ideato, progettato, ingegnerizzato in Italia

AP4.9 bit

4 channel amplifier featuring
9 channel built-in processor.

AP4.9 bit amplifier was designed for the Integration into OEM front/rear systems where a lot of power is required. The built-in processor, that this amplifier shares with the AP8.9 bit, provides the ability to assign the pre-outs to the AP1 D amplifier to drive a subwoofer, to the AP4 D amplifier to have 4 additional amplified channels exceeding 1080 W @ 4 - 2 Ω total power.

POWER SUPPLY

Voltage:	7.5 ÷ 15 VDC
Idling current:	1.32 A
Switched off:	<2 mA
Consumption @ 14.4 VDC 2Ω Max Musical Power (without CPL):	30 A
Remote IN	7 ÷ 15 VDC (1 mA)
Remote OUT	11 ÷ 15 VDC (200 mA)
Fuse	30 A
ART (Automatic Remote Turn on/off)	Speakers to input - selectable
AST (Automatic Signal Turn on/off)	Pre-In to input - selectable
CPL (Continuous Power Limiting)	Max continuous power - selectable

AMPLIFIER STAGE

Distortion - THD @ 1 kHz, 4 Ω, 90% Output Power:	0.10 %
Bandwidth @ -3 dB, 2 V RMS, 4Ω:	10 ÷ 20k Hz
S/N ratio @ A weighted, 2V, Output Power:	95 dBA
Damping factor @ 1 kHz, 2 V RMS, 4Ω:	>170
Input sensitivity:	2 ÷ 15 V RMS
Input impedance:	15k Ω
LOAD IMPEDANCE (MIN):	
• 4 Ch: 1-2-3-4	2Ω
• 2 Ch: Bridge (1-2) (3-4)	4Ω
MAX POWER	520 W
***OUTPUT POWER (RMS) @ 14.4 VDC, 1% THD*:**	
• 4 Ch @ 4Ω:	70 W x 4
• 4 Ch @ 2Ω:	130 W x 4
• 2 Ch - (Bridge 1/2; 3/4) @ 4 W	260 W x 2
***OUTPUT POWER (RMS) @ 14.4 VDC, 10% THD*:**	
• 4 Ch @ 4Ω:	90 W x 4
• 4 Ch @ 2Ω:	180 W x 4
• 2 Ch - (Bridge 1/2; 3/4) @ 4 W	360 W x 2

CEA SPECIFICATIONS

Output power @ 4Ω, ⩽1% THD+N, 14.4 V:	70 W x 4
SN ratio (ref. 1 W output):	75 dBA

SIGNAL CONNECTIONS

Input Stage:	
• Config 1	Hi / Lo level FL-FR-RL-RR + N.2 customizable
• Config 2	Hi / Lo level FL-FR-RL-RR + Stereo Aux In (Selectable: DRC/wire)
• Optical IN (S/P-DIF PCM)	96 kHz/24 bit max (Selectable: DRC/wire)

DIGITAL SIGNAL PROCESSOR

(32 bit Cirrus Logic; Clock speed: 147 MHz)

Crossover:	Full / Hi Pass / Lo Pass / Band Pass
Crossover type and slope:	Linkwitz @ 12/24 dB - Butterworth @ 6/12/18/24 dB
Crossover Frequency:	68 steps @ 20 ÷ 20k Hz
Phase inversion:	0° / 180°
Analog Input Equalizer:	Automatic De-Equalization
Output Equalizer	N.9 Parametrics Equalizers: ±12 dB; 10 pole; 20 ÷ 20k Hz
Time Alignment Distance	0 ÷ 510 cm / 0 ÷ 200.8 in.
Time Alignment Delay	0 ÷ 15 ms
Time Alignment Step	0,08 ms; 2,8 cm / 1.1 in.
Time Alignment Fine Set	0,02 ms; 0,7 cm / 0.27 in.
SYSTEM SET: **Preset (Drive Preset)**	Rotary switch for 7 installation Presets
Acoustic Preset	N.2 DSP Memory, DRC selectable/customizable

CONTROL CONNECTIONS

From / to personal computer	1 x micro USB-B
To Audison Electronics	DRC controls
ASP	For module: Automatic Speaker Presence
Optical / AUX select	12V control for Optical In / AUX enable
Master enable	12V control for Master In enable

GENERAL REQUIREMENTS

PC connections	Micro USB (1.1 / 2.0 / 3.0)
Software/PC requirements:	Microsoft Windows (32/64 bit): XP, Vista, Windows 7, Windows 8
Graphic card min. resolution:	800 x 600
Ambient operating temperature range:	0 °C to 55 °C (32°F to 131°F)

SIZE / WEIGHT

Max size (mm/in.):	198 x 45,50 x 134 / 7.8 x 1.8 x 5.27
Weight (kg/lb):	1,36 / 2.99