



ideato,  
progettato,  
ingegnerizzato  
in Italia

## AP5.9 bit

5 channel amplifier featuring  
9 channel built-in processor.

AP5.9 bit amplifier is ideal to realize a two way front full active plus subwoofer system using the fifth mono channel with 270 W @ 2 Ω. The built-in processor, that this amplifier shares with the AP8.9 bit, provides the ability to assign the pre-outs to the AP4 D amplifier, creating a very powerful system in a small space thanks to the "rack mounting" system.



bit Drive

Full DA  
24 bit/192 kHz

### POWER SUPPLY

Voltage:	7.5 ÷ 15 VDC
Idling current:	1.5 A
Switched off:	<1.4 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% Power (Ch 1-2-3-4):	0.08 %
Distortion - THD @ 1 kHz, 4 Ω, 90% Power (Ch 5):	0.1 %
Bandwidth (-3 dB, 2 V RMS, 4Ω):	10 ÷ 20k Hz / 10 ÷ 500Hz SUB
S/N ratio @ A weighted, 2V, Max Power:	95 dBA
Damping factor @ 1 kHz, 2 V RMS, 4Ω:	>70
Input sensitivity:	2 ÷ 15 V RMS
Input impedance:	15k Ω
LOAD IMPEDANCE (MIN):	
• Ch: 1-2-3-4-5	2Ω
MAX POWER	520 W
OUTPUT POWER (RMS) @ 12.0 ÷ 14.4 VDC, 1% THD:	
• 5 Ch @ 4Ω:	20 W x 2 + 50 W x 2 + 150 W x 1
• 5 Ch @ 2Ω:	40 W x 2 + 90 W x 2 + 270 W x 1
OUTPUT POWER (RMS) @ 14.4 VDC, 10% THD:	
• 5 Ch @ 4Ω:	25 W x 2 + 60 W x 2 + 190 W x 1
• 5 Ch @ 2Ω:	50 W x 2 + 115 W x 2 + 350 W x 1

### CEA SPECIFICATIONS



Output power @ 4Ω, <1% THD+N, 14.4 V: 20 W x 2 + 50 W x 2 + 150 W x 1

SN ratio (ref. 1 W output): 80 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

### CONTROL CONNECTIONS

From / to personal computer	1 x micro USB-B
To Audison Electronics	DRC controls
ASP	For module: Automatic Speaker Presence (ASP)
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.):	198x45,50 x 134/7.8x1.8x5.27
Weight (kg/lb):	1.5 / 3.3