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perspective

Streaming from a different point of view

With so much conventional high-tech available, it's easy to just cram a box full of hardware, software, power supplies and displays. But do that, and you'll get a conventional streaming sound.

From our perspective, this approach is fundamentally flawed for serious music replay. The required technology can only be successfully deployed when it is combined with non-intrusive noise and error reduction strategies.



Error reduction is a concept that traditionally employs large amounts of correction and concealment software, upsampling and reclocking, but this approach has two flaws. Firstly, correction algorithms always damage sound quality and secondly, mistakenly relying on them means little effort has been taken to minimise damage at

the source. Another problem is that the technology necessary for streaming is inherently extremely susceptible to noise in every domain. If left unchecked, Radio Frequency Interference (RFI), Electromagnetic Interference (EMI) and acoustic vibration strip away all hope of achieving true high-end performance.

result

Streaming with effortless musical performance

A comprehensive and media rich streaming system is a delight of new discoveries – but the musical performance must not leave the experience wanting.

The T-Series Streamer is painstakingly designed and built to minimise errors in all its power supply, digital and analogue circuits for a musical performance that has it all – delicacy and detail, tonal richness, bandwidth, imaging and effortless drive.



Two boxes, massive heatsinks, no displays – these are the first things that stand out when you see the T-Series Streamer. Two boxes separate the linear power supply from the digital electronics, the huge heatsinks allow conductive heat pipe cooling and the

avoidance of onboard control systems significantly reduces noise. And it's extremely fast – quad core processing and top-spec memory, buffers and storage ensures massive headroom for all the necessary processing functions.



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digital head unit



Main Features

Intel® i7 quad-core processor with passive heat pipe cooling.

Total shutdown of all non-essential background software.

High-speed Dual Channel DDR4 RAM (32Gb).

V-NAND Solid State Drive (512GB, 1TB or 2TB) for seamless buffering/high-speed data transfer.

Highly stable Precision Oven-Controlled Oscillator (OCXO) to minimize jitter.

Onboard DAC with RCA analogue outputs.

Comprehensive RFI, EMI and vibration reduction strategies throughout internal construction.

Formats

FLAC, ALAC, WAV and AIFF up to and including 192KHz 24 bit PCM

DSD256 over PCM (DoP) using USB 2.0 output.

Connectivity

PSU DC inputs via 12-way screw lock connector.

HDMI out, highspeed Intel® GbE LAN, 2 x USB 2.0 outputs, optical TOSLink S/PDIF out.

BNC and RCA S/PDIF out, analogue L/R out, digital ground connection (RCA), LED defeat switch.

Main board DC inputs and control logic via 26-way screw lock connector.

Serial comms connector.

The Digital Head Unit employs open architecture hardware and software and has been designed to be as quiet as possible by minimising the number of noisy sources such as displays, LEDs and microprocessor controls. It also includes extensive anti RFI and anti-vibration technology to further lower the effects of self-generated noise and prevent both backward pollution through to the LPSU and forward pollution to an external DAC or preamplifier.



linear power supply unit

Main Features

Mains input protected from mains noise and vibration with shunt filtering and two-stage acoustic absorption.

Custom mains transformer housed in decoupled and EMI absorptive module.

Highly optimised rectification and discrete component linear regulation for all DC outputs.

Multiple banks of low-value audio grade reservoir caps.

Incorporates full startup self testing logic and continuous fault protection systems.

Passive cooling with multiple heatsinks and conductive heat paths.

Comprehensive RFI, EMI and vibration reduction strategies throughout internal construction.

Connectivity

Isolated sub-panel with LED defeat switch and DC regulation ground connection (RCA).

CPU DC outputs via 12-way screw lock connector.

Mains fuse and mains IEC input.

Chassis Earth binding post.

Main Board DC outputs and control logic via 26-way screw lock connector.

The design of the Linear Power Supply Unit (LPSU) avoids as much as possible noisy power supply processes, employing discrete component regulation and significant RFI, EMI and microphony reduction technologies. The result is a power supply that is highly stable and fast with a very low noise floor. The LPSU also carries out all the power startup and self-test functionality for the DHU, ensuring safe and reliable operation.



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engineering

Advanced decoupling, barriers and acoustic drains

Extensive engineering inside and out makes a world of difference to the systems within the T-Series Streamer.

From the anti-resonant casework with acoustically disruptive panels and heatsinks, the EMI absorbent linings and the multiple acoustic absorption modules to the 'direct to component' acoustic drains, no opportunity is missed.



Engineering Features

Casework incorporates acoustically disruptive machining and isolated connectors to reduce microphony.

Non-metallic top panels and integrated EM absorption reduces chassis eddy currents and internal EM interference.

Mains transformer housed in decoupled module with EM absorbent lining.

Fanless cooling and microphony reduction using heatpipes connected to bespoke low-resonance heatsinks.

Extensive shielding of internal systems using EM absorbent barriers.

Critical power supply lines, data feeds and analogue outputs acoustically and noise decoupled with inline absorption modules.

user experience

Open architecture freedom

The T-Series Streamer will operate using any open source system. You can choose your platform such as JRiver, Plex, Kodi, or our *preferred system*, Roon.

Once it's all setup, the user experience is a dream. Simply start the streamer and select the operating app on your tablet or smart phone. The app then finds the streamer and shows your complete music world.

Sit back and play music from the internal storage or any external drive, or jump straight to TIDAL to build an extended library of endless new discoveries.

roon



Roon transforms the experience of browsing music. Artist photos, credits, bios, reviews, lyrics, tour dates, and composers are located automatically, then interconnected by links to build a surfable, searchable digital magazine about your music collection.

And Roon finds all the same links between your personal files and the millions of tracks available on TIDAL, so you can start with the music you know, then explore and discover new music from the world beyond your collection.