

FORZA

AF M12.14 bit

DSP Amplifier 1080 W 14 CH DSP + 12 x 90 W @ 2 ohm
D-class Fully Bridgeable

AF M12.14 bit boasts twelve high-fidelity amplified channels 60 x 12 @40hm*, 90W x 12 @20hm* 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 180 x 6 @40hm*, 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.



AMPLIFIER TECH DATA

Channels	12
Class	D-Class
Efficiency	80%
Power supply voltage / fuse	11 ÷ 15 VDC / 2 x 30A
Operating power supply voltage	6.5 ÷ 17.5 VDC
Idling current	1.68 A
Standby Current Draw	1.7 mA
Consumption @ 14.4 VDC, 2?, Max Musical Power	45 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	80%

AMPLIFIER STAGE

Distortion - THD @ 1 kHz, 4?, 70% Rated Power	0.03%
Bandwidth @ -1.5 dB	10 Hz ÷ 42 kHz
Damping factor @ 1 kHz, 4?, 2 VRMS	80
S/N ratio (A weighted @ 1 V Input) Master Input	98 dBA
S/N ratio (A weighted @ 1 V Input) Optical Input	105
Total Power RMS	1080 W

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Minimum load impedance	12Ch: 20hm 6Ch – (Bridge 1/2; 3/4; 5/6; 7/8; 9/10; 11/12): 40hm
Output Continuous Power (RMS) @14.4 VDC, 1% THD	12 Ch @ 40hm: 60 W x 12 12 Ch @ 20hm: 90 W x 12 6 Ch (Bridge 1/2; 3/4; 5/6; 7/8; 9/10; 11/12) @ 40hm: 180 W x 6
Adjustable Crossover	Yes

CEA SPECIFICATIONS

Output power @ 4?, 1% THD+N, 14.4 V	45 W
SN ratio (ref. 1W output)	75.5 dB

INPUTS / OUTPUTS

Pre-In Inputs	0.6 ÷ 6 VRMS (15 kOhm Imp.)
Digital Input	Yes
Pre Outputs	2
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 F20 card
Sub Out (RCA Pre Out)	5V RMS

DIGITAL SIGNAL PROCESSOR

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

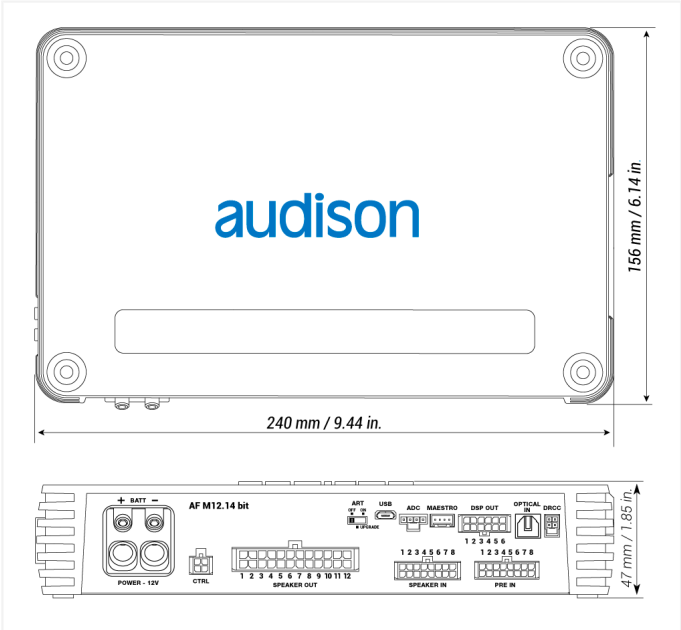
DRC Port	Input for DRC AC remote control (Optional)
ADC Port	Manage other Audison devices that support this standard

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

DIMENSIONS

	
Dimension A	240 mm
Dimension B	156 mm
Dimension C	47 mm

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