

VIDA-16Q

AMPLIFIERS

Digital Amplifiers



PRODUCT OVERVIEW

VIDA-16Q is a 1600W digital amplifier, with 4 amplified outputs that can be independently configured in high (100/70V) or low (8/4/20hm) impedance. The VersaPower technology, developed by Ecler, allows an asymmetrical power distribution, and thanks to the Smart VersaPower tool it helps installers by facilitating a smart and fast configuration. In addition, the Class D amplification technology as well as the configurable 4-outputs auto standby and sleep mode functions, both configurable, further improve energy efficiency.

This device offers a wide range of possibilities thanks to its 4 analogue and 4 Dante[™]/ AES67 digital inputs, audio player - with microSD slot for local audio files – as well as signal generator, plus 2 auxiliary line outputs and 4 Dante[™]/ AES67 digital outputs.

All these features are managed from its intuitive web application which, among other functionalities, allows signal routing - matrix -, audio signal processing - such as equalisation or limiters -, priority management, GPIO configuration through events, as well as calendar events, playlist management and SD card content, thus facilitating the start-up of the audio-visual installation, its maintenance and customisation.

Thanks to the Android/iOS/Web application available to the end user, the audio installation can be managed by them in an easy, intuitive, and customised way.

KEY FEATURES

- 4 amplified outputs VersaPower 1600W.
- 4 Dante[™]/ AES67 outputs and 4 Dante[™]/ AES67 inputs.
- 2 auxiliary outputs.
- 4 analogue inputs.
- Audio player. MicroSD card slot.
- Internal matrix and signal processing.
- Web application for device configuration.
- Smart power management Smart VersaPower.
- Control and scheduled events for automation.
- Customize user panels.
- Remote control user application for iOS/Android/Web.
- Ultra-low power consumption mode

APPLICATIONS

- Leisure
- Hospitality
- Education
- Corporate
- Sports & Wellness



TECHNICAL SPECIFICATIONS

VIDA-16Q

INPUTS	
Number of Inputs	4 analogue input channels
	4 DANTE™/ AES67 Network Rx channels
	1 embedded player, 1 embedded signal generator
Analogue input connection type	IN1-4: 3-pin Euroblock, balanced, pitch 3,5 mm.
Digital input connection type	Ethernet, managed via Dante™/ AES67 Controller
Input configuration	Digital matrix 4 in \times 6 out (Settings by embedded we application)
AMPLIFIED OUTPUTS	арривальну
Number of amplified outputs	4
Amplified output connection type	2-pin Euroblock. Pitch: 7,62 mm
,,p 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	Ref: DEGSON 5EDGRC-7.62
Output configuration	Lo-Z/Hi-Z, 70V/100V, 4Ω/8Ω/2Ω
Output configuration	Output mode selection per channel
	Rear panel DIP SWITCH selectors
VERSAPOWER	
SYMMETRICAL - All channels driv	en @1kHz @CF9dB @ 1%THD
Max output power @ 8Ω	400W
Max output power @ 4Ω	400W
Max output power @ 2Ω	400W
Max output power @ 100V	400W
Max output power @ 70V	400W
ASYMMETRICAL - Single channel	driven @1kHz @CF9dB @ 1%THD
Max output power @ 8Ω	1400W
Max output power @ 4Ω	1600W
Max output power @ 2Ω	1600W
Max output power @ 100V	1600W
Max output power @ 70V	1600W
AUXILIAR OUTPUTS	
Number of auxiliar outputs	2
Auxiliar output connection type	AUX1-2: 3-pin Euroblock, balanced (Euroblock pitch 3,5 mm.
	Settings by embedded web application)
DIGITAL OUTPUTS	
Number of digital outputs	4
Digital output connection type	Ethernet, managed via Dante™/ AES67 Controller

ECLER TECHNICAL DATA SHEET



SIGNAL

Voltage gain 28 to 40 dBV

30,2 to 42,2 dBu

Input sensitivity -6 to +6 dBV

-3,78 to 8,2 dBu

0,5 to 2 Vrms

(adjusted by means of Smart Versa Power utility)

Input impedance >24k (balanced)

Max input level +18 dBV

+20,2 dBu

(@ Gain 34 dBV)

Frequency response | 15Hz-25kHz (-3dB, 1W any load)

THD + Noise < 0,1 %

0,015 Typ

(@ 1kHz, from 0,1W to Full Power)

SNR 95 dBA (40dB Gain, from 20Hz - 20kHz)

Crosstalk >80dB (@ 1kHz)

CMRR > 65 Typ (from 20Hz-20kHz)

Damping factor >500 (@ 8Ω , from 20Hz to 1kHz)

ELECTRICAL

Power supply Universal, regulated SMPS with PFC

AC mains requirement | 100-240 V @ 50-60Hz ((±10%) Power factor correction | > 0,96 (Output Power > 500W)

AC mains connector | IEC C14 inlet (10Amax)

POWER & HEAT @230VAC

1/4 POWER, @ 4Ω (all channels driven)

Power | 607 W | 640 VA

Current Draw 3,8 Arms

Thermal Loss | 178,0kcal/h | 706,5BTU/h

1/8 POWER, @ 4Ω (all channels driven)

Power | 362 W | 414 VA

Current Draw 1,8 Arms

Thermal Loss | 139,3kcal/h | 552,9BTU/h

IDLE (all channels driven)

Power | 72 W | 122 VA

Current Draw 0,52 Arms

Thermal Loss 61,9kcal/h | 245,7BTU/h

SLEEP MODE (all channels driven)

Power | 4,1 W | 23,8 VA

Current Draw 0,1 Arms

Thermal Loss 3,5kcal/h | 14BTU/h



POWER & HEAT @120VAC

1/4 POWER, @ 4Ω (all channels driven)

Power | 604 W | 611 VA

Current Draw 5,17 Arms

Thermal Loss | 175,4kcal/h | 696,3BTU/h

1/8 POWER, @ 4Ω (all channels driven)

Power | 354 W | 362 VA

Current Draw 3,04 Arms

Thermal Loss | 132,4kcal/h | 525,6BTU/h

IDLE (all channels driven)

Power | 68 W | 89 VA

Current Draw 0,75 Arms

Thermal Loss | 58,5kcal/h | 232,1BTU/h

SLEEP MODE (all channels driven)

Power | 3,6 W | 10,2 VA

Current Draw 0,09 Arms

Thermal Loss | 3,1kcal/h | 12,3BTU/h

TECHNOLOGIES

Amplification technology Class D

Energy saving | Auto standby function programmable per channel

Sleep Mode function selectable

Efficiency 68% (1/4 POWER, @ 4Ω)

Cooling Fan (forced air, front to back airflow. Temperature controlled

continuously variable speed)

Maximum fan noise 45dB (maximum acoustical noise @1m)

PROTECTIONS

DC protection Yes (protects loudspeaker and installation against DC and

infrasonic signals at the outputs)

HF protection Yes (protects the loudspeakers against non-audible, strong, non-

musical high frequency signals)

Short-circuit protection Yes (protects the amplifier from overcurrent, short circuit or other

stressful events for the output stages with output reduction or

MUTE (automatic protection reset)

Clip limiter Yes (prevents severely clipped waveforms from reaching

loudspeakers, while still maintaining full peak power output).

Long term limiter Yes (protects the loudspeaker and amplifier against steady long

term rms signals (sine wave, non-music) reducing maximum

output)

Thermal protection | Yes (output power reduction when output stages operating

temperature up to 90 °C (194 °F). Mute when output stages

operating temperature up to 100 °C (212 °F)



ON / OFF GPIs GPIs x4 GPIs (0-10V) Function and settings by embedded web application 5-pin Euroblock connector, rear panel. Euroblock pitch 3,5 mm At NC / NO contacts 4x 3pins Euroblock connector, rear panel Euroblock pitch 3,5 mm External MUTE Yes, contact (2 pins Euroblock connector, rear panel, Euroblock pitch 3,5 mm) LOCAL CONTROL Attenuators Output mode settings Output mode settings Output mode selection per channel (Rear panel DIP SWITCH selectors)	REMOTE CONTROL CONNECTIONS	
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Standby / Mute STBY/MUTE LED (White) per channel		
	Standby / Mute	
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Limit LIMIT LED (Red) per unit	Limit	
(Power (power supply) overload)	2	
Thermal THERMAL LED (Red) per unit (Temperature limiter)	Thermal	
Dante TM / AES67 DANTE TM / AES67 LED (White) per unit (OFF NO WIRE, ON		
when MASTER, BLINK when SLAVE)	_ = === , .	i 'i
Data DATA LED (White) per unit (ON when DATA)	Data	· ·
On ON LED (White) per unit (ON when RUN,		
SLOW BLINK when SLEEP by BUTTON, FAST BLINK when		· · · · · · · · · · · · · · · · · · ·
SLEEP by AUTOSTBY, VERY FAST BLINK when HW Fault)		SLEEP by AUTOSTBY, VERY FAST BLINK when HW Fault)



DIGITAL ENGINE	
Processor	Quad core 64bits 1,5GHz
AUDIO CONVERTERS	Quad core o 1818 1,50112
Sampling rate	48 kHz
Resolution	24 bit
Dynamic range	114dB
PROCESSING	
Digital processing	32/64 bit
Latency	2,8 ms (Analog IN to analog OUT)
Inputs processing	Noise gate, HPF, Freq. Shifter, compressor/limiter
Outputs processing	Delay, Parametric EQ, Graphic EQ independent for every amp
	out and aux out.
	Limiters independent for every amp out
	Smart VersaPower management
	(Settings by embedded web application)
Others	Preset management, Internal matrix, priority & backup signals
	management, local & network groups, events management incl.
	calendar (Settings by embedded web application)
REAL-TIME CLOCK	
Retention time	> 5 years
Accuracy	±1 minute / month
Battery	VARTA CR2032 3V, 230mAh
LOCAL STORAGE	
Micro SD	SDXC
Capacity	Up to 2TB
File system	FAT16, FAT 32, VFAT (read/write)
	NTFS (read)
	Multi-partition up to 1
Playable audio files	mp3, ogg, WAV, FLAC, AIFF
Files analysis	65354 playable folders
	65354 playable folders within each folder
	65354 playable files within each folder
Folder hierarchy	Up to 8 containing the root directory
Sorting	UNICODE, in alphabetical order
	Up to 100 folders / files by folder
	Folders/files over 100 sorted in the FAT order
PHYSICAL	
Operating temperature	-10° to 50° C
	14° to 122° F
	(performance may be reduced above 40 °C)
Operating humidity	5 - 85% RH, non-condensing
Storage temperature	-10° to 50° C
	14° to 122° F



Storage humidity 5 - 85% RH, non-condensing Installation options Rack 19" installation & desktop

Included accessories Universal Main cords, Euroblock Connectors (inputs /outputs),

Desktop feet, rack 19" installation hardware

Optional accessories

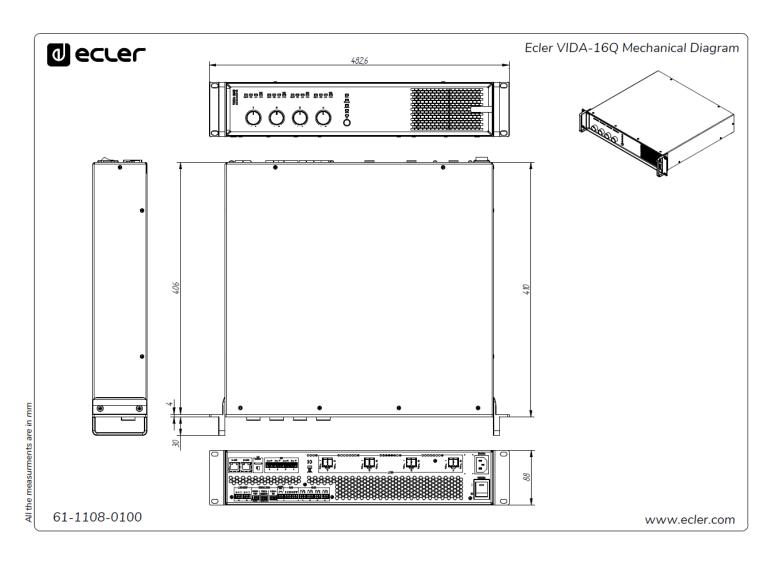
Dimensions (WxHxD) 482.6 x 88 x 410 mm. / 19 x 3.46 x 16.14 inches

Weight 9.3 kg / 20.5 lb

Shipping dimensions (WxHxD) 650 x 125 x 600 mm. / 25.59 x 4.92 x 23.62 inches

Shipping weight 12.3 kg / 27.1 lb

MECHANICAL DIAGRAM





A & E SPECIFICATIONS

The amplifier must be an energy efficient four outputs Class-D power digital amplifier, containing 4 amplified outputs that can be independently configured in high (100/70V) or low (8/4/20hm) impedance with a total output power of 1600 Watt. The power distribution shall be asymmetrical using VersaPower technology. It shall support 4 analogue inputs, 4 digital DanteTM / AES67 inputs and 4 digital DanteTM / AES67 outputs formatted networked audio, as well as an audio player - with microSD slot for local audio files playback, a signal generator, plus 2 auxiliary line outputs.

The amp stage construction must be transformerless using Class-D amplifier technology and powered by a switching power supply. Each amplified output shall have integrated circuitry to protect against short-circuits or mismatched loads and over-heating. The amplifier must be Forced air cooled, front to back airflow, so that maintenance can be kept to a strict minimum. An automatic signal detection circuit shall be implemented, switching the amplifier to standby or sleep mode function when no audio input signal is detected. The sleep mode mains consumption shall be less than 4.2 Watt.

The amplifier should be managed from its web application, allowing signal routing and mixing - matrix -, audio signal processing - such as equalisation and limiters -, priority management, GPIO configuration through events, as well as calendar events, playlist management and SD card contents, thus facilitating the start-up of the audio-visual installation, its maintenance and customisation. The amplifier should be remotely controlled by the users, with a mobile application, compatible with Android and iOS.

The front panel shall contain an ON switch accompanied by a white power LED indicator, white DATA LED indicator, white DANTE™ LED indicator and a red THERMAL LED indicator. A white signal LED, per channel, indicates the presence of an input signal, a red clip LED indicating the output operation at maximum level and a protection LED indicating any fault detected shall be provided for each channel. The level controls shall be located on the front panel.

All connections shall be made on the rear panel of the unit. The audio signal input connections shall be balanced and performed using euroblock connectors. The amplified audio output connections must be fitted with terminal block connectors. The amplifier must have 4 GPI and 4 GPO general purpose controls (euroblock connector).

The amplifier shall operate on a 100-240V AC - 50/60 Hz mains network and shall be equipped with a removable power cord having a standard shuko (CEE 7/7) AC plug. The connector on the amplifier chassis shall be a fused IEC C14 type. The amplifier chassis shall be a 2UR steel constructed 19" housing. Depth from mounting surface to rear supports shall be 410 mm and the weight shall not exceed 9.3 Kg.

The amplifier shall be the ECLER VIDA-16Q.



All product characteristics are subject to variation due to production tolerances. **NEEC AUDIO BARCELONA S.L.** reserves the right to make changes or improvements in the design or manufacturing that may affect these product specifications.

For technical queries contact your supplier, distributor or complete the contact form on our website, in <u>Support / Technical requests</u>.

Motors, 166-168 - 08038 Barcelona - Spain - (+34) 932238403 | information@ecler.com | www.ecler.com