LUMÌÍN

X1

KEYNOTE

LUMIN X1

STREAMING'S
NEW CUTTING EDGE

LUMĬN X1

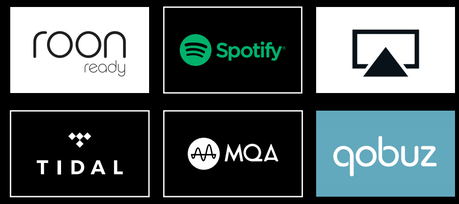
RE-ENGINEERED
FROM THE GROUND UP

COMPLETELY NEW APPROACH
DELIVERS A NEW STANDARD

LUMIN X1

HIGHLIGHTS

- Dual-core processor delivers native DSD512 & PCM768 playback
- Dual ES9038Pro SABRE DACs
- Femto Clock System with precision FPGA distribution
- Dual Mono Dual Stage Power Supply for analogue circuitry
- Dual Network with Optical Network support
- Entirely new external Power Supply
- USB Digital Audio Output supports Native DSD512
- New Output Buffer design
- PCM & DSD Upsampling
- Roon Ready, Spotify Connect
- TIDAL, MQA, Qobuz and TuneIn



LUMĬN X1

EXTERNAL POWER SUPPLY

LUMÌN X1

PSU HIGHLIGHTS

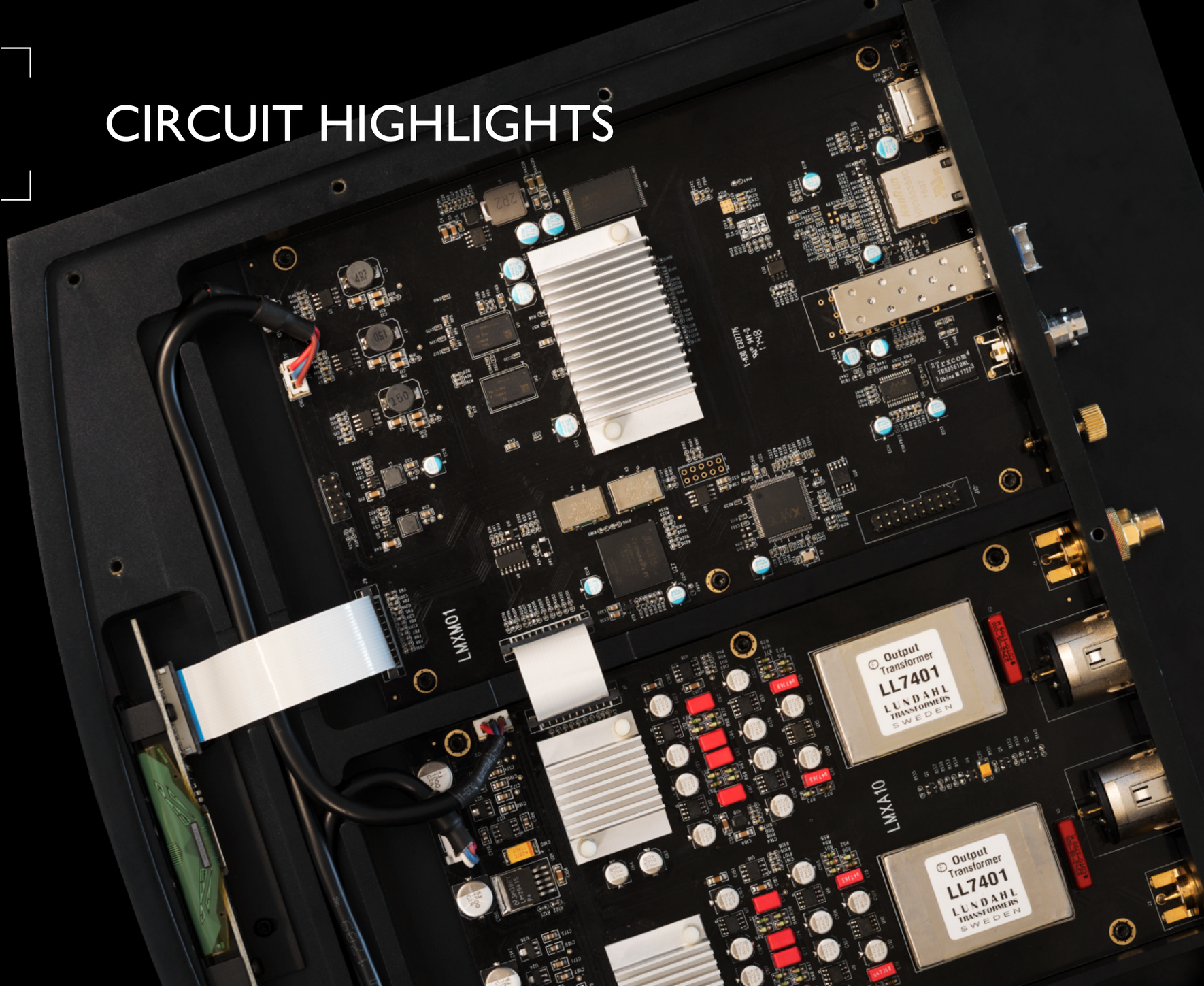
- New solid billet CNC casing design
- Dual-toroidal Transformer design
- Separate digital & analogue circuitry
- Low-noise Linear Regulator
- New 9-pin Output Connector
- Available as an upgrade for existing S1 / A1 / T1 customers

LUMĬN X1

MAIN UNIT

LUMIN X1

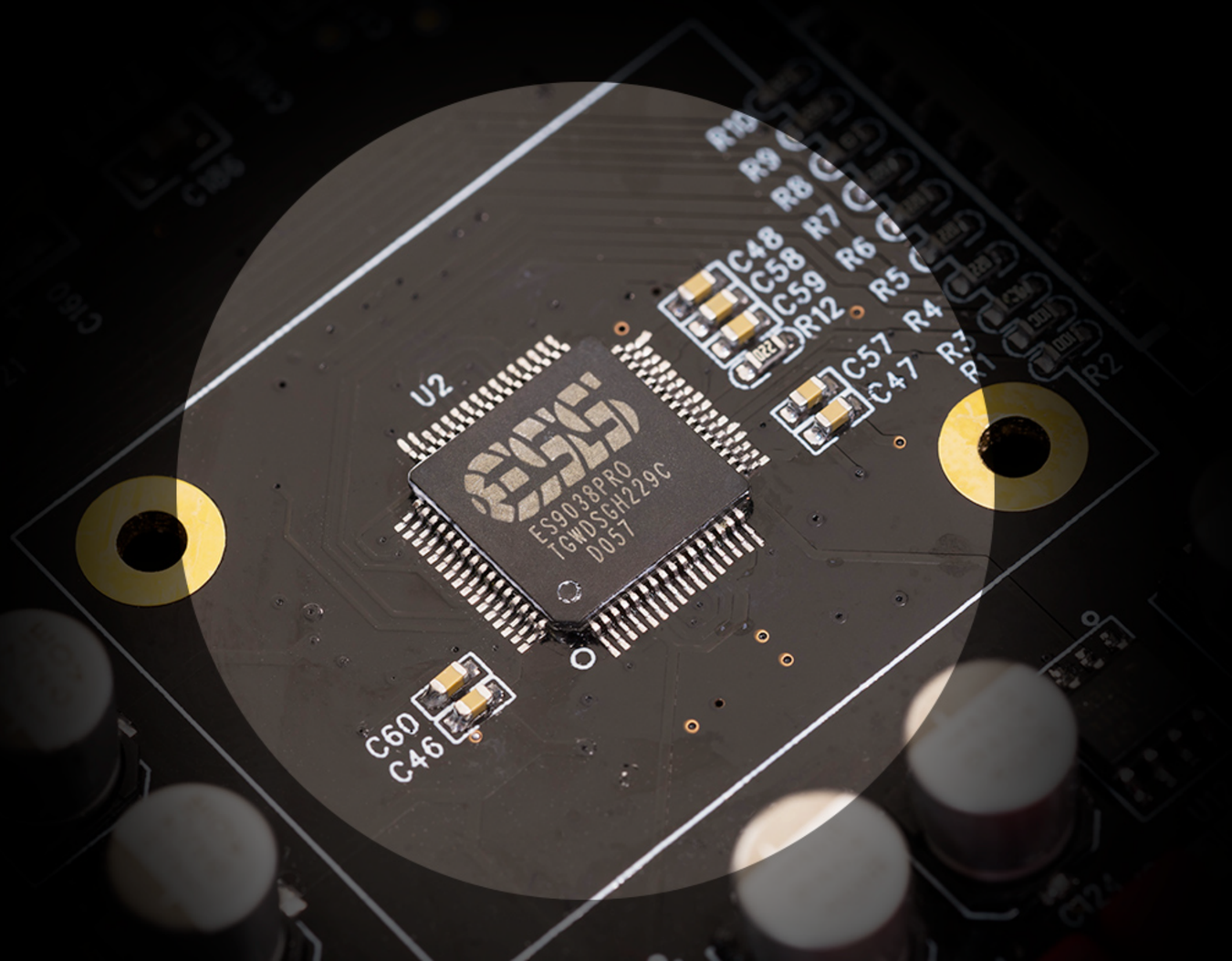
CIRCUIT HIGHLIGHTS



LUMIN X1

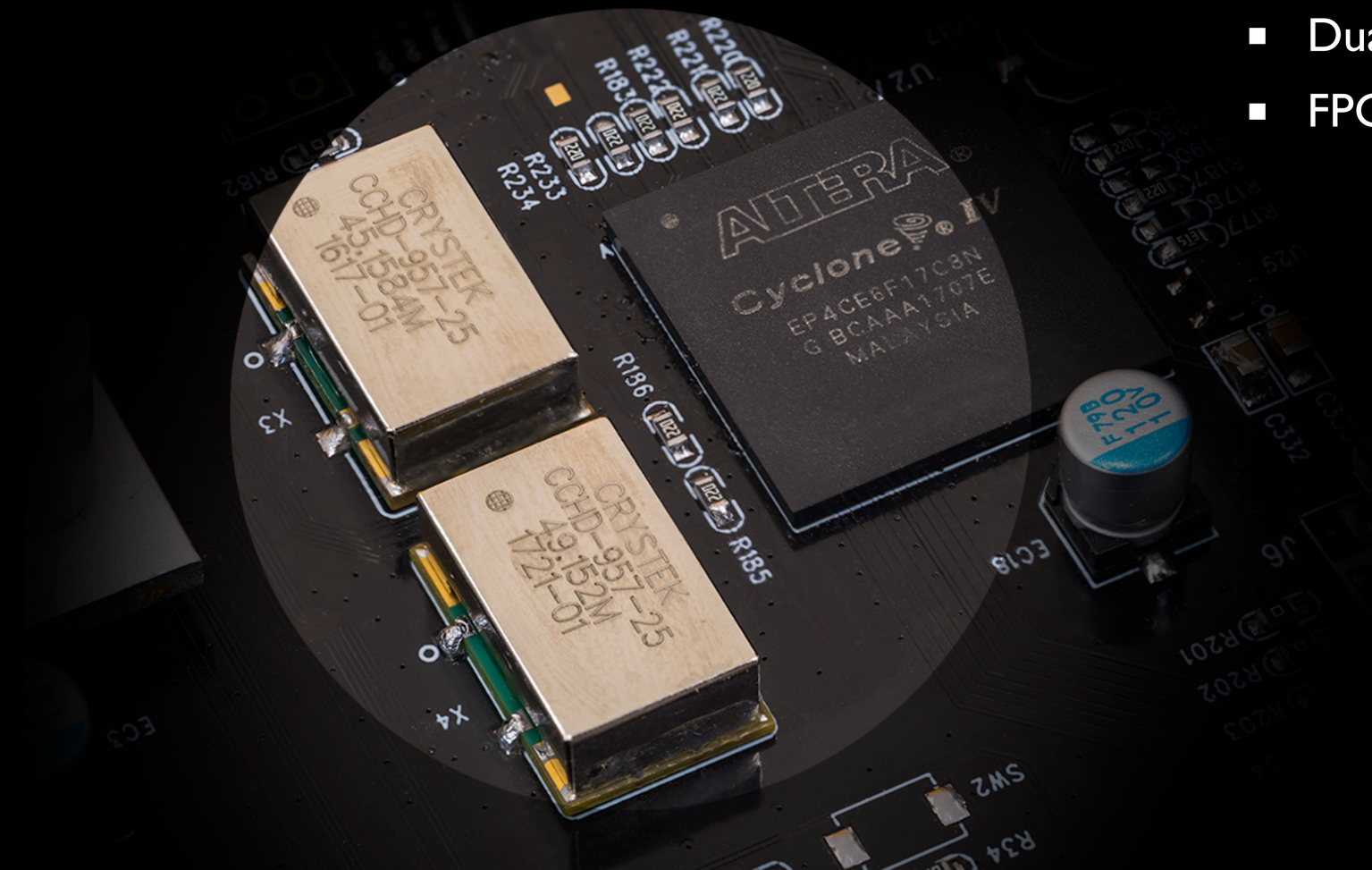
DUAL ES9038PRO CONVERTER

- Dual Mono Operation
- 32-bit precision volume control
- DSD512 22.6MHz
- PCM 768kHz



LUMIN X1

FEMTO CLOCK SYSTEM

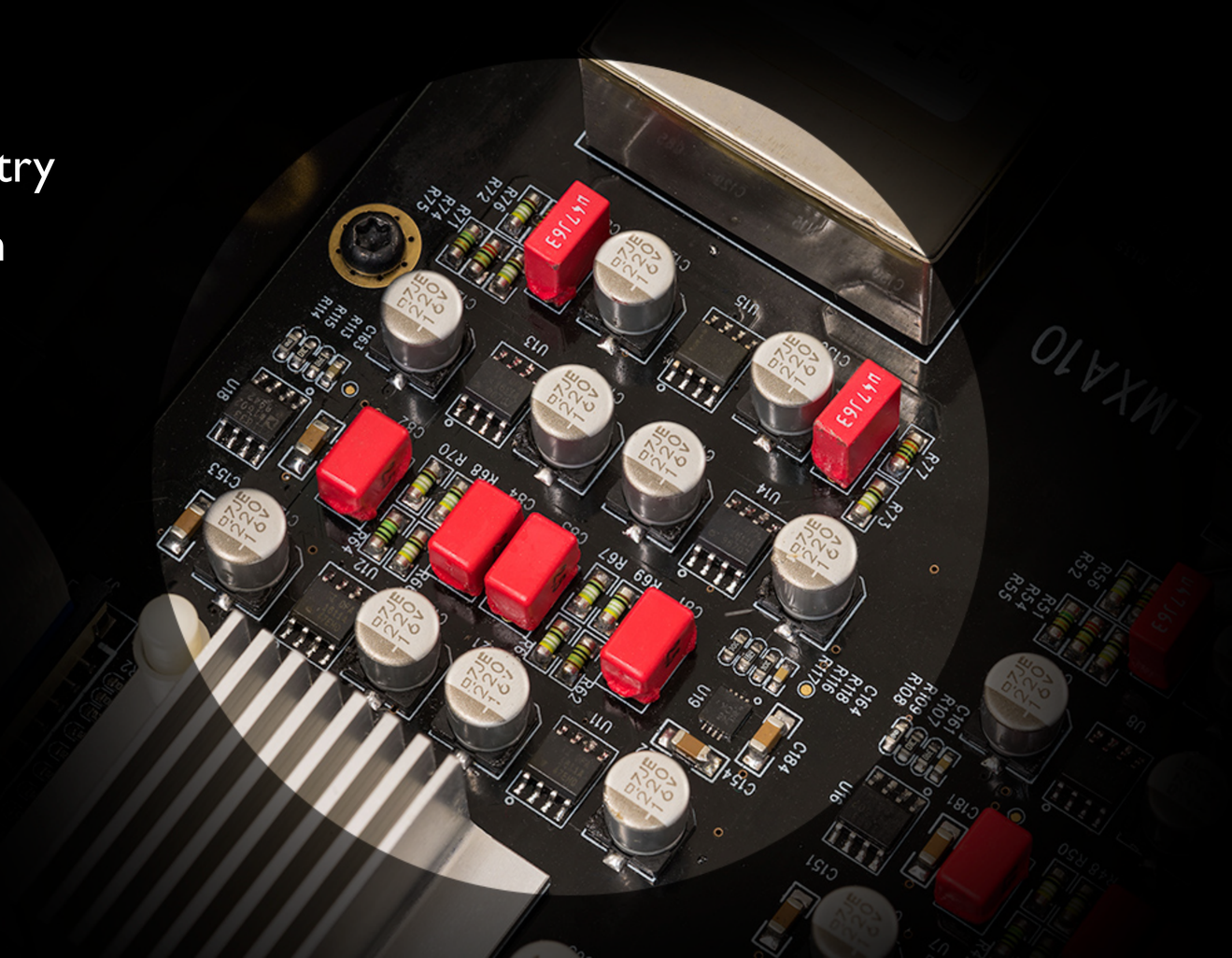


- Dual Femto Crystal Oscillators
- FPGA for precision clock distribution

LUMIN X1

NEW OUTPUT BUFFER DESIGN

- Fully balanced analogue output module
- Output transformer compensation circuitry
- Improved clarity, detail, poise and warmth



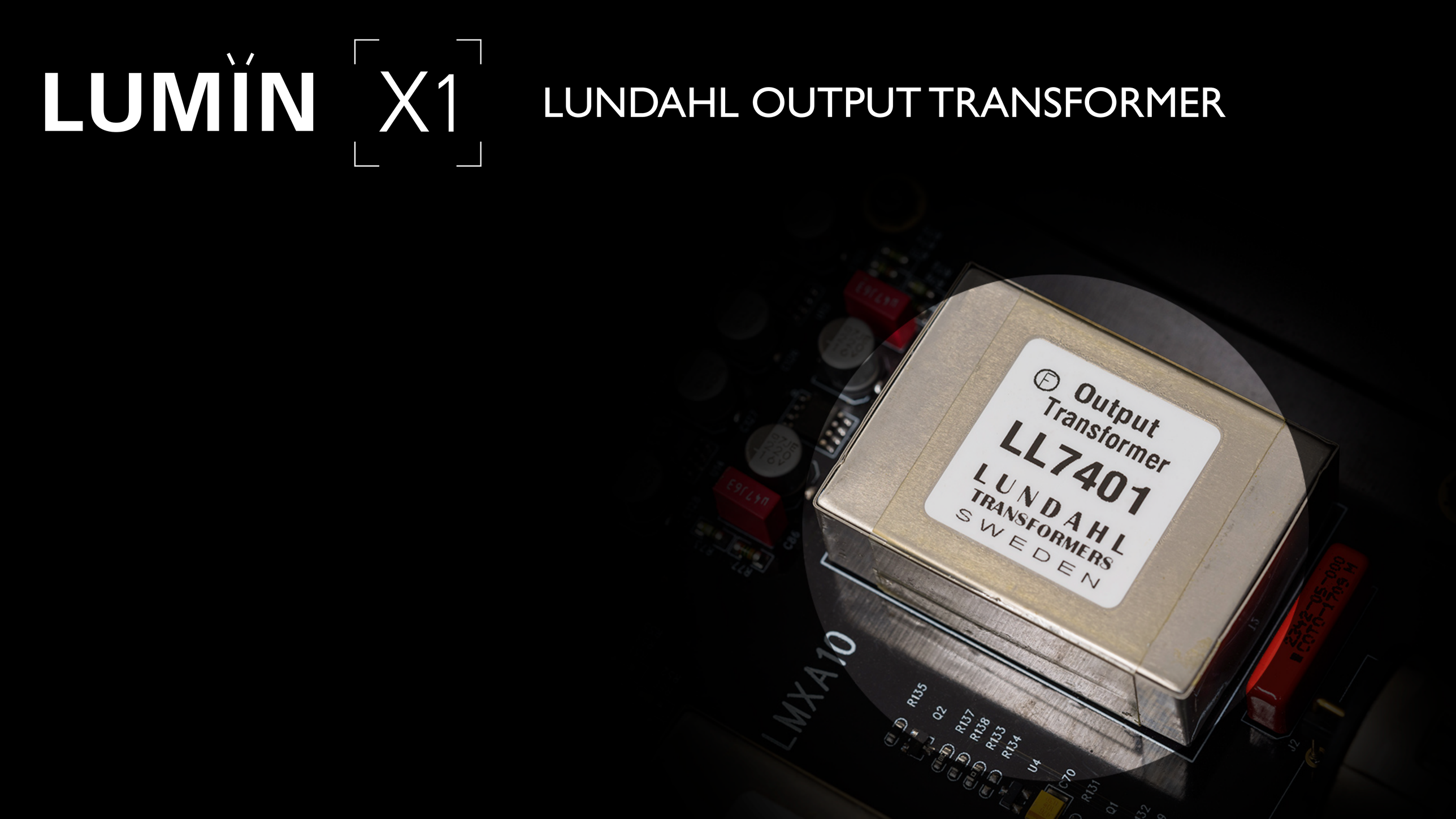
LUMIN X1

DUAL MONO DUAL STAGE LINEAR REGULATOR

- Dual Stage low-noise power regulator for analogue converters
- Dual Mono design for maximum channel separation

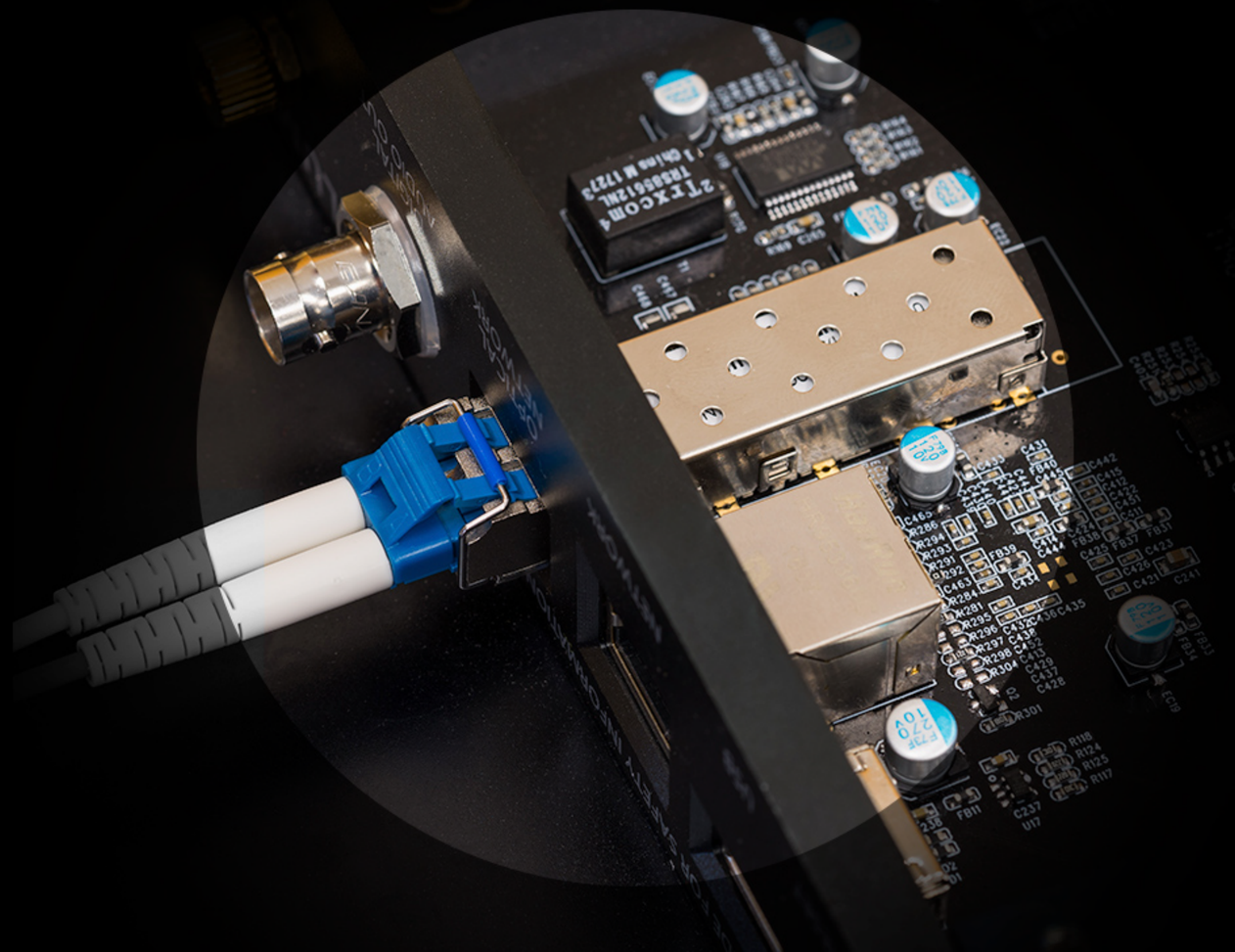
LUMIN X1

LUNDAHL OUTPUT TRANSFORMER



LUMIN X1

BUILT-IN OPTICAL NETWORK



- Industry-first audiophile network streamer with built-in Optical Network capability
- Provides complete isolation from network digital noise
- Industry-standard SFP for maximum compatibility
- Ultra-low latency network performance

LUMIN X1 SPECIFICATION

STREAMING PROTOCOL:

UPnP AV (OpenHome) protocol with audio streaming extension. Gapless Playback. On-device Playlist. Roon Ready

SUPPORTED AUDIO FILE FORMATS:

DSD :

DSF (DSD), DFF (DSD), DoP (DSD)

PCM:

FLAC, Apple Lossless (ALAC), WAV, AIFF

OTHER:

MQA, MP3, AAC (in M4A container)

SUPPORTED SAMPLE RATES & BIT DEPTHS:

PCM, 44.1khz–768kHz, 16–32-bit, Stereo

DSD512, 22.6MHz, 1-bit, Stereo

UPSAMPLING RATES & BIT DEPTHS:

PCM 384kHz and DSD128 upsampling option for all files up to 192kHz

SUPPORTED CONTROL DEVICES:

Apple iOS devices. iOS 5.0 or later required

Android devices. Android 4.0 (Ice Cream Sandwich) or later required

APP FEATURES:

Volume control. High-resolution artwork. Artwork caching. Multiple-tag handling. ‘Composer’ tag support. Find. Automatic internet links to artists/album/songs. Saving and restoring of playlists.

INPUT:

RJ45 Gigabit Ethernet Network (1000BASE-T)

SFP Gigabit Optical Ethernet Network (1000BASE-T)

USB storage, flash drive, USB hard disk (Single-partition FAT32, NTFS and EXT2/3 only)

DIGITAL AUDIO OUTPUT:

USB:

DSD64/128/256/512 2.8-22.6MHz, 1-bit Stereo

PCM 44.1–768kHz, 16-32-bit Stereo

COAXIAL BNC:

PCM 44.1khz–192kHz, 16–24-bit

DSD (DoP, DSD over PCM) 2.8MHz, 1-bit

POWER SUPPLY:

External dual-toroidal PSU. CNC construction with finish matched to main unit

Available in 220–240V AC and 110–120V AC versions ~ 50/60Hz

OTHER:

Firmware Upgradable for further features and enhancements

PHYSICAL:

LUMIN: 350mm (W), 345mm (D), 60mm (H), 8kg

PSU: 106mm (W), 334mm (D), 60mm (H), 4kg