

EON ART

# TACHYON

DIGITAL TO ANALOG CONVERTER (DAC)



T A C H Y O N



## TACHYON - DIGITAL TO ANALOG CONVERTER (DAC)

Brand	Eon Art	Environmental responsibility	All-component replacement modules and 5 year calendar with the use of a circuit board holding the wearable components.
Name	Tachyon	Repair Index	8/10 - Specialist required
Type	Converter (DAC)	Life Cycle	50 years when Recommended schedule is adhered to.
Output stage	Audiophile capacitors and discrete components with adjustable gain.	Component warranty	10 YEARS - Full product
Digital inputs	1x S/PDIF BNC, 1x S/PDIF RCA, 1x USB, 1x AES/EBU, 1x ETH, 1x BLUETOOTH	Wearable components	Recommended schedule provided
Analog inputs	1x RCA, 1x XLR	Low light mode	Always ON / 10 sec-delay
Optional module	Headphones amplifier, RCA or XLR additional analog input, RCA or XLR additional analog output	Modularity	Set of (7-8) independant printed circuits: 3 for the converters and the numeric inputs stage 1 for depreciable components 1 location for optional circuits 2 front and back plates 1 motherboard
Ethernet	AES67 and Ravenna supported by a Merging Technologies digital input circuit with a gigabit connector.	Number of printed circuit boards	Minimum Seven (7x) (8 with optional board)
Outputs	1x RCA, 1x XLR	Board thickness	2.5 mm (twice the industry standard)
conversion circuit	2 Wolfson WM8741	Qty of layers	From two (2x) to eight (8x) layers upon the circuit
Format	16-24 bits, 32-192 kHz, DSD	Board colour	Reflective blue
Volume controller	Analogical symmetrical transistors switching ultra-low distortion Thin Film resistors network	Thickness of copper track	70 micron copper for each layer
Distortion, volume controller, min. level	0.37%	Shielding	Faraday cage in sensible zone and antistatic windings on transformers
Distortion, volume controller, max. level	0.052%	Signal capacitors	Amtrans, Clarity, Duelund, Solen
S/N Ratio	___ (to be confirmed)	Power supplies capacitors	Mundorf / 125 Deg, Nichicon / 105 Deg
Frequency response 20 Hz - 20 kHz	___ (to be confirmed)	Processors	Internal network of 4 Pic, 1 Xmos, 2 Arm and 1 Fpga
Soft start & Pre-heat	5 min. minimum / 30 min. optimum	Internal cabling	Tin plated OFC Supra Eff, Silicon insulated tin plated OFC, Supra Lorad 3 x 1.5 mm tin plated OFC
Remote turn on & control	Bluetooth, WiFi via EonArt API, IOS and Android, Linux, Windows.	Audio Connectors	Supra, Neutrik
Cooling	Natural convection, case temperature of 35 celcius at 23 celcius ambient	Casing	Brushed aluminium - 7 mm alloy chassis with quick access rail system; Faraday-cage effect, 19 mm solid front panel
Protection mechanisms		Access Security	Front access drawer-motion access Rear lock with key
Thermal Excess	Built-in automatic shutoff	Base	7 mm Brushed aluminium alloy on 20 mm Labradorite semiprecious stone; Soundcare feet. Microphonic vibration neutralizer
Over current from internal source	Built-in automatic shutoff	Assembly	Handmade in Canada by Eon Art
Over voltage from internal source	Built-in automatic shutoff	Casing assembly	Handmade finish and assembly by Oracle Audio Technologies
Fuses	(16) 2 main, 14 internals	Quality control	Five-level procedure
Selfdiagnosis	Bluetooth, LED's, microprocessors	Product certification	Audio Precision and Rigol analyser
Power supplies	Total of 15	Musical quality	Listening session for each product
Analog section power supplies	8 discrete components Kelvin type regulators.	Availability	50 x units per year, numbered edition
Digital section power supplies	7	Packaging	Pelican Protector 0370, 673 x 673 x 641 mm
Power supplies filters	3 upon the IEC-60601-1 norm		
Capacitive reserve	1/2 Farad (> 575,754 µF) of filtering		
Transformers	14 secondary windings in three independent units for a total of 201.5 VA		
Maximum power consumption	___ (to be confirmed)		
Inrush power consumption	___ (to be confirmed)		
Softstart	yes		
Idle power consumption	___ (to be confirmed)		
Operation mode	Direct output / Output with volume controller.		
Supply voltage factory set	Ameriques, Europe, others		
AC mains input	IEC with a Supra cable		
Weight (per unit)	83.2 lbs / 37.74 kg (to be confirmed)		
Dimensions (W x H x D)	438 mm x 435 mm x 305 mm		

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