

A Four N200

Reference-Grade Network Integrated Amplifier

The **Orpheus Lab A Four N200** is a reference-grade network integrated amplifier that seamlessly bridges world-class Swiss analog engineering with modern, high-resolution digital streaming. Built on the exact same ultra-high-end core architecture as the critically acclaimed A Four I200 integrated amplifier, the N200 transforms a pure analog masterpiece into a comprehensive digital and streaming ecosystem without compromising a single ounce of sonic integrity.

CORE ARCHITECTURE: INHERITED EXCELLENCE

Because it shares its DNA with the I200, the A Four N200 retains the phenomenal dual-mono power plant and amplification stages that define the Orpheus Absolute line:

- **Muscular Swiss Power:** Delivers a conservative 200W per channel into 8 Ohms, utilizing a massive, true dual-mono power supply driven by twin 880VA toroidal transformers.
- **Impeccable Speaker Control:** Employs six hand-matched, high-power MOSFETs per channel with a massive damping factor of over 3000, ensuring an iron-fisted grip and effortless bass authority over even the most demanding loudspeakers on the market.
- **The Orpheus Sound:** Offers the brand's signature low-distortion signature (0.004% THD+N @ 1 kHz), ultra-wide frequency response (0.7 Hz to 85 kHz), and an incredibly low-noise floor.

THE DIGITAL HEART: PROPRIETARY 4-1-1-1 MULTI-DAC TOPOLOGY

Rather than treating digital playback as an afterthought, the N200 integrates the reference-grade conversion architecture originally developed for the Absolute Line CD Player. To eliminate timing errors and digital fatigue, a custom-programmed FPGA core acts as a master gatekeeper, synchronizing all incoming digital data under an ultra-high-precision internal master clock.

This pristine data stream is then fed directly into a world-class **ESS9028PRO Sabre DAC** configured in Orpheus's exclusive **4-1-1-1 topology**. By deploying four synchronous current-mode conversion channels per side and summing them into a single ensemble, the design mathematically drops the noise floor into a pitch-black abyss. Before reaching the preamplification stage, the reconstructed waveform passes through the custom-engineered, passive **Revival Filter**, which gently smooths away high-frequency switching noise to deliver a velvety, organic, and deeply holographic presentation.

KEY UPGRADES: THE DIGITAL & CINEMATIC EVOLUTION

While the original I200 focuses purely on an analog landscape, the N200 Network Amplifier adapts to modern luxury audio workflows by introducing vital digital connectivity and system integration tools:

• Comprehensive Digital & Network Hub

The N200 integrates a premium digital-to-analog stage and direct network streaming capabilities with native support for **Qobuz Connect, Tidal Connect, Spotify Connect, UPnP, and Roon Ready** protocols. Physical digital inputs include Ethernet, USB, AES/EBU, S/PDIF, and Toslink (optical).

• Dedicated Subwoofer & System Expansion

The N200 features a newly integrated **balanced XLR Pre-Amp Out**. This enables a seamless connection to high-end active subwoofers or external power amplifiers, allowing users to effortlessly expand their audio setup into a true full-range, 2.1-channel or bi-amplified ecosystem.

• Home Cinema Bypass (Pass-Through)

Designed to sit at the heart of an elegant, multi-purpose living space, the N200 features a dedicated home cinema pass-through operation allowing direct connection to an AV processor.

TECHNICAL SPECIFICATIONS

INPUT & CONNECTIVITY

Analog Inputs	3x XLR (Balanced), 3x RCA (Unbalanced)
Analog Outputs	1x Balanced XLR Pre-Amp Out (Dedicated Subwoofer / Expansion)
Digital Inputs	1x Ethernet (RJ45), 1x USB, 1x AES/EBU, 1x S/PDIF, 1x Toslink (Optical)
Network Protocols	Qobuz Connect, Tidal Connect, Spotify Connect, UPnP, Roon Ready
Input Impedance	94 k Ω (Balanced & Unbalanced)

AMPLIFIER OUTPUT & PERFORMANCE

Nominal Power (Class AB)	200 W @ 8 Ohm per channel
Instantaneous Power Peak	850 W (<200 ms; max 56.7 V _{pic} , 15 A _{pic})
Damping Factor	> 3000
Frequency Range	0.7 Hz to 85 kHz (-3 dB) / 5 Hz to 24 kHz (+0 dB, -0.1 dB)
THD+N	0.004% (-88 dB) @ 200W into 8 Ohm (1 kHz, analysis 20 Hz – 22 kHz)
Cinema Integration	Dedicated Home Cinema Bypass (Pass-Through)

DIGITAL-TO-ANALOG (DAC) STAGE

DAC Chipset	ESS9028PRO Sabre DAC
Architecture	Exclusive Orpheus 4-1-1-1 Topology (4 synchronous current-mode channels per side)
Clock Management	Custom FPGA Master Gatekeeper with Ultra-High-Precision Internal Master Clock
Reconstruction Filter	Custom Passive Revival Filter

SAFETY & POWER FEATURES

Overload Protection	Non-invasive protection against audio signal overload at > 9 Apic (320 Wpic @ 4 Ohm)
DC Protection	Non-invasive protection against DC components on outputs for all frequencies < 5 Hz
Line Protection	Automatic switching to MUTING if the AC line voltage drops or is interrupted

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