

# Helios N-1



In the world of high-fidelity audio, the network is often a major source of invisible interference. The Ethernet connection is a gateway through which not only data, but also high-frequency noise and earth loops enter your system.

Addressing these disturbances is essential because they are passed on via the Ethernet cable to connected audio components, such as streamers or network players. The Helios N-1 is engineered to eliminate these digital pollutants, delivering a signal that is fundamentally cleaner, more stable, and truer to the original recording. For optimal performance, connection to **Sygnus X-1 or X-2** power processors is highly recommended to establish a foundation of clean Earth.

## Essential features

- Dual-Transformer Isolation** The Helios N-1 employs two high-grade transformers connected in series. This "double barrier" approach provides superior common-mode rejection. By creating a physical break in the galvanic path, we ensure that leakage currents and EMI stay where they belong: outside your audio chain.
- Center-Node Earth System** The heart of the design lies in the node between the two transformers. This junction is strategically shunted to earth via a dedicated earth connection. This system provides a facility to bypass noise and interference, ensuring the unit references a clean earth supplied by a Sygnus connection. This eliminates earth-loop interference, resulting in an absolute silence against which the music is played

## The Sonic Result

The purity of the earth reference and the total galvanic separation ensure that your streamer operates with maximal precision.

- Sharper transient attacks and greater micro-detail.
- A perceptibly "blacker" background and improved spatial definition.
- A richer, more organic sound, removing the "hard" quality often associated with digital noise.

## Audio-Optimized Data Rate

The Helios N-1 is intentionally designed with a 10/100Mbps data rate. Unlike standard Gigabit (1Gbps) hardware, the Helios N-1 prioritizes signal purity. High-speed networking components generate significantly higher levels of high-frequency noise which can pollute sensitive circuitry. Our 100Mbps architecture ensures a significantly lower noise floor, preserving the delicate nuances of your music.

## Specifications

Parameter	Minimum	Typical	Maximum	Unit
Topology	Dual-Stage Galvanic Series Isolation			
Standard Compliance	IEEE 802.3, IEEE 802.3u			
Port Type	Unshielded RJ45 (UTP)			
Data Rate	10 / 100			Mbps
Isolation Voltage	1500			V
Earth Connection	150cm lead with 4mm gold plated banana			
Dimensions (WxDxH)	50 x 90 x 33			mm
Enclosure	CNC milled aluminum, black anodized			
Weight	0,15			kg

