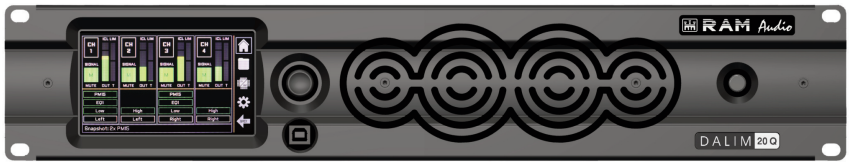
RAM Audio® DALIM Series

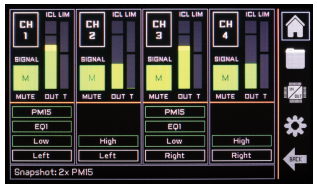


- Large IPS display, capacitive touch panel user interface
- 64 bit double-precision 96kHz DSP process
- Optional AES67 (ATMOS and RAVENNA compatible), Dante™ and AES3 Digital inputs
- Two ports Ethernet and USB port for DSP control
- High efficiency class D topology
- Universal power supply with PFC
- Up to 20000 W in 4 channels
- 8, 4 and 2 Ohm low impedance operation
- 100, 70, 50 and 35 V high impedance modes
- RAM Audio Power Control Management (PCM™)
- Optional GPIO module for 5Q and 10Q
- Neutrik® XLR and Speakon® connectors
- Up-side-down design to avoid fan dust accumulation
- Temperature controlled, front to back cooling
- Neutrik® PowerCon connector (32A for 14/20Q models)

DSP management: RAM OCS and amplifier display:

Two general working modes: User and Advanced (manufacturer)

- User functionalities:
  - Input Routing/Matrix (basic or advanced)
  - Input EQ section with 7 filters and 20 memories
  - Input EQ Mode section, predefined by the manufacturer
  - Speaker Preset selection predefined by the manufacturer
  - Snapshot library management (up to 20 snapshots)
  - Advanced Control Groups
- Advanced functionalities (manufacturer):
  - Input EQ Mode section creation (10 filters, 20 Modes)
  - Way routing section (Locked/Unlocked)
  - IIR EQ section: XOver, Gain, Delay, and 12 EQ filters
  - FIR EQ section: 22 linear phase XOver and EQ filters, 20 Phase filters or custom file up to 1000 taps
  - RMS and Peak Dynamic control
  - Snapshot library management up to 20 presets (Locked/Unlocked)
  - Speaker Preset library management (up to 100 presets)
  - 5 Security levels definition to limit final user functionality





OUTPUT POWER	DALIM-5Q	DALIM-10Q	DALIM-14Q	DALIM-20Q
2 ohms	4x 1250 W	4x 2500 W	4x 3500 W	4x 5000 W
4 ohms	4x 1250 W	4x 2500 W	4x 3500 W	4x 5000 W
8 ohms	4x 1250 W	4x 1250 W	4x 1800 W	4x 2500 W
Hi-Z 100V	4x 1250 W	4x 2500 W	4x 3500 W	4x 5000 W
	1x 2500 W	1x 2500 W	1x 4200 W	1x 5000 W
Hi-Z 70V	4x 1250 W	4x 2500 W	4x 2950 W	4x 3500 W
	1x 1800 W	1x 2500 W	1x 2950 W	1x 3500 W

DSP Specifications - RAM_OCS Control

Overall:
- High performance 96kHz/24 bits AD/DA converters
- 64 bit double-precision 96kHz DSP process
- 0.85 ms minimum process latency time
- Custom FIR process up to 1000 taps
- AES67, Dante and AES3 input versions

Input Section (x4):
- Gain, Mute and Phase inversion
- Delay: in In A: 333ms (114m), In B/C/D: 90ms (31m)
- Input EQ: 36 filters (Param., Shelving, LP, HP, BP, SB, AP)

Output Section (x4):
- Crossover Filters: FIR and IIR (up to 48dB/oct, Butterw./LR/Bessel)
- Output Delay: 0 to 31 meters (90ms) per channel
- Output IIR EQ: 12 filters per channel (Param., Shel, LP, HP, BP, SB, AP)
- Output FIR EQ: 22 filters per channel (Parametric, Shelving, LP, HP, BP, SB, AP), or Custom. Up to 1000 taps
- RMS and Peak limiter per channel

Communications:
- Two ports Ethernet switch for daisy chain connection
- USB 2.0 Type B port

Miscellaneous:
- 100 Manufacturer system preset memories library
- 20 User preset memories library
- 20 User snapshot memories library
- Manufacturer/User passwords
- User control groups for virtual Equalization, Gain and Delay
- Zones definition for library management and alerts information
- Smaart® analysis software integration

DALIM Technical Specifications

	DALIM-5Q	DALIM-10Q	DALIM-14Q	DALIM-20Q
Number of channels	4	4	4	4
Total output power	5000 W	10000 W	14000 W	20000 W
Output Power* (All ch driven/single ch)				
2 ohm	4x 1250 / 1x 1250 W	4x 2500 / 1x 2500 W	4x 3500 / 1x 3500 W	4x 5000 / 1x 5000 W
2.67 ohm	4x 1250 / 1x 1700 W	4x 2500 / 1x 3300 W	4x 3500 / 1x 4700 W	4x 5000 / 1x 6700 W
4 ohm	4x 1250 / 1x 2500 W	4x 2500 / 1x 2500 W	4x 3500 / 1x 3750 W	4x 5000 / 1x 6000 W
8 ohm	4x 1250 / 1x 1250 W	4x 1250 / 1x 1300 W	4x 1800 / 1x 1900 W	4x 2500 / 1x 3000 W
4 ohm Bridged	2x 2500 W	2x 5000 W	-	-
8 ohm Bridged	2x 2500 W	2x 5000 W	-	-
Hi-Z 100V	4x 1250 / 1x 2500 W	4x 2500 / 1x 2500 W	4x 3500 / 1x 4200 W	4x 5000 / 1x 5000 W
Hi-Z 70V	4x 1250 / 1x 1800 W	4x 2500 / 1x 2500 W	4x 2950 / 1x 2950 W	4x 3500 / 1x 3500 W
Max output voltage	150 V_{peak}	150 V_{peak}	189 V_{peak}	235 V_{peak}
Max output current	36 A_{peak}	50 A_{peak}	59 A_{peak}	71 A_{peak}
Total Harmonic Distortion	<0.05%			
Crosstalk (20Hz-1kHz), typical	>70dB			
Voltage Gain	26dB to 44dB			
SNR	111 dBA	111 dBA	113 dBA	115 dBA
Nominal Mains Voltage	100V-240V AC, 50Hz-60Hz (Operating: 90V-265V AC)			
Consumption				
230 V AC - 1/8 rated power (4 Ohm)	3.7 A / 817 W	7.3 A / 1634 W	10 A / 2288 W	14 A / 3268 W
120V AC - 1/8 rated power (4 Ohm)	7.2 A / 817 W	14 A / 1634 W	19.2 A / 2288 W	26.8 A / 3268 W
Idle	0.7 A / 85 W	0.7 A / 85 W	1 A / 112 W	1 A / 112 W
Thermal Dissipation (1/8 rated power 4ohm)	655 BTU/h	1310 BTU/h	1834 BTU/h	2620 BTU/h
Dimensions W x H x D	483x89x355 mm / 19x3.5x14 in			
Weight Net	7 kg / 15.4 lb	7 kg / 15.4 lb	9 kg / 19.8 lb	9 kg / 19.8 lb

Protections: Soft-start, Turn-on Turn-off transients, Muting at turn-on, Over-heating, DC, RF, Short-circuit, Open or mismatched loads, Overloaded power supply, ICL™, PCM™

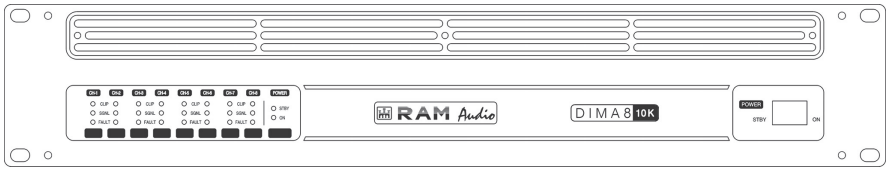
* IEC filtered pink noise signal (40Hz-5kHz, 12dB crest factor)

Dante AES67

RAM Audio®

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RAM Audio — DIMA Series



- High efficiency class D topology
- Universal power supply with PFC
- From 1250 W to 10000 W in 8, 4 and 2 channels
- 8, 4 and 2 Ohm low impedance operation
- 100 and 70 V high impedance modes
- RAM Audio Power Control Management (PCM™)
- Phoenix connectors for inputs and outputs
- Up-side-down design to avoid fan dust accumulation
- Temperature controlled, front to back cooling
- Gain configuration from 26 to 40 dB
- GPIO for third party interface. AES67 (ATMOS and RAVENNA compatible) and Dante options
- Subsonic filter
- Output level control in rear panel
- Output mode configuration for high or low impedance with power limitation

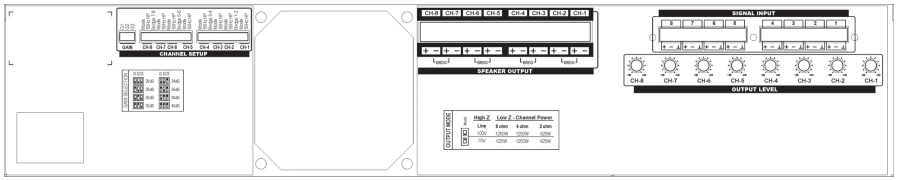
DIMA Series are 2, 4 and 8-channels mid/high power level amplifiers dedicated to the installation and cinema market where they can be connected loads in both, low and high impedance, through their input and output Phoenix connectors, having output level control potentiometers in the rear panel.

These amplifiers have many configuration possibilities such as bridge mode, subsonic filter and channel power limiter, among others, in order to satisfy the needs of any particular installation. These devices also can be equipped with a GPIO connection to interface with a third party control system. Optional DANTE/AES67 or native AES67 (ATMOS and RAVENNA compatible) can be installed in these amplifiers.

With all these configurations DIMA amplifiers can meet the power requirements of any installation where it is required from 300 W up to 2500 W per channel.

OUTPUT POWER TABLE

	DIMA2-1K3	DIMA2-2K5	DIMA4-2K5	DIMA4-5K	DIMA4-10K	DIMA8-2K5	DIMA8-5K	DIMA8-10K
4 Ohm	2x 625 W	2x 1250 W	4x 625 W	4x 1250 W	4x 2500 W	8x 315 W	8x 625 W	8x 1250 W
8 Ohm	2x 625 W	2x 1250 W	4x 625 W	4x 1250 W	4x 1250 W	8x 315 W	8x 625 W	8x 1250 W
Hi-Z 100V	2x 625 W	2x 1250 W	4x 625 W	4x 1250 W	4x 2500 W	8x 315 W	8x 625 W	8x 1250 W
Hi-Z 70V	2x 625 W	2x 1250 W	4x 625 W	4x 1250 W	4x 1750 W	8x 315 W	8x 625 W	8x 1250 W



Config parameters:

- Amp channel setup:
  - 50Hz HP: 50Hz subsonic filter
  - Output Mode: Hi impedance voltage selector. Low impedance power limitation
  - Bridge mode: Low impedance bridge mode. 200V/140V high impedance mode
  - Gain selection: change gain from 26dB to 40dB (2 dB steps)
- Signal setup:
  - Ouput Levels: hidden rear panel potentiometers to adjust output level
- GPIO interface:
  - GPI Power: turn on/off by sustained contact or sustained voltage
  - GPI Mute: mute/unmute completelly amplifier by contact or voltage
  - GPO Monitor: monitor each individual channel, with switching contacts for fault/OK status

DIMA Technical Specifications

	DIMA2-1K3	DIMA2-2K5	DIMA4-2K5	DIMA4-5K	DIMA4-10K	DIMA8-2K5	DIMA8-5K	DIMA8-10K
Number of channels	2 channels		4 channels			8 channels		
Total output power	1250	2500	2500	5000	10000	2500	5000	10000
Output Power/channel* All ch driven / Single ch [W]								
2 ohm	625 / 625	625 / 625	625 / 625	625 / 625	1250 / 1250	315 / 625	625 / 625	625 / 625
2.67 ohm	625 / 835	835 / 835	625 / 835	835 / 835	1650 / 1650	315 / 835	625 / 835	835 / 835
4 ohm	625 / 1250	1250 / 1250	625 / 1250	1250 / 1250	2500 / 2500	315 / 1250	625 / 1250	1250 / 1250
8 ohm	625 / 1250	1250 / 1250	625 / 1250	1250 / 1250	1250 / 1250	315 / 1250	625 / 1250	1250 / 1250
4 ohm Bridged	1250	1250	1250 / 1250	1250 / 1250	2500 / 2500	625 / 1250	1250 / 1250	1250 / 2500
8 ohm Bridged	1250	2500	1250 / 1250	2500 / 2500	5000 / 5000	625 / 2500	1250 / 2500	2500 / 2500
Hi-Z 100V	625 / 1250	1250 / 1770	625 / 1770	1250 / 1770	2500 / 2500	315 / 1770	625 / 1770	1250 / 1770
Hi-Z 70V	625 / 1250	1250 / 1250	625 / 1250	1250 / 1250	1750 / 1750	315 / 1250	625 / 1250	1250 / 1250
Max output voltage	150 V_{peak}							
Max output current	25 A_{peak}	25 A_{peak}	25 A_{peak}	25 A_{peak}	35 A_{peak}	25 A_{peak}	25 A_{peak}	25 A_{peak}
Tot. Harmonic Distortion	<0.05%							
Crosstalk (20Hz-1kHZ)	>70dB							
Voltage Gain	26dB to 44dB							
SNR	111 dBA							
Nominal Mains Voltage	100V-240V AC, 50Hz-60Hz (Operating: 90V-265V AC)							
Consumption								
230 V AC - 1/8 rated pwr (4Ω)	1.2 A / 285 W	2.1 A / 500 W	2.1 A / 500 W	3.7 A / 900 W	7.3 A / 1634 W	2.1 A / 500 W	3.7 A / 900 W	7.3 A / 1634 W
120 V AC - 1/8 rated pwr (4Ω)	2.3 A / 285 W	4 A / 500 W	4 A / 500 W	7.2 A / 900 W	14 A / 1634 W	4 A / 500 W	7.2 A / 900 W	14 A / 1634 W
Idle / Standby	85 W / 4 W							
Thermal Dissipation								
1/8 rated power 4ohm	164 BTU/h	328 BTU/h	328 BTU/h	655 BTU/h	1310 BTU/h	328 BTU/h	655 BTU/h	1310 BTU/h
Dimensions W x H x D	483x89x342 mm / 19x3.5x13.5 in							
Weight Net	7 kg / 15.4 lb							

Protections: Soft-start, Turn-on Turn-off transients, Muting at turn-on, Over-heating, DC, RF, Short-circuit, Open or mismatched loads, Overloaded power supply, ICL™, PCM™

* IEC filtered pink noise signal (40Hz-5kHz, 12dB crest factor)

Dante™ AES67

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RAM Audio® DENEB Series

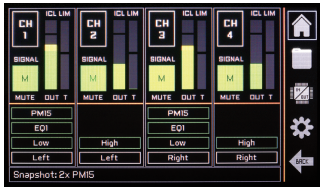


- Large IPS display, capacitive touch panel user interface
- 64 bit double-precision 96kHz DSP process
- Optional AES67 (ATMOS and RAVENNA compatible), Dante™ and AES3 Digital inputs
- Two ports Ethernet and USB port for DSP control
- Optional GPIO for third party interface
- High efficiency class D topology
- Universal power supply with PFC
- Up to 10000 W in 4 channels
- 8, 4 and 2 Ohm low impedance operation
- 100, 70, 50 and 35 V high impedance modes
- RAM Audio Power Control Management (PCM™)
- Phoenix connectors for inputs and outputs
- Up-side-down design to avoid fan dust accumulation
- Temperature controlled, front to back cooling

DSP management: RAM OCS and amplifier display:

Two general working modes: User and Advanced (manufacturer)

- User functionalities:
  - Input Routing/Matrix (basic or advanced)
  - Input EQ section with 7 filters and 20 memories
  - Input EQ Mode section, predefined by the manufacturer
  - Speaker Preset selection predefined by the manufacturer
  - Snapshot library management (up to 20 snapshots)
  - Advanced Control Groups
- Advanced functionalities (manufacturer):
  - Input EQ Mode section creation (10 filters, 20 Modes)
  - Way routing section (Locked/Unlocked)
  - IIR EQ section: XOver, Gain, Delay, and 12 EQ filters
  - FIR EQ section: 22 linear phase XOver and EQ filters, 20 Phase filters or custom file up to 1000 taps
  - RMS and Peak Dynamic control
  - Snapshot library management up to 20 presets (Locked/Unlocked)
  - Speaker Preset library management (up to 100 presets)
  - 5 Security levels definition to limit final user functionality





OUTPUT POWER	DENEB-2.5Q	DENEB-5Q	DENEB-10Q
2 ohms	4x 625 W	4x 1250 W	4x 2500 W
4 ohms	4x 625 W	4x 1250 W	4x 2500 W
8 ohms	4x 625 W	4x 1250 W	4x 1250 W
Hi-Z 100V	4x 625 W 1x 1770 W	4x 1250 W 1x 2500 W	4x 2500 W 1x 2500W
Hi-Z 70V	4x 625 W 1x 1250 W	4x 1250 W 1x 1800 W	4x 2500 W 1x 2500W

DSP Specifications - RAM_OCS Control

Overall:
- High performance 96kHz/24 bits AD/DA converters
- 64 bit double-precision 96kHz DSP process
- 0.85 ms minimum process latency time
- Custom FIR process up to 1000 taps
- AES67, Dante and AES3 input versions

Input Section (x4):
- Gain, Mute and Phase inversion
- Delay: in In A: 333ms (114m), In B/C/D: 90ms (31m)
- Input EQ: 36 filters (Param., Shelving, LP, HP, BP, SB, AP)

Output Section (x4):
- Crossover Filters: FIR and IIR (up to 48dB/oct, Butterw./LR/Bessel)
- Output Delay: 0 to 31 meters (90ms) per channel
- Output IIR EQ: 12 filters per channel (Param., Shel, LP, HP, BP, SB, AP)
- Output FIR EQ: 22 filters per channel (Parametric, Shelving, LP, HP, BP, SB, AP), or Custom. Up to 1000 taps
- RMS and Peak limiter per channel

Communications:
- Two ports Ethernet switch for daisy chain connection
- USB 2.0 Type B port

Miscellaneous:
- 100 Manufacturer system preset memories library
- 20 User preset memories library
- 20 User snapshot memories library
- Manufacturer/User passwords
- User control groups for virtual Equalization, Gain and Delay
- Zones definition for library management and alerts information
- Smaart® analysis software integration

DENEB Technical Specifications

	DENEB-2.5Q	DENEB-5Q	DENEB-10Q
Number of channels	4	4	4
Total output power	2500 W	5000 W	10000 W
Output Power* (All ch driven/single ch)			
2 ohm	4x 625 / 1x 625 W	4x 1250 / 1x 1250 W	4x 2500 / 1x 2500 W
2.67 ohm	4x 625 / 1x 850 W	4x 1250 / 1x 1700 W	4x 2500 / 1x 3300 W
4 ohm	4x 625 / 1x 1250 W	4x 1250 / 1x 2500 W	4x 2500 / 1x 2500 W
8 ohm	4x 625 / 1x 1250 W	4x 1250 / 1x 1250 W	4x 1250 / 1x 1300 W
4 ohm Bridged	2x 1250 W	2x 2500 W	2x 5000 W
8 ohm Bridged	2x 1250 W	2x 2500 W	2x 5000 W
Hi-Z 100V	4x 625 / 1x 1770 W	4x 1250 / 1x 2500 W	4x 2500 / 1x 2500 W
Hi-Z 70V	4x 625 / 1x 1250 W	4x 1250 / 1x 1800 W	4x 2500 / 1x 2500 W
Max output voltage	150 V_{peak}	150 V_{peak}	150 V_{peak}
Max output current	25 A_{peak}	36 A_{peak}	50 A_{peak}
Total Harmonic Distortion		<0.05%	
Crosstalk (20Hz-1kHz), typical		>70dB	
Voltage Gain		26dB to 44dB	
SNR	111 dBA	111 dBA	111 dBA
Nominal Mains Voltage		100V-240V AC, 50Hz-60Hz (Operating: 90V-265V AC)	
Consumption			
230V AC - 1/8 rated power (4 ohm)	2.1 A / 500 W	3.7 A / 900 W	7.3 A / 1634 W
120V AC - 1/8 rated power (4 ohm)	4 A / 500 W	7.2 A / 900 W	14 A / 1634 W
Idle	0.7 A / 85 W	0.7 A / 85 W	0.7 A / 85 W
Thermal Dissipation (1/8 rated power 4ohm)	328 BTU/h	655 BTU/h	1310 BTU/h
Dimensions W x H x D		483x89x330 mm / 19x3.5x13 in	
Weight Net		7 kg / 15.4 lb	

Protections: Soft-start, Turn-on Turn-off transients, Muting at turn-on, Over-heating, DC, RF, Short-circuit, Open or mismatched loads, Overloaded power supply, ICL™, PCM™

* IEC filtered pink noise signal (40Hz-5kHz, 12dB crest factor)

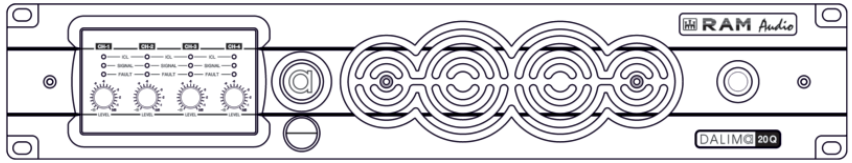
Dante™ AES67

RAM Audio®

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RAM Audio®

DALIMa Series



- High efficiency class D topology
- Universal power supply with PFC
- Up to 20000 W in 4 channels
- 8, 4 and 2 Ohm low impedance operation
- 100, 70, 50V high impedance modes
- Optional GPIO module for 5Q and 10Q
- Optional AES67 (ATMOS and RAVENNA compatible) and Dante inputs
- RAM Audio Power Control Management (PCM™)
- Neutrik® NL8 + 4x NL4 Speakon® connectors
- Up-side-down design to avoid fan dust accumulation
- Neutrik® PowerCon connector (32A for 14/20Q models)

	DALIMa-5Q	DALIMa-10Q	DALIMa-14Q	DALIMa-20Q
Number of channels	4	4	4	4
Total output power	5000 W	10000 W	14000 W	20000 W
Output Power* (All ch driven/single ch)				
2 ohm	4x 1250 / 1x 1250 W	4x 2500 / 1x 2500 W	4x 3500 / 1x 3500 W	4x 5000 / 1x 5000 W
2.67 ohm	4x 1250 / 1x 1700 W	4x 2500 / 1x 3300 W	4x 3500 / 1x 4700 W	4x 5000 / 1x 6700 W
4 ohm	4x 1250 / 1x 2500 W	4x 2500 / 1x 2500 W	4x 3500 / 1x 3750 W	4x 5000 / 1x 6000 W
8 ohm	4x 1250 / 1x 1250 W	4x 1250 / 1x 1300 W	4x 1800 / 1x 1900 W	4x 2500 / 1x 3000 W
4 ohm Bridged	2x 2500 W	2x 5000 W	-	-
8 ohm Bridged	2x 2500 W	2x 5000 W	-	-
Hi-Z 100V	4x 1250 / 1x 2500 W	4x 2500 / 1x 2500 W	4x 3500 / 1x 4200 W	4x 5000 / 1x 5000 W
Hi-Z 70V	4x 1250 / 1x 1800 W	4x 2500 / 1x 2500 W	4x 2950 / 1x 2950 W	4x 3500 / 1x 3500 W
Max output voltage	150 V_{peak}	150 V_{peak}	189 V_{peak}	235 V_{peak}
Max output current	36 A_{peak}	50 A_{peak}	59 A_{peak}	71 A_{peak}
Total Harmonic Distortion	<0.05%			
Crosstalk (20Hz-1kHz), typical	>70dB			
Voltage Gain	26dB to 44dB			
SNR	111 dBA	111 dBA	113 dBA	115 dBA
Nominal Mains Voltage	100V-240V AC, 50Hz-60Hz (Operating: 90V-265V AC)			
Consumption				
230 V AC - 1/8 rated power (4 ohm)	3.7 A / 817 W	7.3 A / 1634 W	10 A / 2288 W	14 A / 3268 W
120 V AC - 1/8 rated power (4 ohm)	7.2 A / 817 W	14 A / 1634 W	19.2 A / 2288 W	26.8 A / 3268 W
Idle	0.7 A / 85 W	0.7 A / 85 W	1 A / 112 W	1 A / 112 W
Thermal Dissipation (1/8 rated power 4ohm)	655 BTU/h	1310 BTU/h	1834 BTU/h	2620 BTU/h
Dimensions W x H x D	483x89x355 mm / 19x3.5x14 in			
Weight Net	7 kg / 15.4 lb	7 kg / 15.4 lb	9 kg / 19.8 lb	9 kg / 19.8 lb

Protections: Soft-start, Turn-on Turn-off transients, Muting at turn-on, Over-heating, DC, RF, Short-circuit, Open or mismatched loads, Overloaded power supply, ICL™, PCM™

* IEC filtered pink noise signal (40Hz-5kHz, 12dB crest factor)

RAM Audio®

RAM Audio® DUBHE Series



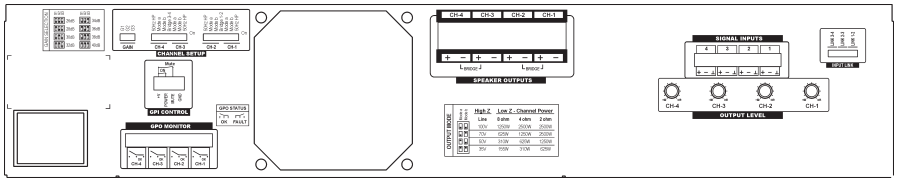
- High efficiency class D topology
- Universal power supply with PFC
- Up to 10000 W in 4 channels
- 8, 4 and 2 Ohm low impedance operation
- 100, 70, 50 and 35 V high impedance modes
- RAM Audio Power Control Management (PCM™)
- Phoenix connectors for inputs and outputs
- Up-side-down design to avoid fan dust accumulation
- Temperature controlled, front to back cooling
- Gain configuration from 26 to 40 dB
- GPIO for third party interface. AES67 (ATMOS and RAVENNA compatible) and Dante options
- Subsonic filter
- Signal link mini-dips configurable
- Output level control in rear panel
- Output mode configuration for high or low impedance with power limitation

DUBHE Series are 4-channels mid/high power level amplifiers dedicated to the installation market where they can be connected loads in both, low and high impedance, through their input and output Phoenix connectors, having output level control potentiometers in the rear panel.

These amplifiers have many configuration possibilities such as bridge mode, subsonic filter, channel power limiter and signal link, among others, in order to satisfy the needs of any particular installation. These devices also can be equipped with a GPIO connection to interface with a third party control system.

With all these configurations DUBHE amplifiers can meet the power requirements of any installation where it is required from 300 up to 2500 W per channel.

OUTPUT POWER	DUBHE-2.5Q	DUBHE-5Q	DUBHE-10Q
2 ohms	4x 625 W	4x 1250 W	4x 2500 W
4 ohms	4x 625 W	4x 1250 W	4x 2500 W
8 ohms	4x 625 W	4x 1250 W	4x 1250 W
Hi-Z 100V	4x 625 W 1x 1770 W	4x 1250 W 1x 2500 W	4x 2500 W 1x 2500W
Hi-Z 70V	4x 625 W 1x 1250 W	4x 1250 W 1x 1800 W	4x 2500 W 1x 2500W



Config parameters:

■ Amp channel setup:	50Hz HP:	50Hz subsonic filter
	Output Mode:	Hi impedance voltage selector. Low impedance power limitation
	Bridge mode:	Low impedance bridge mode. 200V/140V high impedance mode
	Gain selection:	change gain from 26dB to 40dB (2 dB steps)
■ Signal setup:	Input Link:	link input signal in consecutive channels
	Ouput Levels:	hidden potentiometers to adjust output level
■ GPIO interface:	GPI Power:	turn on/off by sustained contact or sustained voltage
	GPI Mute:	mute/unmute completelly amplifier by contact or voltage
	GPO Monitor:	monitor each individual channel, with switching contacts for fault/OK status

DUBHE Technical Specifications

	DUBHE-2.5Q	DUBHE-5Q	DUBHE-10Q
Number of channels	4	4	4
Total output power	2500 W	5000 W	10000 W
Output Power* (All ch driven/single ch)			
2 ohm	4x 625 / 1x 625 W	4x 1250 / 1x 1250 W	4x 2500 / 1x 2500 W
2.67 ohm	4x 625 / 1x 850 W	4x 1250 / 1x 1700 W	4x 2500 / 1x 3300 W
4 ohm	4x 625 / 1x 1250 W	4x 1250 / 1x 2500 W	4x 2500 / 1x 2500 W
8 ohm	4x 625 / 1x 1250 W	4x 1250 / 1x 1250 W	4x 1250 / 1x 1300 W
4 ohm Bridged	2x 1250 W	2x 2500 W	2x 5000 W
8 ohm Bridged	2x 1250 W	2x 2500 W	2x 5000 W
Hi-Z 100V	4x 625 / 1x 1770 W	4x 1250 / 1x 2500 W	4x 2500 / 1x 2500 W
Hi-Z 70V	4x 625 / 1x 1250 W	4x 1250 / 1x 1800 W	4x 2500 / 1x 2500 W
Max output voltage	150 V_{peak}	150 V_{peak}	150 V_{peak}
Max output current	25 A_{peak}	36 A_{peak}	50 A_{peak}
Total Harmonic Distortion		<0.05%	
Crosstalk (20Hz-1kHZ), typical		>70dB	
Voltage Gain		26dB to 44dB	
SNR	111 dBA	111 dBA	111 dBA
Nominal Mains Voltage		100V-240V AC, 50Hz-60Hz (Operating: 90V-265V AC)	
Consumption			
230 V AC - 1/8 rated power (4 ohm)	2.1 A / 500 W	3.7 A / 900 W	7.3 A / 1634 W
120 V AC - 1/8 rated power (4 ohm)	4 A / 500 W	7.2 A / 900 W	14 A / 1634 W
Idle	0.7 A / 85 W	0.7 A / 85 W	0.7 A / 85 W
Thermal Dissipation (1/8 rated power 4ohm)	328 BTU/h	655 BTU/h	1310 BTU/h
Dimensions W x H x D		483x89x342 mm / 19x3.5x13.5 in	
Weight Net		7 kg / 15.4 lb	

Protections: Soft-start, Turn-on Turn-off transients, Muting at turn-on, Over-heating, DC, RF, Short-circuit, Open or mismatched loads, Overloaded power supply, ICL™, PCM™

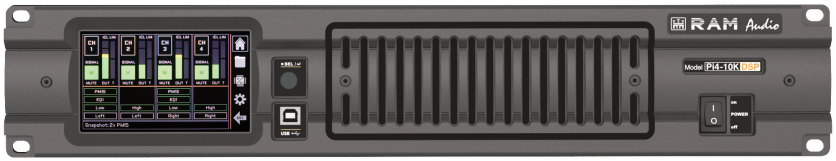
* IEC filtered pink noise signal (40Hz-5kHz, 12dB crest factor)

Dante™ AES67

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RAM Audio® Pi Series

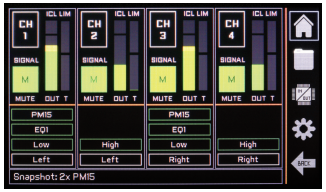


- Extra-large TFT display, capacitive touch panel user interface
- 64 bit double-precision 96kHz DSP process
- High performance 96kHz/24 bits AD/DA converters
- Available versions with AES67 (ATMOS and RAVENNA compatible), Dante™ and AES3 Digital inputs
- Two ports Ethernet switch for daisy chain connection
- USB port for firmware update and DSP control
- High voltage output for high headroom performances
- Similar power per channel in any impedance
- Advanced power management to squeeze until the last watt of your speakers
- Exceptional power sharing in asymmetrical loads
- Powerful and fast response cooling system

DSP management: RAM OCS and amplifier display:

Two general working modes: User and Advanced (manufacturer)

- User functionalities:
  - Input Routing/Matrix (basic or advanced)
  - Input EQ section with 7 filters and 20 memories
  - Input EQ Mode section, predefined by the manufacturer
  - Speaker Preset selection predefined by the manufacturer
  - Snapshot library management (up to 20 snapshots)
  - Advanced Control Groups
- Advanced functionalities (manufacturer):
  - Input EQ Mode section creation (10 filters, 20 Modes)
  - Way routing section (Locked/Unlocked)
  - IIR EQ section: XOver, Gain, Delay, and 12 EQ filters
  - FIR EQ section: 22 linear phase XOver and EQ filters, 20 Phase filters or custom file up to 1000 taps
  - RMS and Peak Dynamic control
  - Snapshot library management up to 20 presets (Locked/Unlocked)
  - Speaker Preset library management (up to 100 presets)
  - 5 Security levels definition to limit final user functionality





OUTPUT POWER	Pi2- 3K	Pi2-5K	Pi4-6K	Pi4-10K
2 ohms	2x 1450 W	2x 2500 W	4x 1450 W	4x 2500 W
4 ohms	2x 1500 W	2x 2500 W	4x 1500 W	4x 2500 W
8 ohms	2x 1100 W	2x 1600 W	4x 1100 W	4x 1600 W
Hi-Z 70V	2x 1500 W	2x 2500 W	4x 1500 W	4x 2500 W
Hi-Z 100V	2x 800 W	2x 2500 W	4x 800W	4x 2500 W

DSP Specifications - RAM_OCS Control

Overall:
- High performance 96kHz/24 bits AD/DA converters
- 64 bit double-precision 96kHz DSP process
- 0.85 ms minimum process latency time
- Custom FIR process up to 1000 taps
- AES67, Dante and AES3 input versions

Input Section (x4):
- Gain, Mute and Phase inversion
- Delay: in In A: 333ms (114m), In B/C/D: 90ms (31m)
- Input EQ: 36 filters (Param., Shelving, LP, HP, BP, SB, AP)

Output Section (x4):
- Crossover Filters: FIR and IIR (up to 48dB/oct, Butterw./LR/Bessel)
- Output Delay: 0 to 31 meters (90ms) per channel
- Output IIR EQ: 12 filters per channel (Param., Shel, LP, HP, BP, SB, AP)
- Output FIR EQ: 22 filters per channel (Parametric, Shelving, LP, HP, BP, SB, AP), or Custom. Up to 1000 taps
- RMS and Peak limiter per channel

Communications:
- Two ports Ethernet switch for daisy chain connection
- USB 2.0 Type B port

Miscellaneous:
- 100 Manufacturer system preset memories library
- 20 User preset memories library
- 20 User snapshot memories library
- Manufacturer/User passwords
- User control groups for virtual Equalization, Gain and Delay
- Zones definition for library management and alerts information
- Smaart® analysis software integration

Amplifier Specifications

	Pi2-3K	Pi2-5K	Pi4-6K	Pi4-10K
Number of channels	2	2	4	4
Total output power	3000 W	5000 W	6000 W	10000 W
Output Power* (All ch.'s driven/single channel)				
2 ohm	2x 1450 W [2] 1x 1450 W [2]	2x 2500 W [2] 1x 2500 W [2]	4x 1450 W [2] 1x 1450 W [2]	4x 2500 W [2] 1x 2500 W [2]
4 ohm	2x 1500 W 1x 1750 W	2x 2500 W 1x 2800 W	4x 1500 W 1x 1900 W	4x 2500 W [1] 1x 3000 W
8 ohm	2x 1100 W 1x 1150 W	2x 1600 W 1x 1700 W	4x 1100 W 1x 1200 W	4x 1600 W 1x 1800 W
4 ohm Bridged	2900 W [2]	5000 W [2]	2x 2900 W [2]	2x 5000 W [2]
8 ohm Bridged	3000 W	5000 W	2x 3000 W	2x 5000 W [1]
Hi-Z 70V	2x 1500 W	2x 2500 W [2]	4x 1500 W	4x 2500 W [2]
Hi-Z 100V	2x 800 W	2x 2500 W	4x 800 W	4x 2500 W [1]
Max output voltage	144 V_{peak}	176 V_{peak}	144 V_{peak}	176 V_{peak}
Max output current	38 A_{peak}	50 A_{peak}	38 A_{peak}	50 A_{peak}
Total Harmonic Distortion	<0.05%			
Crosstalk (20Hz-1kHz), typical	>70dB			
Voltage Gain	26dB to 44dB (1dB step)			
SNR	106 dBA	107.5 dBA	106 dBA	107.5 dBA
Nominal Mains Voltage	185V-240V AC, 50Hz / 100V-125V AC, 60 Hz			
Consumption				
230 V AC - 1/8 rated power (4 ohm)	7.1 A / 1080 W	8.3 A / 1257 W	15.2 A / 2315 W	16.0 A / 2434 W
120 V AC - 1/8 rated power (4 ohm)	13.6 A / 1080 W	15.9 A / 1257 W	29.2 A / 2315 W	30.7 A / 2434 W
Idle	0.5 A / 69 W			
Dimensions W x H x D	483x89x330 mm - 19x3.5x13 in			
Weight Net	6 kg /13.2 lb	8.5 kg / 18.7 lb	8.5 kg / 18.7 lb	8.5 kg / 18.7 lb

Protections: Soft-start, Turn-on Turn-off transients, Muting at turn-on, Over-heating, DC, RF, Short-circuit, Open or mismatched loads, Overloaded power supply, ICL™, PMS™, and SSP™

* IEC filtered pink noise signal (40Hz-5kHz, 12dB crest factor)

[1] PMS can limit output to prevent excessive current draw tripping the mains breaker.

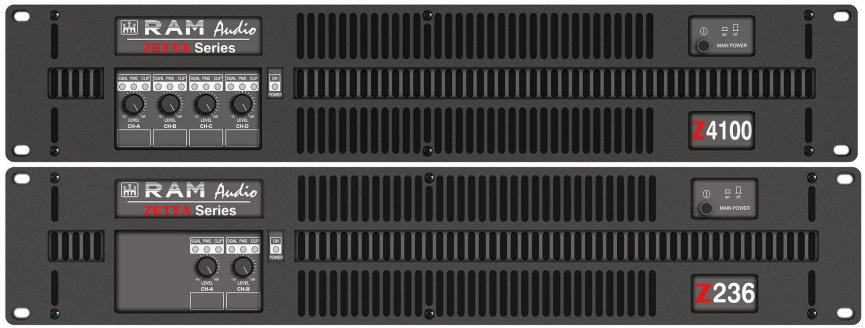
[2] SSP can limit output to prevent excessive heating.

Dante AES67

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RAM Audio® ZETTA Series



- Unmatched audio quality hi efficiency Class H design
- 2/4 Channels models from 1.000W up to 10.000W
- Ultra light weight 6.5kg, compact package 25cm deep
- Last generation QuantaPulse™ switch mode power supply
- RAM Audio Power Management System (PMS™) and Clip Limiter (ICL™)
- Up-side-down design to avoid fan dust acumulation
- Industry standard Neutrik® XLR and Speakon® connectors
- Comprehensive protection set (ICL, PMS, SSP, turn-on, Temp, DC....)
- Detented sealed potentiometers
- Dual or bridge mode operation
- Temperature controlled, back to front cooling

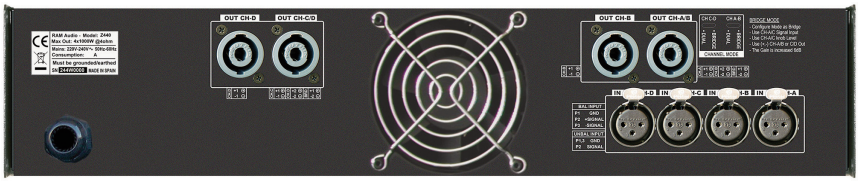
The RAM Audio ZETTA Series, is the result of an in depth study, in order to reach the best compromise between economy and performances, taking advantage of latest improvements in automated mixed surface mount and through hole electronic assembly.

ZETTA Series are a project based on an up-side-down mono-block approach offering an all-in-one power module that contains the entire amplifier assembly. Simplicity and effectiveness run hand by hand through the entire design to obtain an effectively skilled and workable product. The last generation QuantaPulse switching power supply allows to reach a new level of refined sensing and control of the power flow.

The cost-effective ZETTA Series amplifiers are packed with solid and convincing arguments for the professionals researching quality, reliability and value!

OUTPUT POWER	Z210	Z215	Z220	Z236	Z420	Z430	Z440	Z460	Z4100
2 Ohm	2x 500 W	2x 750 W	2x 1000 W	2x 1800 W	4x 500 W	4x 750 W	4x 1000 W	4x 1450W	4x 2500 W*
4 Ohm	2x 400 W	2x 700 W	2x 1000 W	2x 1750 W	4x 400 W	4x 700 W	4x 1000 W	4x 1500W	4x 2500 W*
WEIGHT	5kg-11lb	5kg-11lb	6.5kg-14.3lb	6.5kg-14.3lb	6.5kg-14.3lb	6.5kg-14.3lb	6.5kg-14.3lb	8.5kg-18.7lb	8kg-17.6lb
DEPTH	25.4cm-10"	25.4cm-10"	25.4cm-10"	25.4cm-10"	25.4cm-10"	25.4cm-10"	25.4cm-10"	32cm-12.6"	27.4cm-10.8"

* Limited by PMS system with all channels driven



ZETTA Technical Specifications

	Z-210	Z-215	Z-220	Z-236	Z-420	Z-430	Z-440	Z-460	Z-4100
Output Power									
@ 2 ohm	2x 500W	2x 750W	2x 1000W	2x 1800W	4x 500W	4x 750W	4x 1000W	4x 1450W	4x 2500W*
@ 4 ohm	2x 400W	2x 700W	2x 1000W	2x 1750W	4x 400W	4x 700W	4x 1000W	4x 1500W	4x 2500W*
@ 8 ohm	2x 240W	2x 450W	2x 650W	2x 950W	4x 220W	4x 450W	4x 630W	4x1100W	4x 1400W
Bridge @ 4 ohm	1000W	1500W	2000W	3600W	2x 1000W	2x 1500W	2x 2000W	2x 2900W	2x 5000W*
Bridge @ 8 ohm	800W	1400W	2000W	3500W	2x 800W	2x 1400W	2x 2000W	2x 3000W	2x 5000W*
High Z									
70Vrms/100Vpeak	1x 900W	-	2x 700W	-	2x 900W	-	4x 700W	4x 1500W	-
100Vrms/140Vpeak	-	1x 1400W	-	-	-	2x 1400W	-	4x 800W	-
Frequency Response									
Power Bandwidth ±0.25dB	20Hz-20kHz								
Total Harmonic Distortion									
20Hz-20kHz	<0.05%								
Intermodulation Distortion									
SMPTE	<0.05%								
Damping Factor									
20-500Hz @8Ω	>500								
Crosstalk									
20Hz-1kHz (typical)	>70dB								
Voltage Gain				35dB				26-40dB	26-40dB
Sensitivity									
Rated Power	0.8 V	1.1 V	1.3 V	1.6 V	0.8 V	1.1 V	1.3 V	4.7V-0.9V	5.3V-1.1V
Signal-to-Noise Ratio									
20Hz-20kHz	101dBA	103dBA	104dBA	105dBA	101dBA	103dBA	104dBA	106dB	107.5dBA
Required AC Mains									
Operating Voltage (50Hz-60Hz)	170V-265V AC / 90V-140V AC								
Power On Idling (@230V)	0.5 A	0.5 A	0.5 A	0.5 A	0.5 A	0.5 A	0.5 A	0.5 A	0.5 A
1/8 Rated Power (@4 ohm)	3.5 A	4 A	5 A	10 A	7 A	8 A	10 A	15 A	16 A*
Dimensions									
W x H x D (mm)	483x89x254							483x89x335	
W x H x D (inches)	19x3.5x10							19x3.5x13.2	
Weight									
Net (Kg-Lbs)	5-11	5-11	6.5-14.3	6.5-14.3	6.5-14.3	6.5-14.3	6.5-14.3	8.5-18.7	
Protections									
Soft-start, Turn-on/off transients, Over-heating, DC, RF, Short-circuit, Open or mismatched loads, ICL™, PMS™ and SSP™									

*Limited by PMS system with all channels driven

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MDi Series



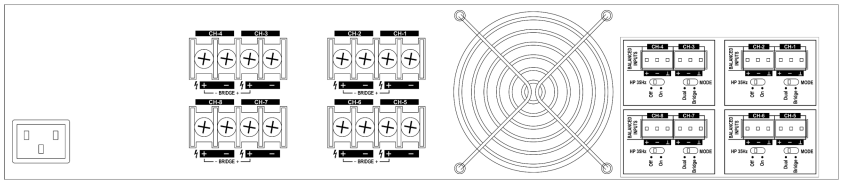
Dante
AES67

- Hi audio quality in an extremely efficient class D design
- Last generation PFC QuantaPulse™ switch mode PS
- 2/4/8 channels models from 1400W up to 12000W
- Analogue, AES67 (ATMOS and RAVENNA compatible) or Dante™ audio inputs
- Barrier Strips/Phoenix or XLR/Speakon connectors
- 70V/100V Line Direct/Drive Output
- Ultra light weight 5.5kg, compact package 40cm deep
- RAM Audio Power Management System (PMS™)
- Up-side-down design to avoid fan dust acumulation
- Detented sealed potentiometers
- Optionally tamper proof potentiometers
- Comprehensive protection set (ICL, PMS, turn-on, Temp, DC....)
- Modular construction for an easy after-sales service
- Temperature controlled, front to back cooling

MDi Series is the newest solution from RAM Audio for fixed installations, where state-of-the-art amplification technology has been used to manage acoustic systems in the most efficient and greenest way possible, without diminishing quality of sound and dynamics that have always typified RAM Audio amplifiers.

A new generation of QuantaPulse switching mode power supplies with Power Factor Correction to improve efficiency, with a schematic thought to give a very high capacity of instantaneous power, together with very evolved high efficiency audio modules in class D with an excellent quality of sound, are the basis on which RAM Audio has developed this new series that is capable of offering the most optimal solution to the very exigent fixed-installations market.

OUTPUT POWER	MDi2-1K4	MDi2-2K7	MDi2-6K	MDi4-2K4	MDi4-6K	MDi4-12K	MDi8-2K7	MDi8-6K
4 Ohm	2x 700 W	2x 1350 W	2x 3000 W	4x 610 W	4x 1500 W	4x 3000 W	8x 340 W	8x 750 W
8 Ohm	2x 375 W	2x 900 W	2x 1500 W	4x 350 W	4x 800 W	4x 1500 W	8x 225 W	8x 400 W
High Z 70V	-	2x 1350 W	-	-	4x 1500 W	-	4x 680 W	-
High Z 100V	1x 1400 W	-	2x 3000 W	2x 1200 W	-	4x 3000 W	-	4x 1500 W
WEIGHT	5kg-11lb	5kg-11lb	6kg-13.2lb	5kg-11lb	7.5kg-16.5lb	9.5kg-20.9lb	7.5kg-16.5lb	8kg-17.6lb
DEPTH	25.4cm-10"	25.4cm-10"	25.4cm-10"	25.4cm-10"	39.6cm-15.6"	39.60cm-15.6"	39.6cm-15.6"	39.6cm-15.6"



MDi Technical Specifications

	MDi2-1K4	MDi2-2K7	MDi2-6K	MDi4-2K4	MDi4-6K	MDi4-12K	MDi8-2K7	MDi8-6K
Output Power*								
@ 4 ohm	2x 700W	2x 1350W	2x 3000W	4x 610W	4x 1500W	4x 3000W	8x 340W	8x 750W
@ 8 ohm	2x 375W	2x 900W	2x 1500W	4x 350W	4x 800W	4x 1500W	8x 225W	8x 400W
Bridge @ 8 ohm	1x 1400W	-	-	2x 1220W	-	-	4x 680W	4x 1500W
High Z								
70Vrms/100Vpeak	-	2x 1350W	-	-	4x 1500W	-	4x 680W	-
100Vrms/140Vpeak	1x 1400W	-	2x 3000W	2x 1200W	-	4x 3000W	-	4x 1500W
Frequency Response								
Power Bandwidth ±0.25dB	20Hz-20kHz							
Total Harmonic Distortion								
20Hz-20kHz	<0.05%							
Intermodulation Distortion								
SMPTE	<0.05%							
Damping Factor								
20-500Hz @8 ohm	>400							
Crosstalk								
20Hz-1kHz (typical)	>70dB							
Voltage Gain	32dB							
Sensitivity								
Rated Power(@32dB)	1.4 V	2.1 V	2.8 V	1.3 V	2 V	2.8 V	1.1 V	1.4 V
Signal-to-Noise Ratio								
20Hz-20kHz	101dBA	103dBA	104dBA	105dBA	101dBA	103dBA	104dBA	104dBA
Required AC Mains								
V AC (50Hz-60Hz)	170-265**		90-265	170-265**	90-265	90-265	170-265**	90-265
Power On Idling (@230V)	0.6 A	0.6 A	0.6 A	0.6 A	0.6 A	0.6 A	0.6 A	0.6 A
1/8 Rated Power (@4 ohm)	1.8 A	4 A	4.5 A	3.2 A	4.5 A	9 A	4 A	4.5 A
Dimensions								
W x H x D (mm)	483x88.9x254				483x88.9x396			
W x H x D (inches)	19x3.5x10				19x3.5x15.6			
Weight								
Net (Kg-Lbs)	5-11	5-11	6-13.2	5-11	7.5-16.5	9.5-20.9	7.5-16.5	5-11
Protections								
Soft-start, Turn-on Turn-off transients, Over-heating, DC, RF, Short-circuit, Open or mismatched loads, ICL™, PMS™								

*All channels driven, full bandwidth P.N. 12dB C.F. ** Also version for 90V-140V AC

Dante
AES67

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RAM Audio® XTR Series



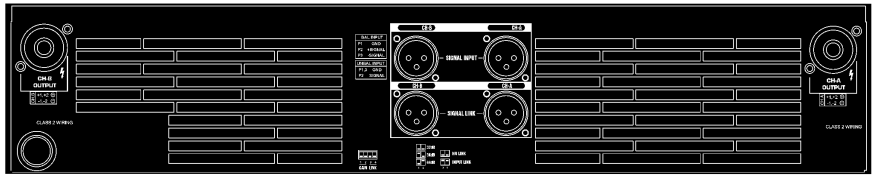
- Dual PFC QuantaPulse™ Regulated SMPS
- Max. Output: 270V / 70A peak
- Dedicated design for powerful subwoofers
- 32/38/44 dB selectable Gain
- RAM Audio Power Management System
- Hi Efficiency, Heavy Duty Audio Power section for extreme use
- Removable front panel dust filters
- Efficient front to back cooling
- Industry standard Neutrik® XLR and Speakon® connectors

The RAM Audio XTR Series has been designed with the aim of offering the proper and more reliable amp to users of very big subwoofers with no concessions. Their output performances (270V/70A) are more than needed to push your subs as far as their maximum limits accept.

These 2 and 4 channels devices are based on the field proven Quanta PulseTM Technology with an oversized dual high capacity regulated power supply with PFC to deliver their full performances independently of mains status, and an also oversized high efficiency audio power stage, forced front to back cooling through a component-free path with removable front panel dust filters, improved rugged mechanical design with even weight distribution.

In short… with XTR amplifiers you make sure that you will get the maximum output performances to your more powerful subwoofers without compromises!

OUTPUT POWER	XTR-12K	XTR-18K	XTR-12K4
4 Ohm	2x 6000 W	2x 9000 W	4x 2950 W
8 Ohm	2x 3000 W	2x 4500 W	4x 1550 W
WEIGHT	12kg-26.5lb	12kg-26.5lb	12kg-26.5lb
DEPTH	46cm-18.1”	46cm-18.1”	46cm-18.1”



Technical Specifications

	XTR-12K	XTR-18K	XTR-12K4
Output Power (1kHz, 1.0% THD+N)			
@4 ohm	2x 6000 W	2x 9000 W	4x 2950W
@8 ohm	2x 3000 W	2x 4500 W	4x 1550 W
Bridge @8 ohm	-	-	2x 5900 W
Frequency Response			
Power Bandwidth ±0.25dB		20Hz-20kHz	
Total Harmonic Distortion			
20Hz-20kHz	<0.05%	<0.05%	<0.05%
Intermodulation Distortion			
SMPTE	<0.05%	<0.05%	<0.05%
Damping Factor			
20-500Hz @8 ohm	>500	>500	>500
Crosstalk			
20Hz-20kHz (typical)	>70dB	>70dB	>70dB
Voltage Gain	32/38/44 dB	32/38/44 dB	32/38/44 dB
Sensitivity			
Rated Power (32/38/44dB Gain)	3.9/1.9/1 V	4.7/2.4/1.2 V	2.8/1.4/0.7V
Signal-to-Noise Ratio			
20Hz-20kHz	116dB	118dB	116dB
Required AC Mains			
Operating Voltage (50Hz-60Hz)	90V-265V AC	170V-265V AC	90V-265V AC
Power On Idling (@230V)	0.5 A	0.5 A	0.5 A
1/8 Rated Power @4 ohm (@230V)	14 A	16 A*	13 A
(*limited by PMS for fuse saver protection)			
Dimensions			
W x H x D (mm)		483x89x460	
W x H x D (inches)		19x3.5x18.1	
Weight			
Net (Kg-Lbs)	12-26.5	12-26.5	12-26.5
Protections			
Soft-start, Turn-on Turn-off transients, Muting at turn-on, Over-heating, DC, RF, Short-circuit, Open or mismatched loads, Overloaded power supply, Mains Overvoltage, ICL™, PMS™, SSP™ and FCM™			

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