

# ATOHM<sup>®</sup>

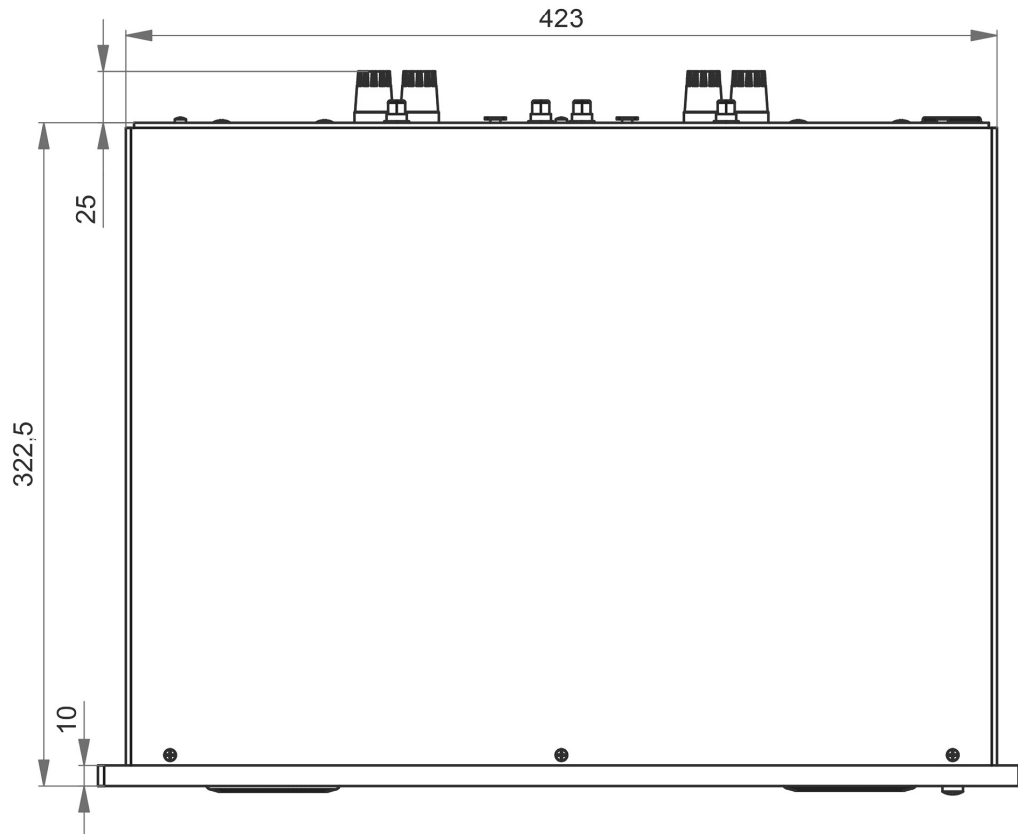
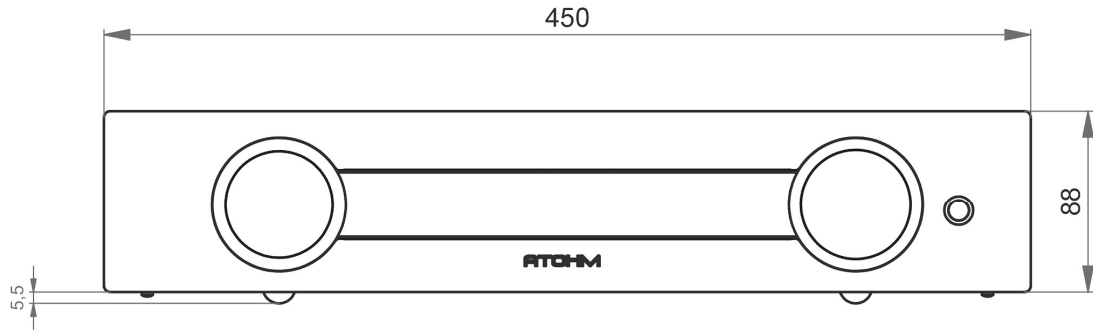
# RS 700 « GT EDITION » V1



## TECHNICAL SPECIFICATIONS

DSP controlled power amplifier with 4 working modes	1 general mode for use with all kinds of speakers 3 specific modes for use with ATOHM GT SERIES speakers only
Nominal Power / 4 ohms (2 channels in operation) in general mode.	2*700 Wrms
Nominal Power / 8 ohms (2 channels in operation) in general mode.	2*350 Wrms
Nominal Power in GT1-GT2 & GT3 mode	GT1 ----- 2*220 Wrms GT2 ----- 2*280 Wrms GT3- ----- 2*700Wrms
Nominal impedance	4-16 Ohms
Minimal impedance on real impedance curve	3 Ohms
Maximal peak current (Protection stage threshold )	2*30A
Frequency response	2Hz - 45 kHz ( -3db)
Phase rotation	2 ° @ 30 KHz
THD+N distortions at nominal power	Less than 0.06%
Damping factor ( 1 KHz / 4 ohms)	Sup. à 1000
AD/DA « PREMIUM » (AKM) conversion	2 inputs / 4 differential outputs - 32 bits
Intelligency	32 bits -295MHz Sigma DSP
Sampling frequency	96 kHz - 24 bits audio resolution
Latency (including all processing)	7.5ms
SNR	110 dB
Diaphony (1 kHz @ nominal power)	<-95 dB
Maximal input level ( RCA - XLR )	+22 dBu ( XLR input on audio differential buffer INA type )
XLR outputs maximum level	+16 dBu (5Vrms-diff.) max / U-GUARD
XLR and RCA input impedance	XLR : 18kOhms/2 (com) - 36 kOhms (diff) RCA ; 21kOhms
XLR output impedance	480 Ohms /2 (com) - 960 Ohms (diff)
Maximal gain ( according internal setting 0 or +15dB)	29.8dB or 44.8 dB
Saturation and clipping limiter ( all mode )	U-GUARD™ exclusive processing
Active bass driver(s) excursion control (GT1-GT2 or GT3 mode only)	X-GUARD™ exclusive processing
Bass response optimizer ( GT1 -GT2 ou GT3 mode only )	X-TEND™ exclusive processing
High pass filtering on speakers power output with adjustable subwoofer output level (all mode)	Switchable with frequency choices of 60-80 or 100 Hz and slopes choices of 12 or 24 dB/oct on speaker outputs Low-pass Bessel filtering at 350Hz/12dB with adjustable level on the two subwoofer outputs (XLR)
Specific digital link based on S/PDIF with ASRC (Not used in this « GT EDITION » version)	S/PDIF IN & OUT via 75 ohms RCA 96 KHz -24 Bits resolution
Indicators	2 blue Led : power on 2 red leds: U-GUARD™ and T-GUARD™ 2 green leds: X-GUARD (active excursion control)
Cooling (on separated power supply)	2 « low noise » fans -2500 RPM / Triggering from approximately continuous 2*40 watts W rms @22°C ambient temp
Using temperature range	5° - 40°C ( 46°C on request)
Short circuit protection	Yes
Amplifier thermal protection (T- GUARD™ processing) (+ protection analogique sur étages de puissance )	Yes - 18dB drop in level with automatic reset after 20 seconds
Speakers thermal protection (T- GUARD™ processing) (GT1-GT2 and GT3 mode only )	Yes - 18dB drop in level with automatic reset after 20 seconds
Trigger input voltage ( 3.5mm jack)	12V dc
Supply voltage	(auto) 100-240V / 50- 60Hz
Consumption	Power off with trigger control (standby) : 400mW Mute (speaker disable) : 18W At rest : 36W Maximum peak :2300W
Provided accessoires	High power main cord 3*1.5 <sup>2</sup> cuivre - 16 A L=1.5M
Dimensions ( L*H*P ) (H= 2U)	17.71 * 3.46 * 13.70 (inch) / 450 * 88 * 348 (mm)
Weight	19.2 Pounds / 8.7 Kg

PRODUCT DESIGN AND MADE IN FRANCE



*Our concern for performance is leading us to constantly improve our products. The present features are subject to modification without any notice.*

ATOHM<sup>®</sup> is a registered CE trademark

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