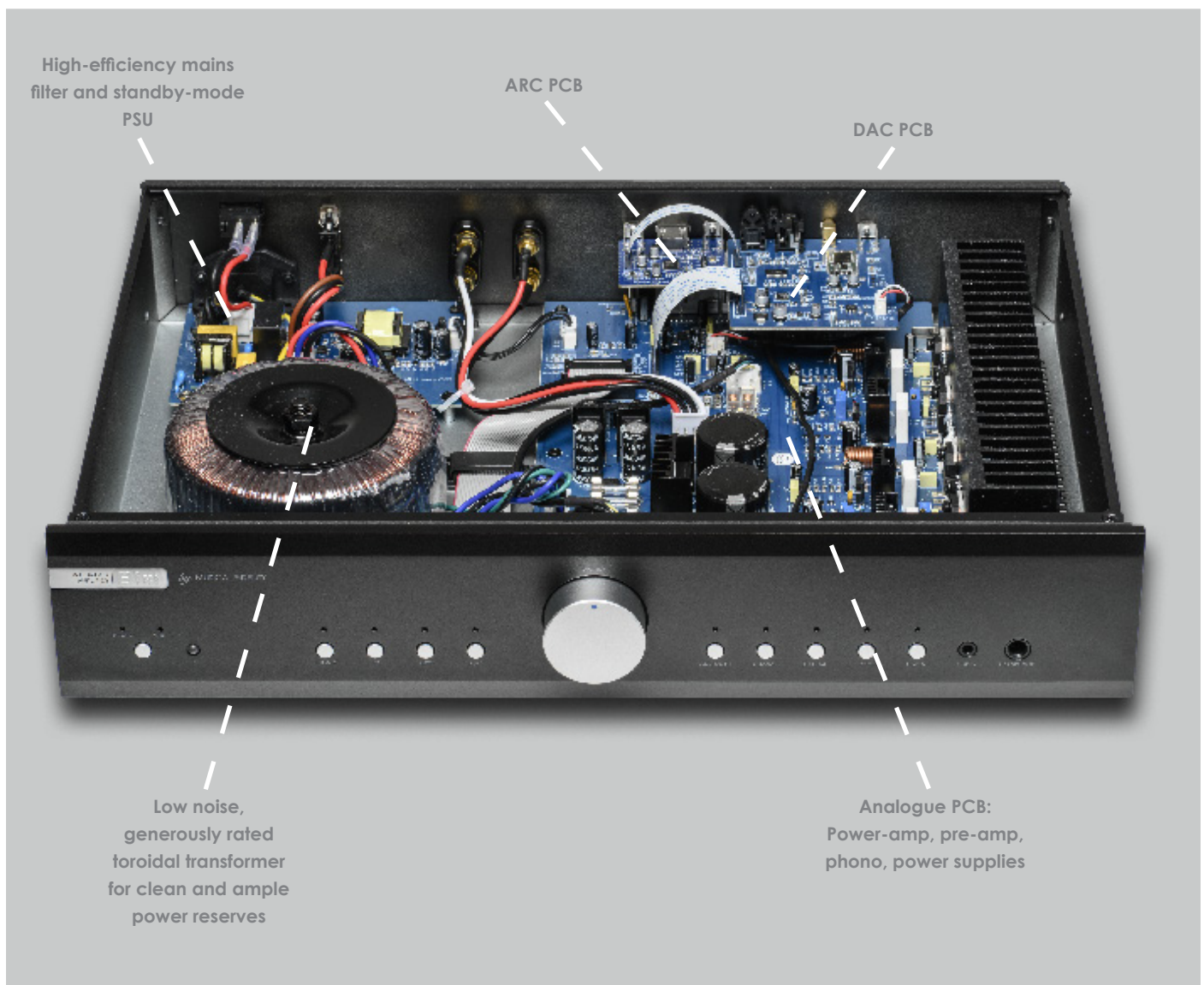
Digital and analogue hardware needs to be **carefully separated** from each other.

Even the **smallest amount of RF interference** is known to **cause trouble** for analogue amplifier stages.

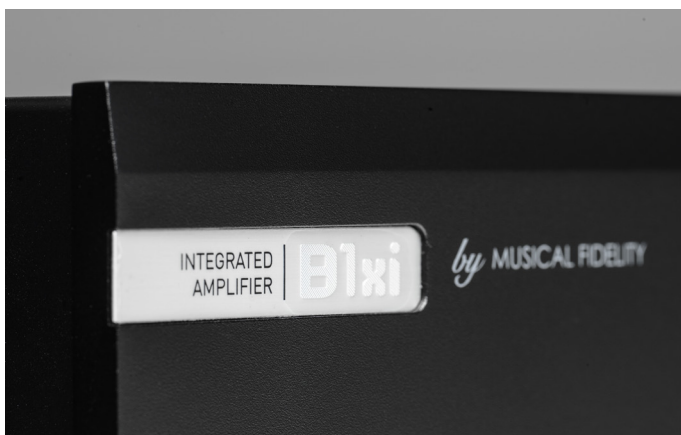
Therefore, the digital and ARC boards are **physically separated** on their own PCBs and have their **own linear power supply**.

Drawing from our decade long experience in designing DACs (recently with our ground-breaking Nu-Vista DAC and M8x DAC), the B1xi uses a **carefully trimmed DAC design** using the superb **ESS9018 chip**.

The digital coaxial and optical inputs accept high-resolution sample rates up to **24bit and 192kHz** and the **ARC ARC** input allows your **home theatre** to be brought to life and properly invigorated by the **powerful B1xi analogue amp stages**.



MUSICAL FIDELITY



Uncompromisingly heavy mechanical design

The inclusion of high-end elements such as the **robust metal controls**, **extruded aluminium front panel**, and **a chassis crafted entirely from metal**, the B1xi occupies an enviable position for discerning audiophiles seeking an **unadulterated high-end amplifier**.



No WiFi on Purpose

The B1xi remains **committed to sound quality** instead of WiFi, a display and an App.

There is **NO WiFi streaming** on purpose. We've seen a surge in offerings from HiFi companies with all-in-one solutions and unfortunately, such developments are **HUGLY EXPENSIVE** and on top **very maintenance heavy**.

Consequently, **manufactures started to save the money somewhere**: Cheap plastic cabinets, low-cost digital amplifiers, low-cost power supplies.

Musical Fidelity stands for **sound quality** and **robust design** that **lasts for decades**. We **INVEST** our money and resources in **top-tier hardware** and the **pursuit of optimal music reproduction**. This means: Robust mechanics - Discrete circuits - Huge transformers - Class A/B amps.

Fast moving **streaming technology** is best kept **separate** and therefore will not negatively impact the **lifecycle of the B1xi**.

For that reason, the B1xi features a **high-quality isolated USB C 5V power output** for your favorite modern streamer – effectively also doubling as a **power supply upgrade** for it.

The Audiophile Truth

Any **RF frequencies** are **influencing** the performance of the analogue amplifier.

Consequently, our design team, headed by chief technical director Simon Quarry:

- took one year to **improve the layout of the circuitry** and **match the boards in relation to the transformer**
- **Carefully selected components** for **long-term availability** and **reliability**, to avoid any change which would cause a redesign of the product

- **RF shielding** and **board placement** to **avoid interference** with analog stages

The B1xi achieves **price/performance** like never before for Musical Fidelity.

With **carefully selected components**, precisely tuned **circuitry layout** and years and years of **research and development** the B1xi stays **true to the Musical Fidelity philosophy** and makes **high-end affordable** like never before.





B1xi INTEGRATED AMPLIFIER

SPECIFICATION

Amplifier

- Power, both channels driven @ 1% THD:
60 Watts per channel into 8 Ohms; 100W into 4 ohms; 140W peaks into 2 ohms
- Power, both channels driven @ 0.09% THD,
20Hz to 20 kHz:
50 Watts per channel into 8 Ohms; 80W into 4 ohms
- Voltage 21 Volts RMS, 20Hz to 20 kHz; onset of clipping
- 30 Volts peak to peak
- Current 8 Amps peak to peak
- Damping factor 30
- Output devices 1 pair per channel

Line input

- THD+N < 0.02 % typical, 20Hz to 20 kHz
- Signal / noise ratio > 100dB 'A'-weighted
- Input impedance 47k Ohms
- Frequency response +0, -3dB, 10Hz to 30 kHz

Phono input

- Sensitivity (nominal): 5mV (suitable for cartridges giving 1.5mV or more including high output MC types)
- Signal / noise ratio: >70dB 'A'-weighted
- Input impedance: 47k Ohms
- Input capacitance: <100pF
- Gain: 42dB
- Frequency response: RIAA/IEC ± 1 dB, 20Hz to 20 kHz

Connections

- Line level inputs 3 pairs line level RCA connectors
- MM phono input
- Optical, coaxial, ARC digital inputs (up to 24bit/192kHz stereo PCM)
- Bluetooth 5.1 input
- 1 pair line level RCA connectors, preamp outputs for e.g. bi-amping
- Speaker outputs 1 pair 4mm banana plug/ binding posts

Power requirement

- Mains voltages 115/230VAC 50/60Hz (factory pre-set)
- 100VAC 50/60Hz (alternative)
- Consumption 280 Watts maximum

Weight

- Unit only, unboxed 7.2 kg
- In shipping carton 8.9 kg

Dimensions

- Wide 430 mm
- High, including feet 90 mm
- Deep (front to back) including terminals 324 mm