

D2AUDIO™ XM100

Designed for manufacturers of Multi-Room Distributed Audio systems

XR

XS

XM

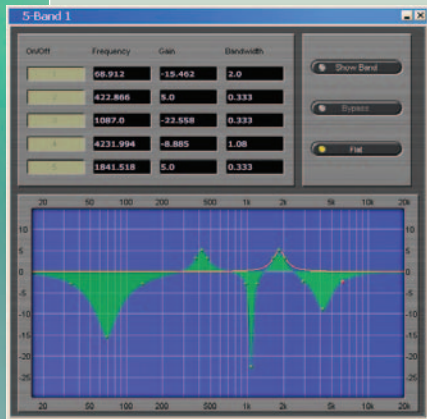
XC

Unprecedented power and sound quality from a digital amplifier

- 100 watts x 6/8 channels, 8Ω, FTC
- <0.05% THD+N (1W, 20 Hz to 20 kHz, 8Ω)
- >105 db SNR
- ± 0.5 dB frequency response, 20 Hz to 20 kHz

Unparalleled audio processing flexibility and simplicity for customizing amplifier and speaker performance:

- D2Audio Canvas™ system design GUI
- Source Processing: Tone Control, Volume Control, 5-Band Parametric EQ
- Zone Processing: Dynamic Range Compression/Limiting, 3-Band Parametric EQ
- Master Volume Control
- 2-wire serial control interface with API
- “Preset Save” capability



Automatically optimize any speaker sound quality via near-field microphone

D2 SPEQ™ speaker equalization option.

Accelerates manufacturer design time and agency certification

Complete digital amplifier module with controller, output stages, output filters, heat sink, fan, and EMI-shielded package. Designed for compliance with FCC, UL, CSA, CE requirements.

Amplifier won't clip, cut out, distort, or fault under extreme conditions

Graceful short-circuit recovery. Thermal sensor protection. Soft current limiting. Anti-clipping feature.

Digital audio inputs eliminate the need for any digital-to-analog conversion for low distortion and low noise floor

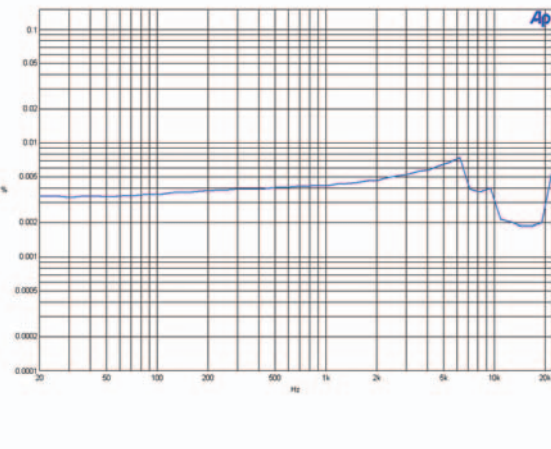
I²S Pure Digital Path Audio Inputs from 32 kHz to 192 kHz (16-24 bit). Dual S/PDIF input option.

Share six stereo input sources, at various sample rates, across two modules to any of 6/8 output zones without any additional circuitry

4x4 Zone Matrix Mixing. Advanced Sample Rate Conversion on all inputs. D2 MultiMix™ input sharing bus option.



THD+N vs. Frequency (1W, 8Ω)



Assign any channel for microphone paging input. Automatically mutes/lower other channels when activated

D2 Page-In™ assignable paging input option.

Amplifier automatically detects and optimizes known speakers to desired sound quality

D2 SPID™ patented speaker identification option.

Efficient, cool design reduces weight by 5x and space by 3x. Eliminates the need for large audio racks and venting of equipment closets

93% efficient. 6.8 x 4.3 x 2.0 inches. 2.2 lbs.

Visibly display amplifier status by channel

ERROR reporting per channel.

Analog Inputs save extra circuitry and space

High-performance internal ADC option.

Performance

- 100 watts x 6/8 channels, 8Ω, FTC
- >105 dB SNR
- <0.05% THD+N (1W, 20 Hz to 20 kHz)
- ±0.5 dB frequency response, 20 Hz to 20 kHz
- 93% Efficient

Audio Processing

- Source
 - Tone Control
 - Volume Control
 - 5-Band Parametric EQ
 - 4-Zone Matrix Mixer
- Zone
 - Dynamic Range Compression/Limiting
 - Adjustable Time Delay
 - 3-Band Parametric EQ
 - Output Power Limiting
- Master Volume Control

Standard Features

- 8-channel IFS Audio Inputs (32 -192 kHz, 16-24-bit)
- Advanced Sample Rate Conversion (SRC) on all inputs
- D2Audio Canvas™ Graphical User Interface (GUI)
- Standard 2-wire serial interface and software control API
- Heat sink with thermally-controlled, low-RPM fan
- Internal microcontroller functions and EEPROM
- Graceful short-circuit, thermal and over-current fault protection.

Advanced Feature Options

- D2 MultiMix™
- D2 SPID™
- D2 SPEQ™
- D2 Page-In™
- High-performance ADC
- Dual S/PDIF Inputs

Dimensions

- 6.8 x 4.3 x 2.0 in
- 17.3 x 10.9 x 5.1 cm

Weight

- 2.2 lbs (1 kg)

Example 16-channel Distributed Audio System

