



EON ART

SIMPLE QUARK SE

STEREOPHONIC INTEGRATED AMPLIFIER



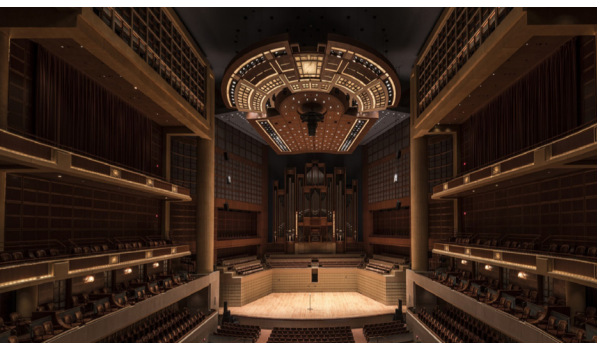
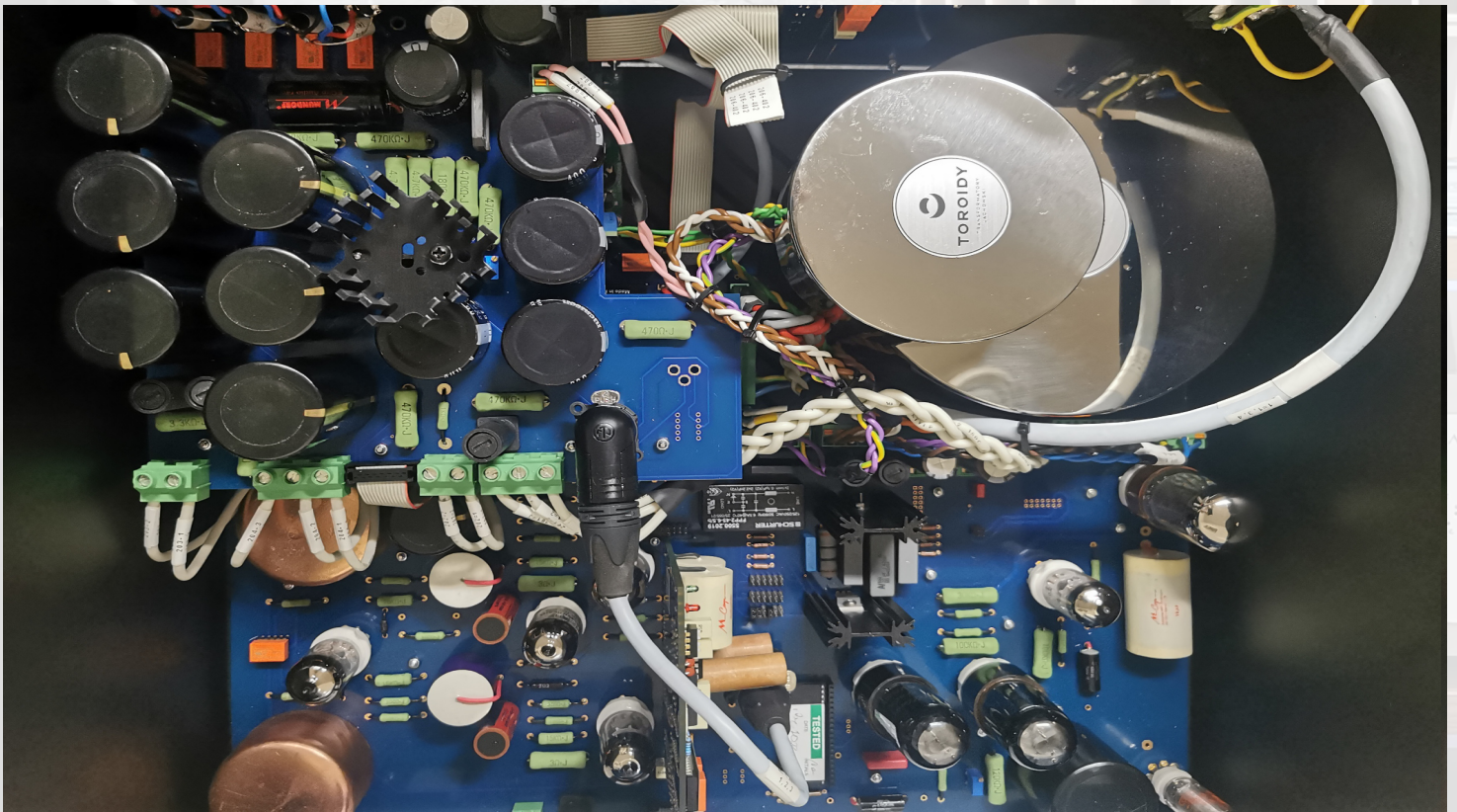
208 Wrms (8 Ω), 333 Wrms (4 Ω), type A+D

The Simple Quark Integrated hybrid amplifier

Our solution is unique. First, it offers what transistors and lamps can bring to each other; which translates into heat, neutrality and power. Second, the Simple Quark integrated stereo has a modular board for easy replacement of all its depreciable components.

This system is bringing the first eco-friendly stereo amplifiers in the world. Finally, Eon Art offers the best warranty in the industry.

The Simple Quark can be integrated into most existing systems. Control of the amplifier can be done with the front buttons or by remote control.





About EON ART

Eon Art amplifiers use only proven and tested technologies. Some of which originate in the medical, fighter aircraft and marine electronics worlds.

The name Simple Quark refers both to his big brother the Quark, and to the physics where the Squark is the hypothetical supersymmetric particle, superpartner of the quark. The squark has a spin of 0, while the quark has a spin of $1/2$. This SE version of the amplifier offers even more of the advantages and technologies of the Quark at nearly a third of it's cost. All the same capacitors and resistors of the signal path of the Quark are use to further reduce the gap.



Eon Art and the Quark are the creation and the implementation of Mr. Stéphane Hautcoeur. Research and development began in France in 2008 and continued in Canada until now. These 16 years offered us among other things this hybrid integrated stereo amplifier that implements two amplification channels, including their preamp stage. You connect your sources directly to Simple Quark SE and shorten the signal path.

Eon Art Canada Inc. is the result of the modification of the structure in 2017 of Eon Art Haute Fidélité, founded in 2012 in Canada, after its move from France.



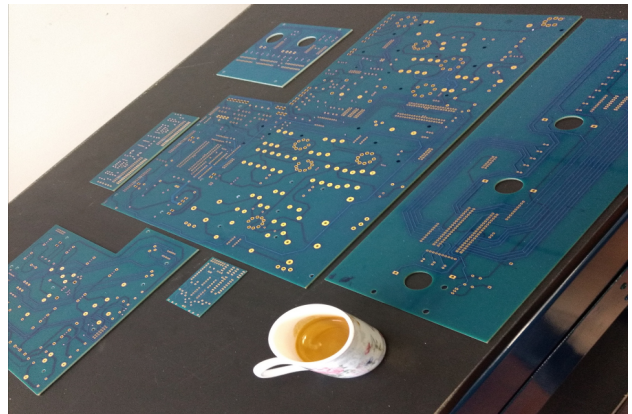
The company is based in Chandler, Quebec, Canada and is in partnership with Art Logik, an electronics and computer science company.

Music can be defined as the immediate and pure transmission of emotions through sound. The recognition of the smallest details must be done in a natural way and Eon Art's Simple Quark SE makes this neutrality possible.





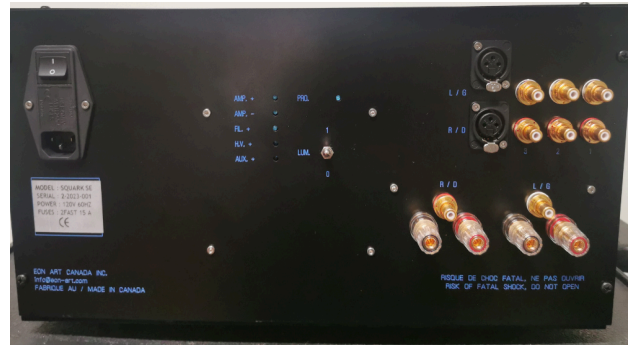
Front view: Simple and flexible design inspired by the yacht Lady M. Available with black or silver buttons.



Circuit View: A set of 8 double-thickness (70uM) copper circuit boards. With components on both sides.



Packaging view: Delivered in a sturdy reusable wooden crate.



Back view: High quality Neutrik and Supra connectors.



The worthy descendant of the Quark, the world's first high-end integrated A+D stereo amplifier.

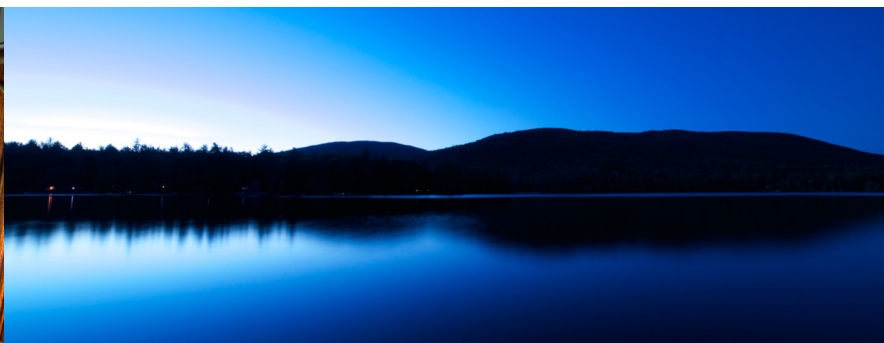
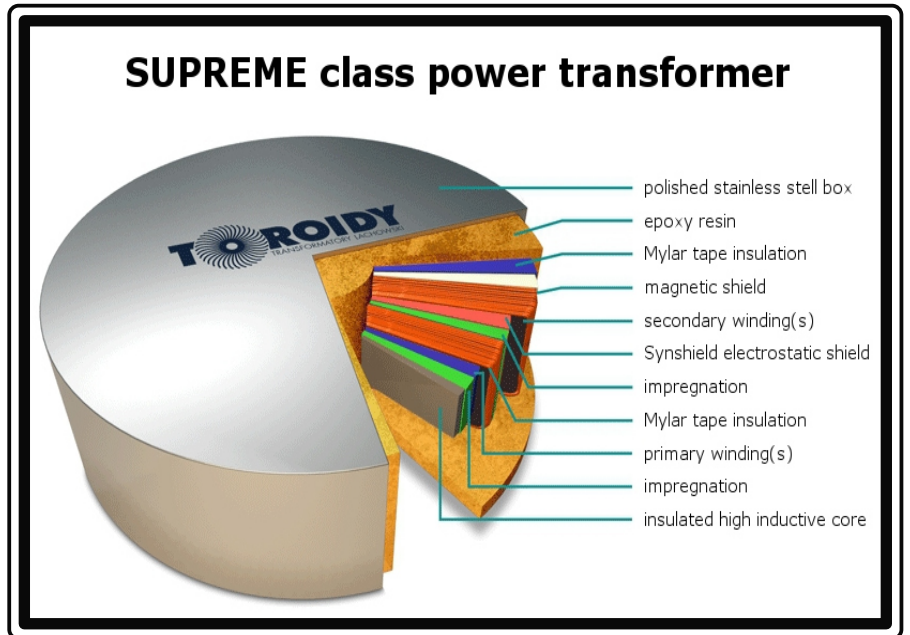
Experience unique musical emotions with this masterpiece of computer science. With a generous power at all volume levels that retains a warm, soft and transparent sound. A revolutionary amplifier for its durability and environmental aspects. It gives you more affordable access to the latest technologies for Quark and Boson amplifiers.



First class design

Made with expertise it is intended to make music; not only to make sounds.

The components are carefully selected and tested to recreate an experience identical to the hearing as you would have experienced during recording.



Neutrality



The capacitors used on the audio signal path are all audiophile quality and bear the marks of renowned suppliers such as Amtrans, Clarity, Duelund, Mundorf and Solen. We made sure that their quantity was adjusted to provide no phase rotation as well as to use multiple complementary models with a different sound signature so as not to exacerbate it. We avoid the usual problems related to the use of capacitors and guarantee the greatest neutrality of their action on the music. It also offers a large power reserve of 194000 μF which gives it deep and controlled bass.

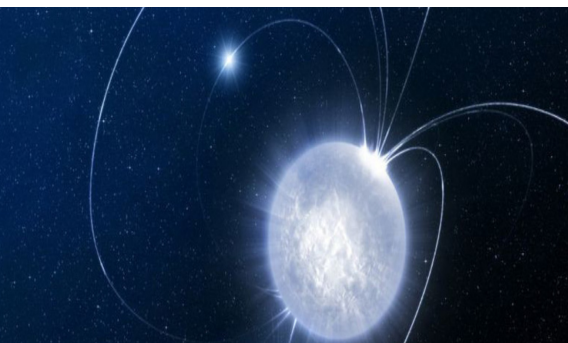
Exclusivity



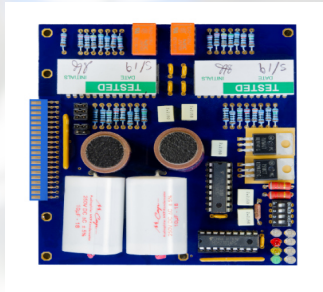
Since 2018, Eon Art Canada is the only amplifier manufacturer that has successfully produced an architecture that optimizes the selection of its components and the engineering of its circuits through a simulation-assisted design process on a super-computer that optimizes the value and choice of components. This raw force calculation process can only be done by super-computer such as the 800 cores machine we have. This unique technology ensures that any improvements that can be made to a circuit are made.

The result is a tube-type sound, with details, images and emotions but not limited to high-efficiency loudspeakers that would otherwise be required. It is common to admit that the great strength exclusive to Simple Quark is also being able to drive loudspeakers with difficult behavior without the traditional compromises.

Eon Art also owns, with hundreds of instruments, Canada's largest audio electronics laboratory and one of the largest in North America.

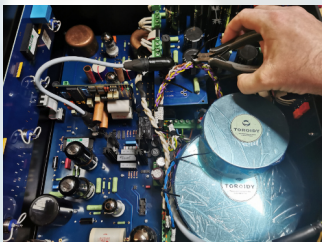


Ultra-low distortion volume control



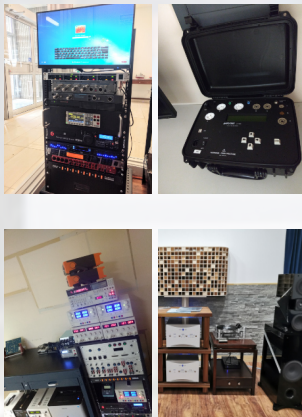
The volume level at 15 positions and two curves of the amplifier is controlled by a set of resistors of high stability, very high precision and medical quality, which are selected by transistors. The complete absence of relays and mechanical potentiometers, as well as the circuit topology guarantees a distortion rate lower than that offered by the volume controllers of the competitors, without further impact on the source seen by the amplifier stage, or mechanical wear.

Construction

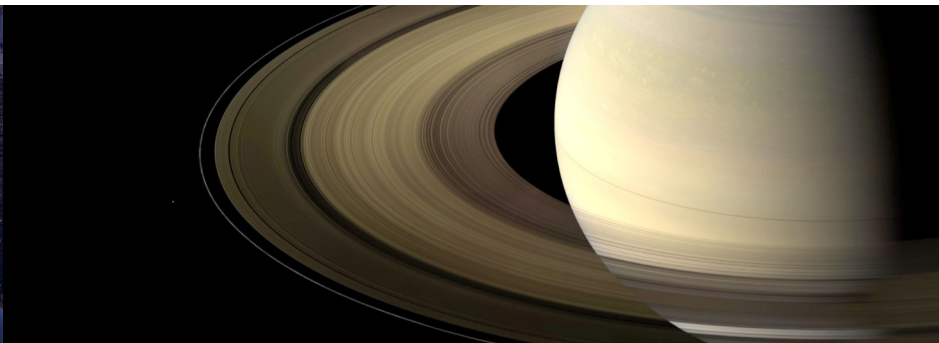
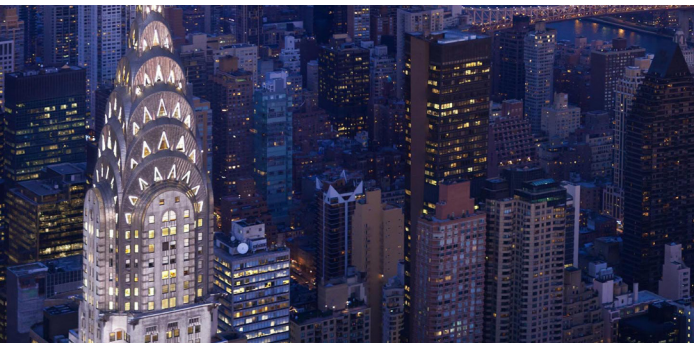


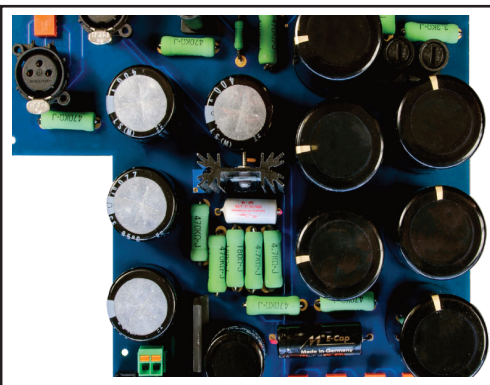
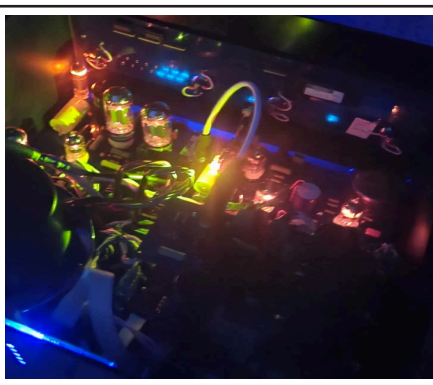
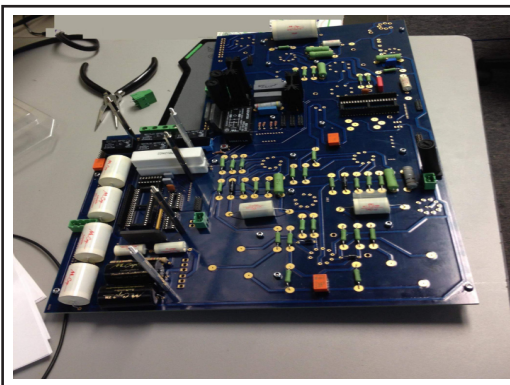
The construction of the amplifier cabinet is made of rigid steel with a black or white 4mm aluminum front panel. The buttons can be black or silver depending on your choice. Particular attention is paid to the quality of the cables, OFC and OCC copper audiophile quality, as well as their braiding.

Quality control



Each circuit board is subjected to rigorous automated post-weld testing through the use of specific computerized analyzers. The equipment is then tested for endurance and stability for 24 hours at full power under the eye of a 64 channel M300 acquisition center. An Audio Precision analyzer is used to prove that each amplifier reproduces complex music signals to the highest and highest standards in the industry. Of course, we also listen to every Single Quark SE in a reference system. Each step of the assembly and qualitative process is documented and signed by the stakeholders in a certificate to the owner located in the user manual.





SQUARK 208W STEREOPHONIC INTEGRATED AMPLIFIER

Brand	Eon Art	Operating mode	Integrated amplifier
Model	Simple Quark	Environmental responsibility	All-component replacement modules and 5 years calendar with de use of a circuit board holding the wearable components
Type	Stereo integrated amplifier	Repair index	8/10 -Specialist required
Class	A+D	Life cycle	50 years when recommended schedule is adhered to.
Buffer stage	Audiophiles discrete AOP	Warranty	Full product 10 years
Gain	40.117 dB	Wearables components board	5 YEAR's Recommended schedule provided
Rated power (1kHz,120VAC)	4Ω 333 Wrms, 8Ω 208 Wrms	Inputs	3x RCA stereo, 1x XLR stereo.
S/N ratio reference to rated output	91.153 dB	Outputs	Four (4) Supra loudspeaker posts
Frequency response 20 Hz -20 kHz	0,853 dB	Low light mode	One (1) stereo RCA pre out Always ON / 10 sec-delay
THD +N @250 W RMS	0.3498%	Qty of printed circuit boards	Eight (8x)
Input sensitivity	1 Vrms	Board thickness	2,5 mm (Twice the industry standard)
Preamp input impedance	41 kΩ	Qty of layers	Four (4x) to eight (8x)
Amp output impedance	11m Ωf <1kHz, 35m Ωf <20kHz	Board colour	Reflective blue
Damping factor (8Ω)	>720	Thickness	70 micron copper for each layer
Amplifier current limit	20 A per canal	Auxiliary supply filter	Medical grade, CEI 60601-1
Efficiency (amp only)	92%	Microprocessors	Two (2), 1x control, 1x sound parameters
Efficiency (amp + preamp)	90.33%	Internal network	I2C 100 kbit/s
Volume controller	Analogical transistor switching ultra-low distortion medial Thin Film resistors network. Independant circuit available in two versions: Low output on the first 10 positions Medium output on the first 10 positions	Shielding	Antistatic windings and electromagnetic shielding on the principal and auxilliary transformers
Distortion, volume controller, min. level	0.37%	Signal capacitors	Amtrans, Audyn, Duelund, Mundorf, Solen
Distortion, volume controller, max. level	0.052%	Amplifier capacitive reserve	Mainly Mundorf >194,293µF
Pre-amp tubes (3x)	Recommended E88CC JJTESLA (6922 / 6H23N-EB)	Internal cabling	Tin plated OFC Supra Ply and Eff. High Voltage and temperature silicon insulated tin plated OFC, Supra Lorad 3 x 1.5 mm tin plated OFC
Power supply tubes (5x)	Recommended JJTESLA 1x 5AR4 / GZ34,1x 12AX7, 2x 6V6G, 1x 0B2	Audio connectors	Supra, Neutrik heat resistant XLR
Softstart & pre-heat	5 minutes minimum / 24 hours optimum	Casing	Steel casing with brushed aluminum 4mm white or black frontpanel, 4 mm solid aluminum top and bottom. Soundcare feet
Remote turn-on & control	Infrared	Buttons	Your choice of silver or black buttons
Cooling	Natural convection		
Protection mechanisms			
Thermal excess	Built-in automatic shutoff		
Over current from internal source	Built-in automatic shutoff		
Over voltage from internal source	Built-in automatic shutoff		
Fuses	(10) 2 main, 8 internals, with quartz		
Autodiagnostic	DEL, microprocessors		
Alimentations	Total of 13		
Alimentation DC	Total of 10		
Alimentation AC des filaments	3		
Transformateurs	Toroidy SUPREME 15 secondary windings in 2 transformers for a total of 840 VA in two steel internal casings		
Maximum power consumption	840 W		
Inrush power consumption	2.23 A / 274 W		
Softstart	Yes		
Idle power consumption	2.46 W		
Supply voltage and frequency	Factory set: Ameriques, Europe, autres		
Entrée secteur CA	IEC with a (2) meters Supra Lorad		
Poid (par unité)	76.2 lbs / 34.47 kg		
Dimensions (L x H x P)	456 mm x 406 mm x 228 mm		
		Assembly	Handmade in Canada by Eon Art
		Packaging	Wooden box, 673 x 673 x 641mm
		Quality control	Five-level procedure
		Certification	Audio Precision and Rigol analysers
		Musical quality	Listening session for each products
		Documentation	Documented and signd by the various stakeholders in a certificate to the owner in a user manuel.
		Availability	120 units per year, numbered edition



EONART

Stéphane Hautcoeur
President, EON Art Canada Inc.
Founder, CTO
www.eon-art.com
info@eon-art.com

EON Art Canada Inc. All rights reserved 2023-2024
Specifications may change without notice.

Eon Art Canada Inc.
273 Boul. Pabos
Chandler, QC
G0C 2H0, Canada