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FORZA

AF M8.14 bit

DSP Amplifier 1120 W 14 CH DSP + 8 x 140 W @ 2 ohm
D-class Fully Bridgeable

AF M8.14 bit boasts eight high-fidelity amplified channels 90W x 8 @4Ohm, 140W x 8 @2Ohm* with the audiophile sound of the latest generation Audison D-Class technology. Higher switching frequencies, steeper filtering, and higher-tolerance components deliver sound above and beyond the expectation of Class D – in an amazingly compact package! This is combined with native DSP working at 24 bit/96 kHz, extending the audio band up to 40 kHz and earning the coveted High-Resolution certification. Bridging channel pairs results in 280W x 4 @4Ohm*, guaranteeing flexible and powerful performance. Support for the Audison B-CON's Absolute Volume function guarantees maximum bit depth, even with wireless connections!
*Output Continuous Power (RMS) @14.4 VDC, 1% THD, all channels driven.



NEXT-GENERATION TUNING CAPABILITIES FOR MAXIMUM CONTROL
Audison's completely-new bit Drive PC software can analyze, route, and correct the signal in completely new ways – now you can measure, mix, and finally tune the sound with one powerful tool! The new Graphical User Interface simplifies every control and function, integrating acoustic measurement, and ensuring efficient tuning and great sound! The Acoustic RTA is integrated into the equalizer graph, and is compatible with your USB microphone or sound card. The Final EQ function allows final equalization without damaging the delicate left/right frequency relationships. The six processed preamp outputs are in addition to the eight amplified channels, allowing Forza's DSP section to manage a larger system easily.

ADVANCED OEM INTEGRATION CAPABILITIES
Forza's eight analog inputs, plus an optical Toslink digital input, support total connectivity even with the most complex OEM systems. If more analog inputs are required, the optional F4IN expansion card adds four additional analog input channels! If a Coaxial SPDIF or a second Toslink SPDIF input is needed, the optional F2O expansion card can be used. Audison's classic de-EQ process is joined by de-Time and de-Phase capabilities, enabling sound restoration in nearly every OEM system., The electrical signal analysis ensures proper integration and correction for each input and output channel. The built-in universal speaker simulation technology (USS) yields maximum compatibility with any OEM Source, without muting or instability.

AF M8.14 bit includes a set of six high-quality cables supplied with a protective printed strip placed upstream of the Molex connectors to increase the resistance to torsion.

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AMPLIFIER TECH DATA

Channels	8

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audison

Class	D-Class
Power supply voltage / fuse	11 ÷ 15 VDC / 2 x 30A
Operating power supply voltage	6.5 ÷ 17.5 VDC
Idling current	1.5 A
Standby Current Draw	1.7 mA
Consumption @ 14.4 VDC, 2?, Max Musical Power	55 A
Remote IN	4 ÷15 VDC (1 mA)
Remote OUT	6.5 ÷15 VDC (150 mA)
ART - Automatic Remote Turn on/ off from OUTPUT BTL speakers	1.5 VDC
Efficiency Rated Power	82%

AMPLIFIER STAGE

Distortion - THD @ 1 kHz, 4?, 70% Rated Power	0.05%
Bandwidth @ -1.5 dB	10 Hz ÷ 42 kHz
Damping factor @ 1 kHz, 4?, 2 VRMS	100
S/N ratio (A weighted @ 1 V Input) Master Input	98.5 dBA
S/N ratio (A weighted @ 1 V Input) Optical Input	105
Total Power RMS	1120 W
Minimum load impedance	8Ch: 2Ohm | 4Ch – (Bridge 1/2; 3/4; 5/6; 7/8): 4Ohm
Output Continuous Power (RMS) @14.4 VDC, 1% THD	• 8 Ch @ 4Ohm: 90 W x 8 • 8 Ch @ 2Ohm: 140 W x 8 • 4Ch (Bridge 1/2; 3/4; 5/6; 7/8) @ 4Ohm: 280 W x 4
Adjustable Crossover	Yes

CEA SPECIFICATIONS

Output power @ 4?, 1% THD+N, 14.4 V	Output power @ 4Ohm, 1% THD+N, 14.4 V: 90 W x 8 SN ratio (ref. 1 W output): 80 dB

INPUTS / OUTPUTS

Pre-In Inputs	0.6 ÷ 6 VRMS (15 kOhm Imp.)
Digital Input	Yes
Pre Outputs	6
Hi Level Inputs	8
Low Level Inputs	8
Speaker-In Inputs	2.2 ÷ 22 VRMS (5 Ohm Imp.)
Digital IN	1 x Optical S/PDIF; Max 192 kHz / 24 bit + 1 x Optical/Coaxial S/PDIF with optional F2O card
Sub Out (RCA Pre Out)	5V RMS

DIGITAL SIGNAL PROCESSOR

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Audio DSP Converter	Analog Devices ADAU1467 automotive qualified audio processor. Processing @ 96 kHz.Analog Devices 3 x ADAU1978 (4ch) and ADAU1966A (16ch) A/D and D/A converters (24 bit/192 kHz) providing very high level performance
Filter type	Full / High-Pass / Low-Pass / Band-Pass
Filter mode and slope	Linkwitz-Riley @ 12/24/36/48 dB/Oct. Butterworth @ 6/12/18/24/30/36/42/48 dB/Oct. Bessel @ 6/12/18/24/30/36/42/48 dB/Oct. Chebyshev @ 6/12/18/24/30/36/42/48 dB/Oct. QLP @ 6 dB/Oct.
Crossover frequency	20 Hz ÷ 20 kHz
Phase control	0° / 180°, All-Pass filters
Analog Input Equalizer (20 ÷ 20k Hz)	12 Biquad + Delay
Output Equalizer	Parametric/Graphic Biquad: 15 poles, 20 Hz ÷ 20 kHz
Time Alignment Distance	0 ÷ 510 cm / 0 ÷ 200.8 inches
Time Alignment Delay	0 ÷ 15 ms
Input Output Real Time Audio Monitor	RTA

CONTROL CONNECTIONS

DRC Port	Input for DRCC remote control (Optional)
ADC Port	Manage other Audison devices that support this standard
1 Wire	Customizable functions (+ 12 V activated)
2 Wire	Customizable functions (+ 12 V activated)

GENERAL REQUIREMENTS

PC connections	Micro USB 1.1 / 2.0 / 3.0 Compatible
Software/PC requirements	Windows 10, Windows 11 (min. res. 1024 x 768
Ambient operating temperature range	0 °C to 55 °C (32 °F to 131 °F)
Size	240 x 47 x 156 / 9.44 x 1.85 x 6.14
Weight	2.04 kg

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