

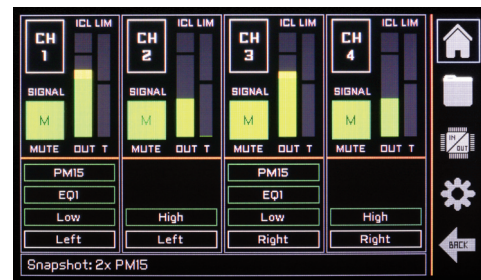


- Large IPS display, capacitive touch panel user interface
- 64 bit double-precision 96kHz DSP process
- Optional AES67, Dante™ and AES3 Digital inputs
- Two ports Ethernet and USB port for DSP control
- Optional GPIO for third party interface
- Low weight high efficiency class D topology
- Universal 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 Analog/Dante/AES3
 - Input EQ section with 8 filters and 20 memories
 - Input EQ Mode section, predefined by the manufacturer
 - System Preset selection predefined by the manufacturer (Locked/Unlocked)
 - Snapshot library management up to 20 presets
 - Master Control Groups
- Advanced functionalities (manufacturer):
 - Input EQ Mode section creation, up to 20 presets
 - Ways routing section (Locked/Unlocked)
 - IIR EQ section: XOver, Gain, Delay, and 7 EQ filters
 - FIR EQ section: linear phase XOver and EQ filters, or custom up to 1000 taps
 - RMS and Peak Dynamic control
 - Snapshot library management up to 20 presets (Locked/Unlocked)
 - System Preset library management up to 100 pre-sets
 - 5 Security levels definition to limit final user functionality



OUTPUT POWER	DENEb-2.5Q	DENEb-5Q	DENEb-10Q
2 ohms	4x 312 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 1250 W	4x 1250 W 1x 2500 W	4x 2500 W 1x 2500W
Hi-Z 70V	4x 625 W 1x 900 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: 16 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: 20 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
- Smart® 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 312 / 1x 312 W	4x 1250 / 1x 1250 W	4x 2500 / 1x 2500 W
2.67 ohm	4x 430 / 1x 430 W	4x 1250 / 1x 1700 W	4x 2500 / 1x 3300 W
4 ohm	4x 625 / 1x 625 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 625 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 1250 W	4x 1250 / 1x 2500 W	4x 2500 / 1x 2500 W
Hi-Z 70V	4x 625 / 1x 900 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	18 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 / 420 W	3.7 A / 840 W	7.3 A / 1680 W
120V AC - 1/8 rated power (4 ohm)	3.6 A / 783 W	7.2 A / 1566 W	14.3 A / 3132 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®