

audison



FORZA

prima

PRODUCT NEWS

Elettromedia November 2018



audison.com



ideato,
progettato,
costruito
in Italia

Prima

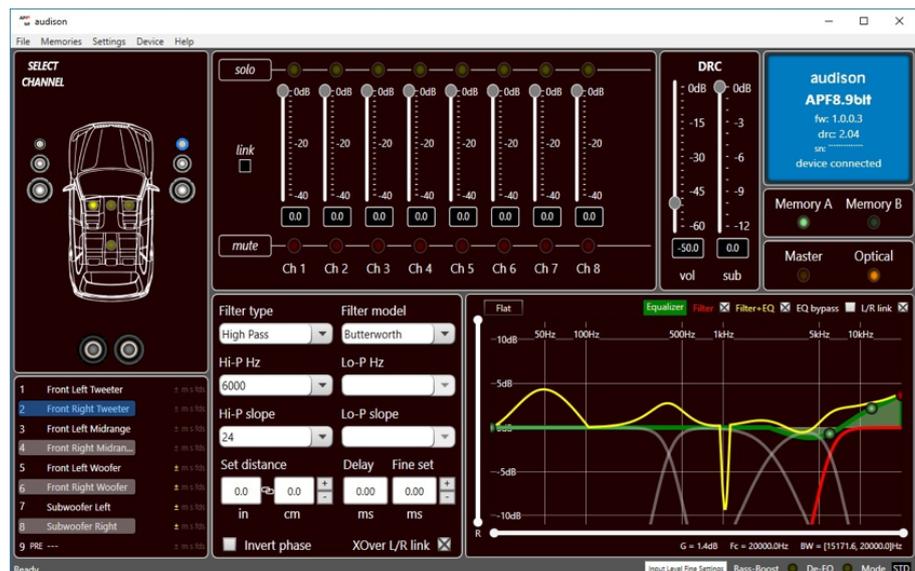
FORZA



We are proud to introduce the **AP F8.9 bit**, created for the most demanding integration projects, where high power is required along with the flexibility of the nine-channel DSP. The word "Forza", meaning "Power" in Italian, well describes the **8 x 85 W RMS and 4 x 260 in bridge mode (RMS @ 4Ω)**, with an optimal power to size ratio.



The integrated processor is equipped with a dedicated software (downloadable from www.audison.eu) and 7 pre-configured presets for a **Plug & Sound** experience.



All specifications subject to change without notice.18.A

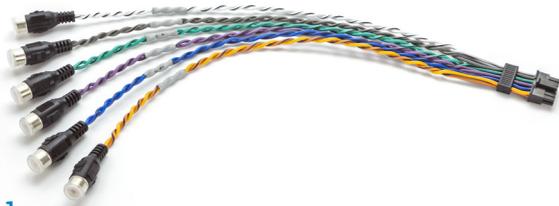
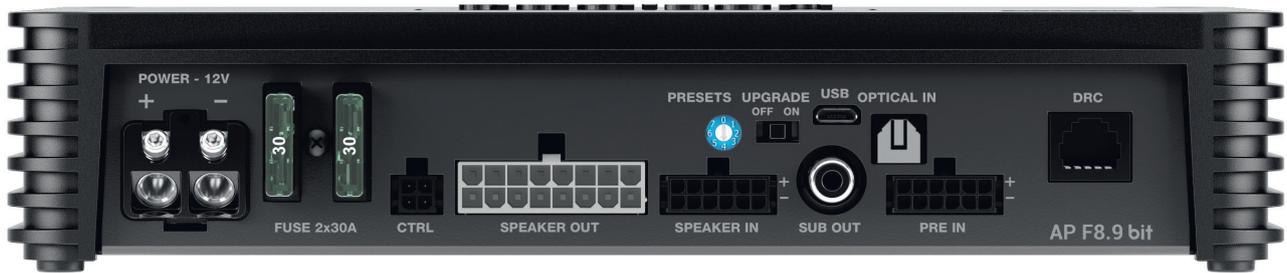


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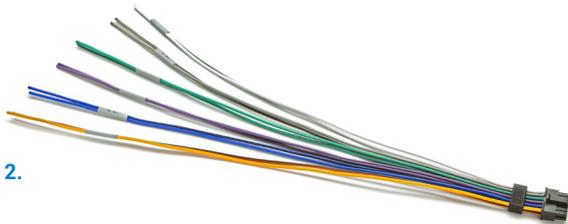


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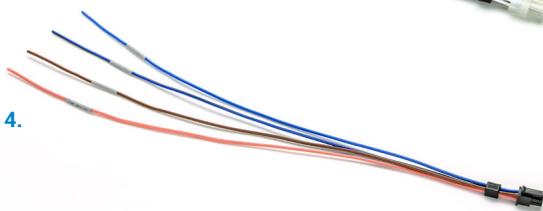
1.



2.



3.



4.

The AP F8.9 bit includes a set of four high quality cables supplied with a protective printed strip placed upstream of the Molex connectors to increase the resistance to torsion:

1. One six stereo RCAs interconnection for after-market sources with PRE-OUT outputs
2. One featuring 6 pairs of labeled cables for the connection to high level output OEM sources
3. One including eight pairs of labeled cables to connect the speakers to the amplifier
4. One Control interconnection to control memory selection and remote power-on.

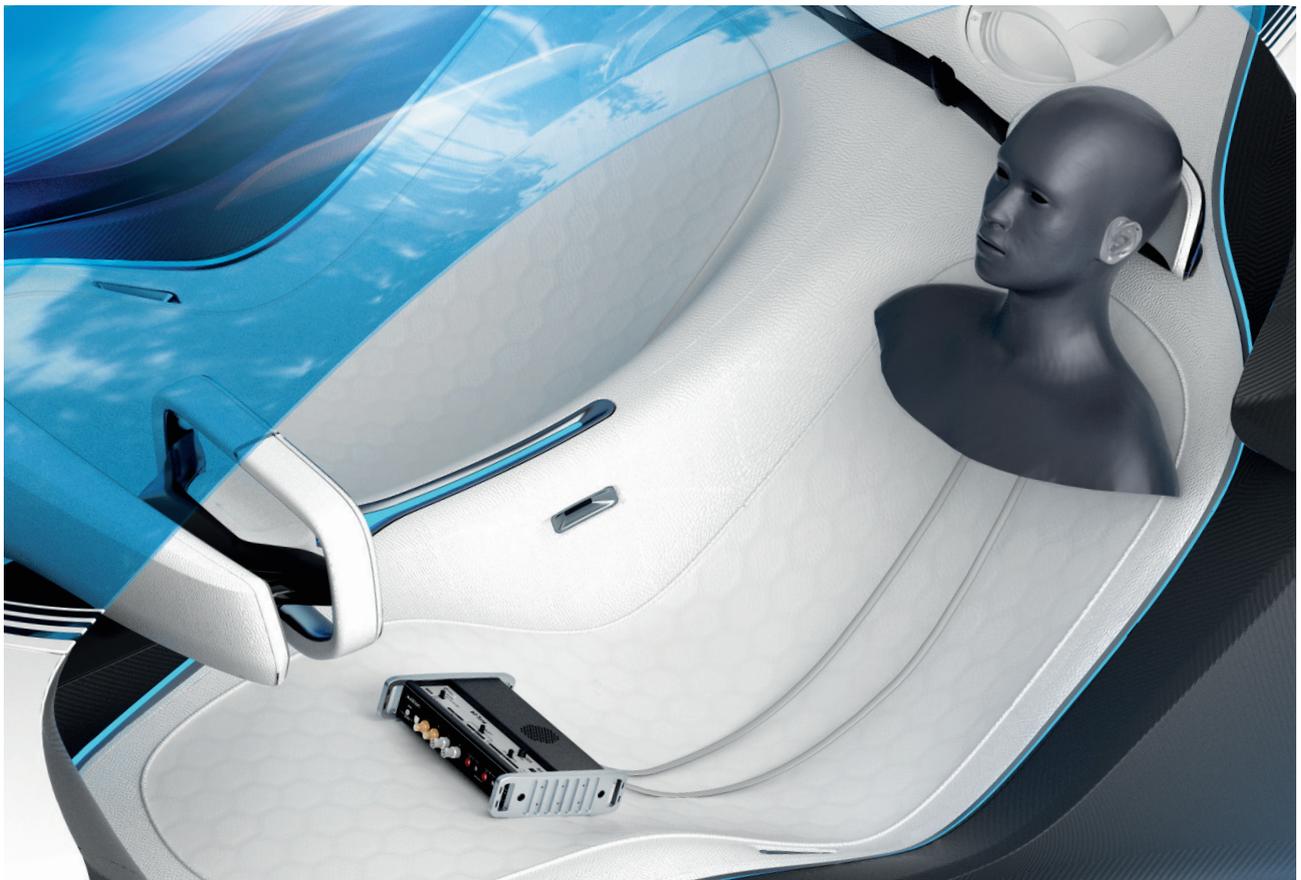


Thanks to the **built-in Audison USS technology (Universal Speakers Simulator)**, AP F8.9 bit can also be correctly connected to head-units with "speaker load detection" function that monitors the presence of a low-impedance load to enable the audio outputs.

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PRIMA AP bit and AUDISON bit Tune



Audison bit Tune is the **auto-calibration system for AP bit processors (AP F8.9 bit, AP 8.9 bit, AP 5.9 bit, AP 4.9 bit)** for the setup of basic parameters (time alignment, equalization, levels, etc.), ensuring a **correct acoustic result in a very short time**.

The bit Tune automatic routine also includes the diagnosis of common connection "errors" (channels/phase inversion, no signal from a channel/cable, etc.), to set the specialist free from his "routine" work and allow him to focus on the art of "fine-tuning" while listening.



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INTEGRATION WITH OEM INFOTAINMENT SYSTEMS BASED ON CAN-BUS

A typical architecture for premium sound systems, particularly common in North America, is based on a OEM central unit featuring a pre-distributed two-channel audio output with a fixed volume, with no equalization and connected to an external amplifier managed via a digital control bus (CAN-BUS).

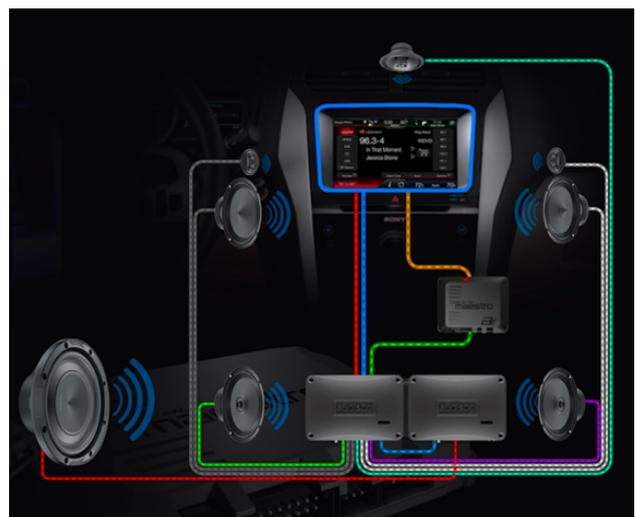
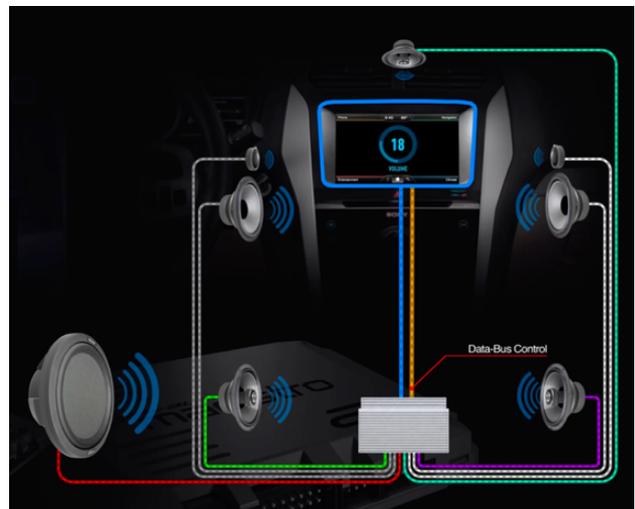
All adjustments (volume, fader, balance, equalization, source selection) are sent via CAN-BUS and operated within the OEM amplifier. The same operating structure applies for mono service sources such as navigation, telephone, anti-collision alerts.



Thanks to the Maestro AR interface you can directly connect Prima Forza APF8.9 bit, AP8.9 bit, AP5.9 bit, AP4.9 bit to the head unit, using a dedicated T-Harness, permanently removing the OEM amplifier from the system. The infotainment two-channel stereo audio outputs and mono sources are connected directly to the DSP input.

The Maestro AR interface interprets the control signals, originating from the head unit on CAN-BUS, and manages their correct integration directly acting on the processor, connected through the DRC socket. Volume / Balance / Fader controls etc. and the automatic selection of the various infotainment mono sources, such as navigation and parking sensors, are sent directly to the DSP bit which will operate these functions. The Audison bit processor auxiliary inputs can also be selected using the OEM source original controls, allowing perfect integration with the factory system. This communication protocol is called iDataLink and is used to develop and maintain compatibility with the car and infotainment models, obtaining the following additional advantages:

- automatic adjustment of the AP bit processors input sensitivity level
- specific AP bit functions managed by OEM source tone controls
- use of the bass control as the subwoofer volume
- selection of AP bit presets using the OEM source controls



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AP F8.9 bit

High-power 8 channels amplifier with
9-channel built-in processor

The AP F8.9 bit amplifier, delivering **8 * 85 W or 4 * 260 W** (RMS @ 4Ω), is dedicated to OEM Integration where high power is required. The integrated nine-channel DSP includes a guided setup routine to set up OEM sources input level and de-equalization. The AP F8.9 bit features **7 pre-configured DSP presets** selectable via rotary switch for a **Plug & Sound experience**. The ninth channel pre-out is perfect to drive a mono amplifier (AP1 D) or an active subwoofer (APBX 10 AS).



POWER SUPPLY	
Power supply voltage / fuse	11 ÷ 15 VDC / 2 x 30A
Operating power supply voltage	6.5V ÷ 17V
Idling current	1.6 A
Switched off without DRC	1.7mA
Switched off with DRC	5 mA
Consumption @ 14.4 VDC, 2Ω, Max Musical Power	55 A
Remote IN	6 ÷ 15 VDC (1 mA)
Remote OUT	4 ÷ 15 VDC (150 mA)
ART - Automatic Remote Turn on/off from OUTPUT BTL speakers (Selectable)	2 ÷ 7 VDC
AST - Automatic Signal Turn on/off (Selectable)	Speaker-In
AMPLIFIER STAGE	
Distortion - THD @ 1 kHz, 4Ω, 70% Rated Power	0,06%
Damping factor @ 1 kHz, 4Ω, 2 VRMS	> 110
Bandwidth @ -1.5 dB	10Hz ÷ 22kHz
S/N ratio (A weighted @ 1 V Input) Master Input	100 dBA
S/N ratio (A weighted @ 1 V Input) Optical Input	105 dBA
Input sensitivity Pre-In	0.6 ÷ 6 VRMS
Input sensitivity Speaker-In	2.2 ÷ 22 VRMS
Minimum load impedance	8Ch: 2Ω 4Ch - (Bridge 1/2; 3/4; 5/6; 7/8) : 4Ω
OUTPUT POWER (RMS) @14.4 VDC, 1% THD:	
8Ch @ 4Ω	85 W x 8
8Ch @ 2Ω	130 W x 8
4Ch (Bridge 1/2; 3/4; 5/6; 7/8) @ 4Ω	260 W x 4
INPUTS / OUTPUTS	
Pre-In Inputs	Ch1 ÷ Ch6 customizable
Speaker-In Inputs	Ch1 ÷ Ch6 customizable
Digital IN	1 x Optical S/PDIF; Max 192 kHz / 24 bit
Sub Out (RCA Pre Out)	4 VRMS

DIGITAL SIGNAL PROCESSOR	
Filter type	Full / Hi pass / Low Pass / Band Pass
Filter mode and slope	Linkwitz @ 12/24 dB Butterworth @ 6/12/18/24 dB
Crossover frequency	68 steps @ 20 ÷ 20k Hz
Phase control	0° / 180°
Bass Boost	N.1 Adjustable Parametric Pole
Analog Input Equalizer (20 ÷ 20k Hz)	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 inches
Time Alignment Delay	0 ÷ 15 ms
Time Alignment Step	0.08 ms; 2.8 cm / 1.1 inch
Time Alignment Fine SET	0.02 ms; 0.7 cm / 0.27 inch
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
To Audison DRC AB / MP	1 x AC Link
Optical select	Optical select wire control +12 V enable
Master enable	Master enable wire control +12 V enable
GENERAL REQUIREMENTS	
PC connections	Micro USB 1.1 / 2.0 / 3.0 Compatible
Software/ PC requirements	Microsoft Windows (32/64 bit): Vista, Windows 7, Windows 8, Windows 10
Video resolution with screen resize	min. 1024 x 600
Ambient operating temperature range	0 °C to 55 °C (32 °F to 131 °F)
SIZE	
Max size W x H x D (mm/inch)	238 x 49.5 x 155 / 9.37 x 1.95 x 6.1
Weight (kg/lbs)	1.98 / 4.36



elettromedia

Elettromedia, an Italian company, is a leader within the world-wide car Hi-Fi market. Born in 1987 in Potenza Picena by a group of friends who shared the same passion for in-car high fidelity, throughout the past years Elettromedia has been walking the path of excellence: its products are distributed in more than 50 countries; the company has received many awards and acknowledgements from the most authoritative leaders within the car audio industry; it also can boast reviews of more than 3000 pages published in 30 different languages (visit: elettromedia.com/press_area.asp).

The Elettromedia brands are Audison, Hertz, Connection and AZaudiocomp. Through a co-branding strategy, the company offers all of the components required for a complete, top-level car audio system.



Elettromedia
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AWARDS





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