



DATA SHEET

4-Channel DSP and Dante™ Digital Power Amplifier D-4180/4350/4600/412X



Product Overview

The new D Series power amplifier is a remarkable fusion of versatility and innovation. With its 4-channel design, it seamlessly integrates Dante™ network audio transmission and a real-time digital-analog redundant backup function, ensuring smooth transitions between digital and analog inputs. Equipped with a powerful 4-channel DSP, it empowers users with real-time remote monitoring and instant adjustments to critical elements like the compressor, limiter, noise gate, parametric equalizer, and matrix routing.

This amplifier is packed with features - including adjustable delay time, an intuitive software interface, and user-friendly settings - that enhance the operational experience. Its multiple connection methods make it highly configurable and expandable, perfectly suited for any environment that seeks excellence.

Features

- Dante™ Network Audio Transmission
- Class D amplifier for efficient sound
- Fourth generation SHARC® DSP chip
- Connectivity: USB, TCP/IP, RS485, RS232
- 4.3-inch IPS capacitive touchscreen
- Manage multiple devices at once
- Remote monitoring of amplifier status
- Easy switching between bridge and matrix modes
- FIR-EQ generation for sound precision
- Supports 8Ω, 4Ω, 2Ω; bridging for 8Ω and 4Ω
- Operates at 180-264V; includes power factor correction (PFC)²

Application

- Performing Arts Centre
- Playhouse Theatre
- Athletic facilities
- Convention Center
- Hall
- Multipurpose Hall

D-4180/4350/4600/412X

Model	D-4180	D-4350	D-4600	D-412X
Maximum output power per channel at 8Ω:	180 W	350 W	600 W	1200 W
Maximum output power per channel at 4Ω:	360 W	700 W	1100 W	1900 W
Maximum output power per channel at 2Ω:	540 W	1050 W	1900 W	2500 W
Dual Channel Bridged Output Power at 8Ω:	450 W	875 W	2300 W	3200 W
Dual Channel Bridged Output Power at 4Ω:	630 W	1225 W	3800 W	4200 W
Output Channel:	4 channels / connect 2 channels			
Analog input channels:	4			
Dante Input Interfaces:	4			
Output Interface:	Speakon NL4			
Analog input interface :	XLR			
DSP sampling frequency and precision:	96 kHz / 24-bit			
DSP System Latency:	1.045 ms			2.074 ms
Input sensitivity:	0-6-12-17 dBu			0-6-12-18-20 dBu
Delay Module:	40 ms			2000 ms
Damping coefficient:	> 600			
Crosstalk:	> 70 dB			
Output Category:	Class-D			
Screen dimensions:	4.3 in			
Product dimensions (height*width*depth):	88*483*358 mm		88*483*451.8 mm	
net weight:	8 kg		16 kg	

*aiwia reserves the final right of interpretation for this information. The technical parameters of related products are subject to change without prior notice.

