

D-Series

2025



®
aura audio

D-Series

D1

D1 AMPLIFIERS with “ASP”

D1 amplifiers are Class-D High Efficiency Power Amplifiers with fixed Loudspeaker Management included. D1-series features latest technology in Class-D amplifier design including extremely high fidelity sound with frequency-independent harmonic distortion performance, high efficiency design and very low total weight. Speaker preset filters are done in analog domain (ASP = Analog Signal Processing) resulting in zero latency, wide bandwidth and natural transparency.

All D1 amplifiers are fitted with user variable speaker specific presets for specific loudspeaker including high-pass and low-pass filters, parametric EQ and very transparent optical limiter circuit. Filters can also be bypassed if additional DSP is used such as aux outputs of D80DSP.

All models are powered by auto mains voltage sensing switch-mode power supply with over current and over voltage protection system and optimized cooling system.

FEATURES

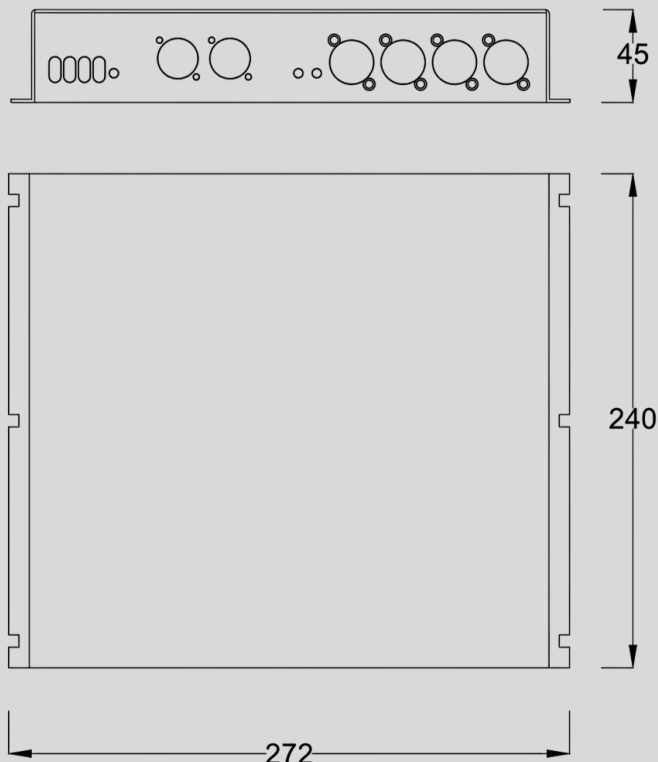
- Analog signal path with optical limiter
- Class-D amplifiers with switch-mode power supply
- Preconfigured loudspeaker management for i-series, F-series and subs
- 90% total efficiency

SPECIFICATIONS

- D1.21 2 x 125W/4 ohms (250W/8 ohms bridged), 2 x ASP
- D1.22 2 x 250W/4 ohms (500W/8 ohms bridged), 2 x ASP
- D1.31 3 x 100W/4 ohms (no bridge mode), 2 x ASP
- D1.32 2 x 200W/4 ohms + 1 x 100W/4 ohms (no bridge mode), 2 x ASP
- Frequency response: 15Hz-30kHz -1dB
- THD+N at -3dB <0.05% (50Hz - 20kHz)
- THD+N at +10dB limit <0.5% (1kHz)
- Input connectors: 2 x XLR
- Output connectors: 2-3 x Speakon NL4
- Mains connector: Powercon

DIMENSIONS

- 272mm x 45mm x 240mm
- Weight: 3kg



D1 MODELS



D-Series

D2



D2 AMPLIFIERS with “ASP”

D2 amplifiers are Class-D High Efficiency Power Amplifiers with Loudspeaker Management included. D2-series features latest technology in Class-D amplifier design including extremely high fidelity sound with frequency-independent harmonic distortion performance, high efficiency design and very low total weight. Speaker preset filters are done in analog domain (ASP = Analog Signal Processing) resulting in zero latency, wide bandwidth and natural transparency.

All D2 amplifiers are fitted with user variable speaker specific presets for specific loudspeaker including high-pass and low-pass filters, parametric EQ and very transparent optical limiter circuit. Filters can also be bypassed if additional DSP is used such as aux outputs of D80DSP.

All models are powered by auto mains voltage sensing switch-mode power supply with over current and over voltage protection system and optimized low noise cooling system.

FEATURES

High-end analog signal path with optical dynamics processing
High fidelity class-D amplifier
Switch-mode power supply
Extremely low, frequency-independent THD performance
ASP loudspeaker management
90% total efficiency

DIMENSIONS:(mm)

483mm(19") x 44mm(2u) x 400mm
Weight: 5/6kg
Shipping box: 540 x 85 x 510 (mm)
Shipping weight: 6/7kg

SPECIFICATIONS

D2.41 Output Power (4) 125W/4ohms
D2.42 Output Power (4) 250W/4ohms
D2.23 Output Power (2) 250W/8ohms
D2.25 Output Power (2) 500W/8ohms
Frequency response: 15Hz-30kHz -1dB
THD+N at -3dB <0.05% (20Hz - 20kHz)
THD+N at +10dB limit <0.5% (1kHz)
Input connectors: 2 / 4 XLR
Output connectors: 2 / 4 Speakon NL4
Input Link 1&2 or 3&4: bi-amp and parallel options
Mains connector: Powercon



D-Series

D80DSP



D80DSP is a combination of signal processing and amplifier channels with aux DSP outputs.

Easy access control via front panel is combined with PC and iPad remote controls and wall panel for installation use.

High fidelity, high efficiency class-D power amplifier stages are powered by a switch-mode power supply.

The build-in speaker preset library for all Aura Audio speaker models with highest definition DSP processing.



Audiocore

Developed by XTA Electronics, AudioCore software gives you instant and intuitive control over all the parameters of D80DSP and D100DSP processing amplifiers.

Click on any unit's function blocks and the parameters for that function are immediately available and adjustable. All parameters can be adjusted via mouse or keyboard. Every aspect of a network of amplifiers can be controlled and monitored wirelessly.

SPECIFICATIONS

Number of amplifier channels: 4

Output Power: (per channel)

8 ohms 1000W

4 ohms 2000W

2.7 ohms 2200W

2 ohms 2000W

Output Power: (bridged)

8 ohms 4000W

4 ohms 4000W

Processing: 24bit (ADC and DAC)

Internal sample rate: 96kHz

System THD: <0.08% (2kW, 1k)

Freq. resp.: 3Hz-30kHz -3dB

Gain; Delay; Polarity; IIR EQ (PEQ, shelving, variQ, all pass, phase, notch, band pass) for each input and output (4 per output, 8 per input)

CONNECTIONS

Input connectors: 4 x XLR (two for AES)

Output connectors: 4 x Speakon

AUX DSP outputs: 4 XLR

Mains connector: PowerCon

Remote Control: USB (front panel)

Rear Panel: RS485 bus, Direct Ethernet, GPIO Port Dante Audio Network (optional) Up to 32 units can be connected into a closed control network

DIMENSIONS:(mm)

Amplifier 2U/88(h) x 482(w) x 428(d)

Weight: 10kg

Shipping weight 12kg

Shipping box: 250 x 610 x 600



D-Series

D100DSP



D100DSP is a combination of signal processing and amplifier channels with aux DSP outputs.

Easy access control via front panel is combined with PC and iPad remote controls and wall panel for installation use.

High fidelity, high efficiency class-D power amplifier stages are powered by a switch-mode power supply.

The build-in speaker preset library for all Aura Audio speaker models with highest definition DSP processing.



DeltaDirect for i-Pad

DeltaDirect connects to your WiFi network and to D80DSP and D100DSP amplifiers via a wireless router. Once connected the app lets you adjust all vital tuning parameters such as gain, delay and EQ for all inputs and outputs. You can also choose signal sources, matrix, mutes and name the channels along grouping of large number of functions.



SPECIFICATIONS

Number of amplifier channels: 4

Output Power: (per channel)

8 ohms 1400W

4 ohms 2700W

2.7 ohms 3700W

Output Power: (bridged)

8 ohms 5400W

4 ohms 7000W

Frequency response: 20Hz-20kHz (+/-0.5dB)

THD+N at -1dB <0.1% (20Hz-20kHz)

Input CMRR: >60dB

Damping Factor: >400 (8 ohms/1kHz)

CONNECTIONS

Input connectors: 4 x XLR (two for AES)

Output connectors: 4 x Speakon

AUX DSP outputs: 4 XLR

Mains connector: PowerCon

Remote Control: USB (front panel)

Rear Panel: RS485 bus, Direct Ethernet, GPIO Port Dante Audio Network (optional) Up to 32 units can be connected into a closed control network

DIMENSIONS:(mm)

483 (19") x 88 (2u) x 428 (mm)

Weight: 10.8kg

SHIPPING BOX 600 x 250 x 610 (mm)

Shipping weight: 12.3kg



D-Series

D80/100/120



D80, D100 and D120 are a range of high power amplifiers to complement D80DSP and D100DSP processing amplifiers.

A rear panel switch allows the amplifier to accept either four channels of analogue audio or pick up four channels of networked audio, via Dante, which is then converted using 24 bit 96kHz DACs.

Connect to a Delta DSP amplifier using a single CAT5 cable to realise a stereo 4 way system with no further external processing required. Switch back to analogue to use as a powerful traditional quad channel amplifier.

Run bridged channel pairs or link adjacent inputs for total flexibility in either analogue or digital mode.

SPECIFICATION (shared)

Input connectors: 4 x XLR (two for AES)
Output connectors: 4 x Speakon (2 / D120)
System THD: <0.08% (2kW, 1k)
Mains connector: PowerCon
Freq. resp.: 3Hz-30kHz -3dB
Rear Panel: Powercon, Speakon and XLR connectors,
Dante Audio Network (optional)
Dimensions: 2U/88(h) x 482(w) x 428(d)
Weight: 10kg (13kg D100/120)
Shipping weight 12kg/15kg
Shipping box: 250 x 610 x 600

SPECIFICATIONS D80

Number of amplifier channels: 4
Output Power: (per channel)
8 ohms 1000W
4 ohms 2000W
2.7 ohms 2200W
2 ohms 2000W
Output Power: (bridged)
8 ohms 4000W
4 ohms 4000W

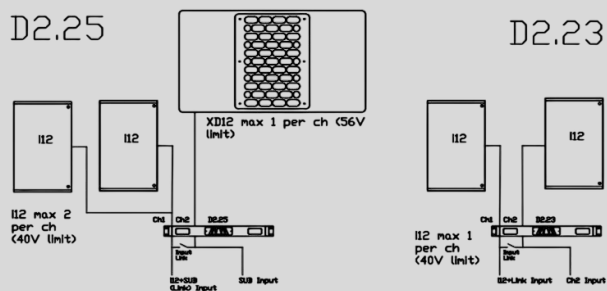
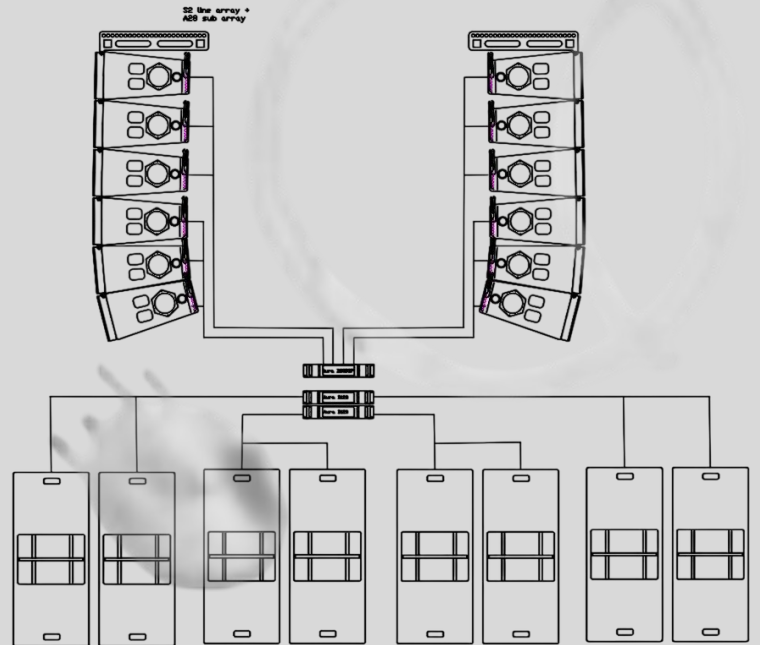
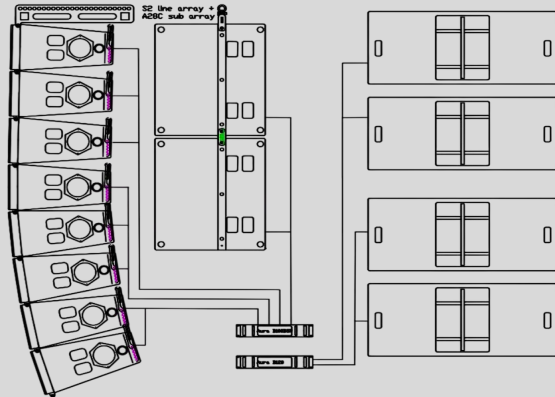
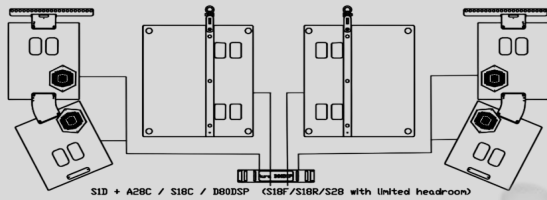
SPECIFICATIONS D100

Number of amplifier channels: 4
Output Power: (per channel)
8 ohms 1400W
4 ohms 2700W
2.7 ohms 3700W
2 ohms 3500W
Output Power: (bridged)
8 ohms 5400W
4 ohms 7000W

SPECIFICATIONS D120

Number of amplifier channels: 2
Output Power: (per channel)
8 ohms 2400W
4 ohms 4600W
2.7 ohms 6250W
2 ohms 6800W





C-series with D2-series

