

ascendo

ELEVATE YOUR SOUND

DSP4-6602



DATA SHEET

AUDIO

Table 1. **Inputs**

Channels	4
Signal-to-Noise Ratio	≥ 105 dB (Default Gain, A-weighted, 20 Hz – 20 kHz, 8 Ω)
Nominal sensitivity for maximum output level (balanced)	2 V (Default Gain, 31 dB)
ADC Fullscale	8.7 V RMS (+21 dBu) (Default Gain)
Analog Input Impedance	20 kΩ (Balanced), 10 kΩ (Unbalanced)

Table 1. **Outputs**

Output Power	8 Ω/Stereo	4 Ω/Stereo	2 Ω/Stereo	8 Ω/Bridge	4 Ω/Bridge
*EIAJ Test Standard 1 kHz 1 % THD	650 W	1150 W	1650 W	2 x 2200 W	2 x 3330 W
Max Output Voltage	102 V peak / 72.1 V RMS				
Frequency Response	Typical: ±1.0 dB (10% Rated Power, 5 Hz – 20 kHz, 8 Ω)				
Protection	Under Voltage, DC, Over Temperature				
Damping factor	≥ 1000 (8 Ω, 20 Hz – 200 Hz)				
End stages	Class D				
Limiter	Over Temperature, Over Load, Short				
Total Harmonic Distortion	Typical: 0.05% (THD+N, 10% Rated Power, 8 Ω)				
Crosstalk 20Hz – 1kHz	≥ 90 dB (20 Hz – 1 kHz, Below Rated Power, 8 Ω)				
Voltage Gain	25 dB (4 V) – 43 dB (0.5 V); Default: 31 dB (2 V)				

AC MAINS POWER

Power Supply	Switching power supply (SMPS) with active PFC and soft-switching
Operating Voltage (50Hz-60Hz)	100 – 240 VAC (±10%)
Suggested Circuit Breaker	B16

DSP

Inputs (Channels)	4 x 4 audio routing / mixing matrix (-80 dB to +18 dB)
Level Control	Volume, Mute, Polarity
User-Strip Filter	8-section input parametric EQ, 8-section output parametric EQ, high-/low-pass filter
FIR EQ section (4x)	512 taps (and below); FIR data import/export
Delay	Input delay 100 ms, output delay 20 ms (step 0.01 ms); source delay matching 0–10 ms

CONNECTORS



Figure 1. DSP4-6602 connectors

Control input connectors	Dual RJ45 (Ethernet, built-in switch, UDP)
Audio signal input connectors	XLR (balanced analog in); RJ45 (network audio, Dante on Dante-enabled models)
12V Trigger In	Selectable trigger logic — 12V mode: +12 VDC = On, 0 V = Standby; 0V mode: reversed; TRIGGER IN / LINK for daisy-chaining
AC mains	Neutrik POWERCON

THERMAL

Thermal dissipation	Forced-air cooling, front-to-rear airflow
Enviromental operating temperature (Cooling)	0 – 40°C

USER INTERFACES

Hardware	Per-channel status LEDs (Active, Signal, Limit, Protect); display screen
Software	Webpage, RESTful-API

DIMENSIONS / WEIGHT

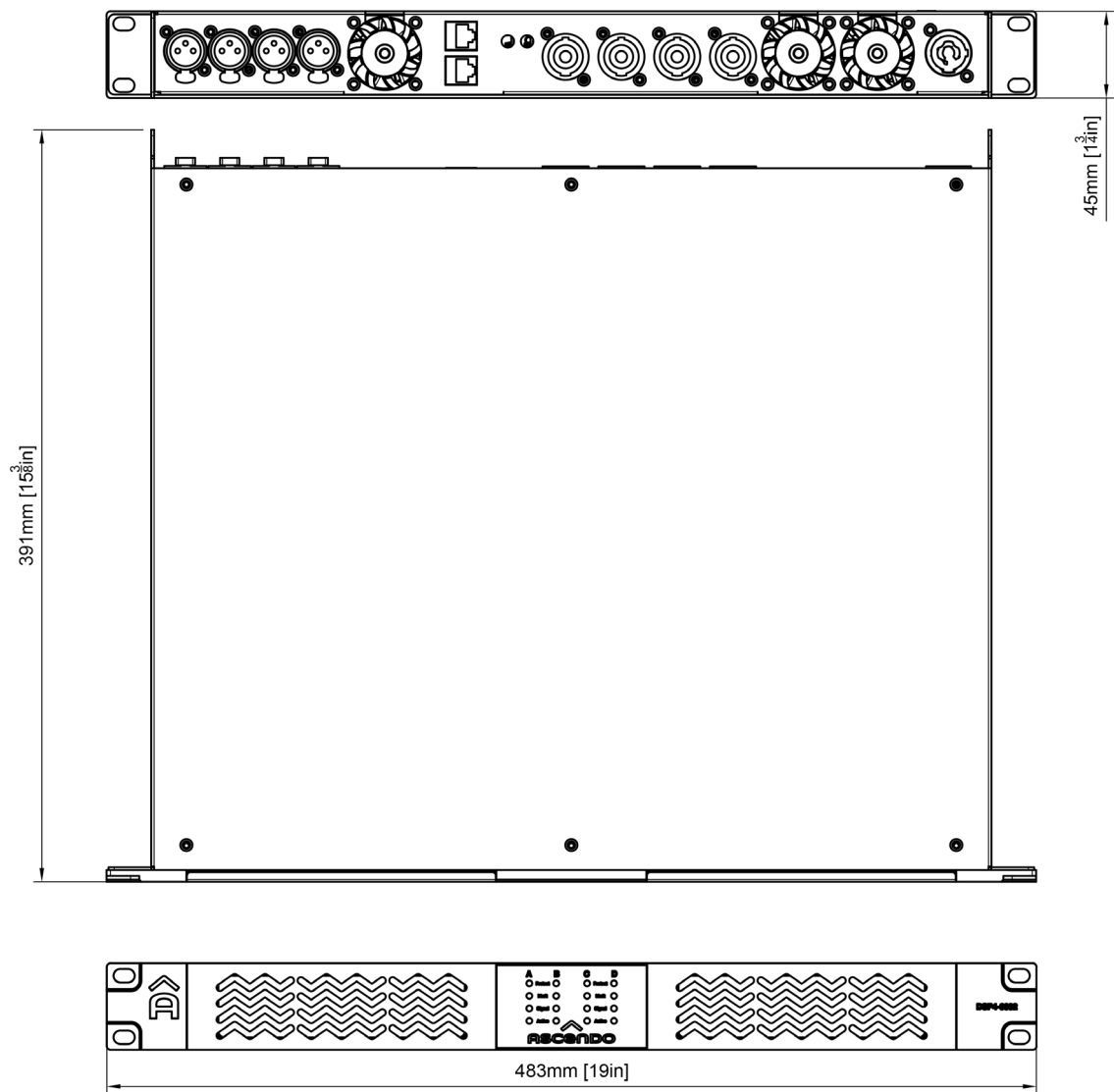


Figure 2. DSP4-6602 dimensions

Dimensions (W/H/D) mm	483 45 376
Dimensions (W/H/D) Inch	19 1 3/4 14 13/16
Packing Dimensions W/H/D) mm	520 140 580
Packing Dimensions (W/H/D) inch	20 1/2 5 1/2 22 13/16
Weight	22.49 lbs 10.2 kg
Gross Weight	26.23 lbs 11.9 kg



CE



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