ideato, progettato, ingegnerizzato in Italia

AP8.9 bit

8 channel amplifier featuring
9 channel built-in processor.

The AP8.9 bit amplifier was designed by Audison R&D Department to achieve maximum sound quality in OEM Integration applications. The powerful management software proves the ability to acquire the bit Drive presets which the Audison team fine-tuned specifically for your car. Thanks to the innovative power supply stage, a power of 520 W total can be achieved in an extremely compact case.
The non-amplifiable ninth channel can be used to drive a subwoofer via the mono AP1 D amplifier.

POWER SUPPLY

Voltage:	7.5 ÷ 15 VDC
Idling current:	1.5 A
Switched off:	<0.04 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 (1kHz @ 4Ω, 90% Power):	0.05 %
Bandwidth (-3 dB, 2 V RMS, 4Ω):	10 ÷ 22k Hz
S/N ratio @ A weighted, 1V, 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):	
• 8 Ch:	2Ω
• 4 Ch - Bridge (1-2) (3-4) (5-6) (7-8):	4Ω
***OUTPUT POWER (RMS) @ 12.0 ÷ 14.4 VDC, 1% THD*:**	
• 8 Ch @ 4Ω:	35 W x 8
• 8 Ch @ 2Ω:	65 W x 8
• 4 Ch - (Bridge 1/2; 3/4; 5/6; 7/8) @ 4Ω:	130 W x 4
***OUTPUT POWER (RMS) @ 14.4 VDC, 10% THD*:**	
• 8 Ch @ 4Ω:	45 W x 8
• 8 Ch @ 2Ω:	85 W x 8
• 4 Ch - (Bridge 1/2; 3/4; 5/6; 7/8) @ 4Ω:	170 W x 4

CEA SPECIFICATIONS

Output power @ 4Ω, ⩽1% THD+N, 14.4 V:	35 W x 8 Ch
SN ratio (ref. 1 W output):	85 dBA

SIGNAL CONNECTIONS

Sub Out (RCA Pre-Out)	0 ÷ 4 V RMS Max
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 (DRC select.)
• Optical IN (max 96 kHz/24 bit)	S/P-DIF PCM 96 kHz/24 bit max

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	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):	1.5 / 3.3