

ESOTERIC

Network Streamer/DAC

Grandioso N1
Network Player/DAC





Grandioso

A Symphony of Majesty and Elegance

In music, Grandioso represents more than just a style.

It embodies grandeur, majesty, and a sense of dignified brilliance.

It's a term that resonates with those who seek perfection,
capturing the essence of something truly extraordinary.

Esoteric Grandioso series draws inspiration from this musical ideal,
delivering audio experiences that are nothing short of majestic.

Crafted for connoisseurs who demand the pinnacle of performance,
it transforms every listening moment into a masterpiece.

Since its founding in 1987, Esoteric has been a trailblazer in high-end audio innovation, earning global recognition as the pinnacle of Japanese audio excellence. Renowned for pushing the boundaries of master sound reproduction, Esoteric combines groundbreaking audio engineering with an unwavering pursuit of perfection.

Each Esoteric masterpiece is a testament to “museum-quality” craftsmanship, where precision engineering seamlessly blends with artistry. Esoteric products are not merely audio equipment; they are works of art, designed to celebrate the beauty of music in its purest form. Every detail from cutting-edge audio technologies to breathtakingly elegant designs is crafted to honor the dignity of music reproduction.

In classical music, a phrase that indicates how a piece of music should be played is called an expression mark. For example, “cantabile” (as if singing), “legato” (smoothly), and so on. A flagship model should have the dignity and stature of a top-of-the-line product. We named it “grandioso” (grand, majestic, dignified), which we likened to the expression mark of classical music.

Since its launch in 2013, the Grandioso series has established itself as an icon of innovation in high-end audio, introducing a number of groundbreaking technologies. These include the legendary Super Audio CD transport mechanism VRDS-ATLAS, the proprietary Master Sound Discrete DAC and Master Sound Discrete Clock built on unique discrete circuitry, the advanced Esoteric Network Engine G4, the revolutionary Esoteric MagneDrive System, the MC Balanced Current Input System, and the ES-Link 5 / ES-Link Analog signal transmission technologies.

Powered by Next-Generation Discrete DAC and Network Audio Engine

The Grandioso N1 is a Network Streamer / DAC designed to deliver the finest high-quality streaming audio. It incorporates the newly developed **Master Sound Discrete DAC G2** (Generation 2) converter circuit, which has evolved to new heights while preserving its renowned musicality. The N1 also incorporates the next-generation **Esoteric Network Engine G4** features an SFP port and delivers powerful processing capabilities with high-fidelity sound worthy of a true flagship model.

Meticulously engineered, the N1's internal DAC employs a **fully dual-mono configuration** with completely independent power supplies for left and right channels. The large-scale architecture incorporates total **five independent linear power supplies** dedicated to key internal circuit blocks, achieving a smooth, full-bodied sound reminiscent of vinyl playback.

Your Gateway to the World of Music – From the comfort of your listening chair, the Grandioso N1 connects you to all the music in the world. Stream effortlessly and immerse yourself in a luxurious musical journey with breathtaking sound quality.



Grandioso N1
Network Player/DAC

Grandioso N1 – Key Features

- **Network Streamer / DAC:** Designed for high-end digital music streaming and file playback.
- **4th-Generation Esoteric Network Engine G4:** Supports native DSD 22.5 MHz playback; equipped with SFP port.
- **Master Sound Discrete DAC G2:** New-generation FPGA based Multi-Level $\Delta\Sigma$ DAC, fully designed and manufactured in-house using precisely selected discrete components.
- **ES-Link Analog:** Esoteric's proprietary current signal link with preamp, provides super authentic sound.
- **Independent x5 Linear Power Supplies (Dual Mono DACs/Network/Digital Audio/Microcomputer):** Provides powerful clear sound.
- **Low-Feedback Discrete DC Power Regulator:** Contributes to live and open sound quality.
- **External Power Supply Connectivity:** Compatible with the Grandioso PS1, offering upgradability for even higher sound quality.
- **ES-Link5:** Esoteric's proprietary ultra-wideband HDMI cable link with Grandioso P1X SE SACD transport.
- **Wide Range of Digital Connectivity:** ES-Link5 x1 [L/R], USB x1, XLR x1, Coax x1, Opt x1.
- **Music Server Function:** Two USB drives can be connected.
- **Master Sound Discrete Clock for Digital Player:** Ultra-high precision internal clock circuit.
- **10MHz Clock Sync Capability:** Compatible with the Grandioso G1X master clock.
- **Wide Range of Supported File Formats:** DSF, DSDIFF, FLAC, ALAC, WAV, AIFF, MQA, MP3, AAC.
- **Esoteric Sound Stream App:** Provides extremely comfortable operation on smartphone/tablet.
- **Support for Multiple Streaming Services:** Tidal, Tidal Connect, Qobuz, Qobuz Connect, Roon, Spotify.
- **Multi-Layer Chassis:** Prevents interference between circuit components.
- **Semi-Floating Top Panel:** Enhances sonic openness.
- **Advanced Isolation Feet:** Provides focused sound and an open soundstage

Master Sound Discrete DAC G2 – Key Features

- **FPGA-Based, Multi-Level $\Delta\Sigma$ D/A Converter:** Designed and manufactured fully in-house.
- **Proprietary 64-bit/512-Fs $\Delta\Sigma$ Modulator:** One of the most powerful processing capabilities in the industry.
- **Unique Discrete Circuit:** Completed without using conventional DAC chipsets.
- **FPGA Digital Processing Algorithms:** Independently optimized for DSD and PCM, with dedicated algorithms developed separately for each format.
- **Industrial-Grade, Ultra-High-Precision MELF Resistor Elements**
- **Manufactured in the Esoteric Factory:** One of the world's premier PCB mounting facilities, equipped with oxygen-free reflow furnaces and hospital-grade clean rooms.
- **Extensive Use of Audio-Grade Components:** Including Esoteric's exclusive IDM-01 amplifier elements.
- **Newly Designed, High Power / Low Noise, Resistor Switching Flip-Flop Circuit** ^{G2}
- **Redesigned Power Supply:** Extensively separated FPGA power lines, and hot/cold analog power lines, achieving ultimate supply purity. ^{G2}
- **High-Current Dual Buffer Design (x4 Circuits per Channel):** Derived from the flagship Grandioso D1X SE architecture. ^{G2}

^{G2} : New Features of the G2 (Generation 2)

Master Sound Discrete DAC G2

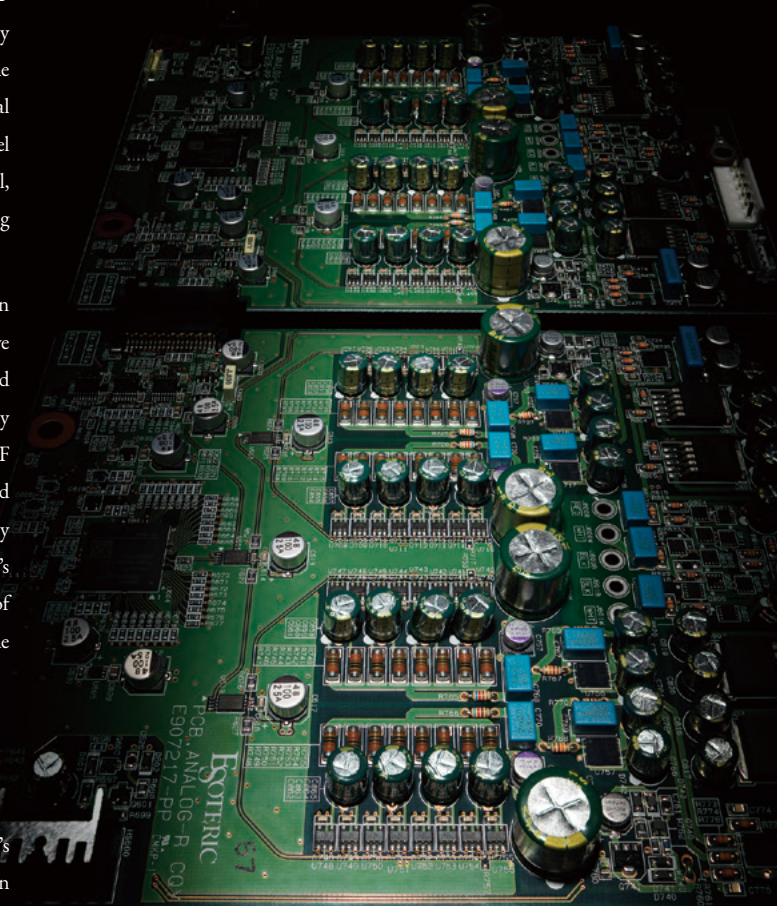
Bringing Out All the Dynamics and Energy of Music

Esoteric **Master Sound Discrete DAC G2** is a fully in-house-designed, FPGA-based, multi-level $\Delta\Sigma$ (delta-sigma) D/A converter built with meticulously selected discrete components. The ultimate goal is to effortlessly reproduce the true dynamics and power of music, far surpassing the limitations of conventional DAC IC chips. Its large-scale circuit design comprises 32 elements per channel and features completely independent key components. Breathtakingly powerful, dynamic, and musical, this architecture delivers the ultimate pure listening experience, without compromise.

Esoteric **Master Sound Discrete DAC G2** supports the latest high-resolution digital formats, including 22.5 MHz DSD and 768 kHz PCM signals. To achieve D/A conversion that fully matches the unique characteristics of both DSD and PCM, dedicated FPGA digital processing algorithms have been independently developed for each format. The DAC employs ultra-high-precision MELF resistors and **IDM-01** amplification elements. By integrating these selected discrete components, the Grandioso N1 achieves sound quality marked by vivid live presence, superb dynamics, and an organic, natural texture. Esoteric's advanced board-mounting technologies cultivated through the production of circuit boards for the audio, medical, aerospace, and defense industries ensure the exceptional manufacturing quality of the **Master Sound Discrete DAC G2**.

ES-Link Analog – Esoteric's Proprietary Current Transmission

In addition to line connections (XLR, RCA), **ES-Link Analog**, Esoteric's proprietary current transmission system, is employed for connection to an amplifier. **ES-Link Analog** is the ideal method for audio signal transmission. Compared to the conventional voltage transmission, it transmits approximately 100 times more current, sending the full energy of the music to the amplifier. Also, it is not affected by the impedance of the interconnects running between the source and amplifier, so it maintains a perfect integrity between the output signal of the source and the input signal to the amplifier.



Evolution to G2 (Generation 2)

Our commitment to achieving new heights in sound quality.

High-Power / Low-Noise, Newly Designed Flip-Flop Circuit

In the upstream digital domain (the circuit that converts digital signals from the CPU into analog signals by passing them through resistor elements), the Flip-Flop IC controlling the on/off state of these resistor elements has been redesigned for optimized performance. The addition of capacitors near the IC further improves current supply speed and reduces noise.

Even Purer Separate Power Supply Lines

A new approach was adopted that involved separating the power supply lines for the FPGA and the other digital domain circuits, as well as the hot and cold power supplies for the analog domains. Each section is powered by its own power regulator. Reconstructing the power lines further improved sound purity.

Dual Buffer Circuit Equivalent to the Grandioso D1X SE

The analog output buffer amplifier, **Esoteric-HCLD (High Current Line Driver)**, boasts an astonishing high-speed slew rate of 2,000 V/ μ s. The number of HCLD components has been doubled, implementing the same dual-buffer configuration (four circuits per channel) as used in the Grandioso D1X SE. This design further strengthens current output, delivering ultra-fast attack and enhanced dynamics.

ESOTERIC Network Engine G4

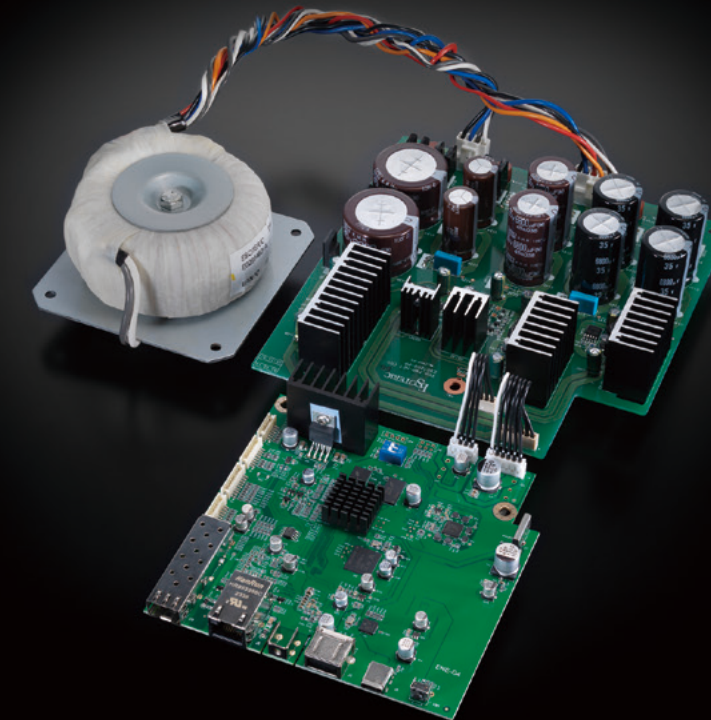


Master Sound Discrete Clock for Digital Player

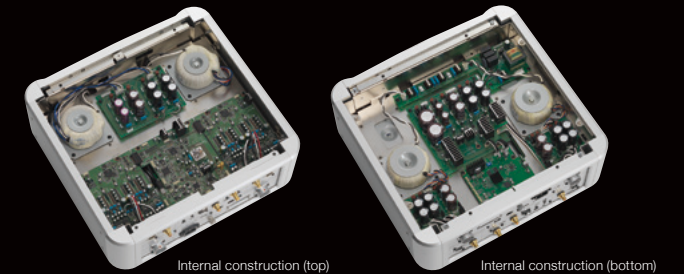
For its flagship master clock generator Grandioso G1X, Esoteric has perfected its own in-house manufactured OCXO clock module, the **Master Sound Discrete Clock**. The **Master Sound Discrete Clock for Digital Player** used in the N1 applies the basic design concept of G1X's in-house manufactured OCXO module to the internal clock of the digital player models. The unique circuit design using carefully selected discrete components, such as a large crystal oscillator, achieves high sound quality that reflects Esoteric's philosophy in every detail. The N1 can be connected to the **Grandioso G1X** external master clock generator, enhancing sound quality by synchronizing its internal circuitry to an even more precise 10 MHz reference clock.

Robust Power Supply Circuit

The N1's robust power supply design is central to its powerful, three-dimensional sound and lifelike sound. Following the design philosophy of the flagship Grandioso series, this stereo unit features a true dual-mono configuration with independent power transformers for the left and right DACs. In total, the system incorporates **five transformers**: one each for the left and right DACs, one for the network engine, one for the digital circuitry, and one for the microcontroller circuitry. Driving each section with a dedicated linear power supply produces a smooth, realistic sound reminiscent of vinyl playback. Each power supply section employs a **Low-Feedback DC Regulator** with a discrete configuration that eliminates the use of integrated circuits. By minimizing feedback, the N1 achieves a powerful, open, and natural sound.



Esoteric Network Engine G4 (front) and its dedicated linear power supply system



Internal construction (top)

Internal construction (bottom)

The Grandioso N1 is equipped with the 4th generation **Esoteric Network Engine G4**, a top-of-the-line engine with the processing power worthy of a flagship network player / DAC. The G4 engine features large-capacity RAM, a powerful CPU, and an SFP port for optical network connections.

The **Esoteric Network Engine G4** is a concentrated embodiment of the design philosophy unique to high-end products. It boasts a dedicated linear power supply that is completely independent of the audio power supply, ensuring signal purity. Each component of the engine is independently powered through separate transformer windings. Moving beyond conventional switching power supplies, Esoteric incorporates premium components such as a large toroidal transformer, custom capacitors, Schottky barrier diodes, and other oversized parts. This meticulous engineering results in a sound that is smooth, vinyl-like, and richly detailed.

The **Esoteric Network Engine G4** has two network interfaces: an Ethernet RJ45 connector and an SFP port. By connecting the N1 to an external network switch using an SFP module and fiber optic cable, you can isolate the signal from network noise, achieving unparalleled purity in playback. Alternatively, a metal cable connection using a Direct Attach Cable (DAC) can simplify the network signal path by reducing the number of circuits involved. For maximum flexibility, both the RJ45 and SFP ports can be used simultaneously, tailoring the setup to your preferences and requirements.



Grandioso N1
Network Player-DAC



Network Streamer/DAC

Grandioso N1



Specifications

Digital audio inputs:	ES-LINK×1, XLR×1, RCA×1, OPTICAL×1, USB TYPE-B×1, SFP×1, ETHERNET×1, USB DRIVE×2
Analog audio outputs:	ES-Link Analog×1 pair, RCA×1 pair
Clock sync input:	BNC ×1 (50Ω, 10MHz)
External control input:	12V Trigger ×1 (3.5mm mono mini jack)
Frequency response:	5Hz to 30kHz (−3dB)
S/N ratio:	113dB (A-Weight)
Distortion:	0.001% (1kHz)
Power:	120V AC 60Hz, 220-240V AC 50Hz, 220V AC 60Hz
Power consumption:	38W (Standby Power: 0.3W)
Overall dimensions (W×H×D):	445×162×447mm / 17 5/8" × 6 1/2" × 17 5/8" (Including Protrusions)
Weight:	27.8kg / 61 1/2 lbs.

- These products are available in two different power supply variations as shown in the specification page. Make sure that the voltage shown on the rear panel matches the AC line voltage in your area.
- The shape of the AC inlet and plug of the supplied power cord depends on the voltage rating and destination country.

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Esoteric Brand Website ▶
<https://www.esoteric.jp/en>



Grandioso PS1
External Power Supply



External Power Supply Unit (option)

Grandioso PS1



Specifications

Power:	120V AC 60Hz, 220-240V AC 50Hz, 220V AC 60Hz
Power Consumption:	17W
Overall Dimensions (W×H×D):	445×132×452mm / 7 5/8" × 5 1/4" × 17 5/8" (Including Protrusions)
Weight:	23.7kg / 52 1/4 lbs.

ESOTERIC



Grandioso N1 + Grandioso PS1



Grandioso P1X SE Super Audio CD Transport + Grandioso N1

Authorized Dealer