DSP Series
DSP-Enabled Amplifiers

The DSP100 is an affordable amplifier with fully integrated DSP designed optimize the speakers and acoustical limitations of a zone. The DSP100 comes in two versions, a 1x100W 70/100V and a 2x100W 70/100V and three factory installed input options that include analog, Dante™ and CobraNet®. The robust, full function DSP includes 3 gain stages, filtering, compressors, limiters, parametric EQ and more. Inputs can be line level or Mic with 24V Phantom power configurable through the DSP. A USB port makes programing simple, fast and repeatable for large installations. The optional factory installed Dante™ or CobraNet® cards allow for up to 2 channels of networked audio to be routed to the amplifier and through the DSP. You won't find a more cost effective way to bring outstanding sound quality to zone on the market today.

DSP100-1
DSP100-2
100W x 1 @ 70V/100V
100W x 2 @ 70V/100V

Features:
• Onboard full featured DSP
• Configurable via USB port
• Dante™ & CobraNet® interface available
• 1/2 rack package & convection cooled
• Remote Volume Control
• Signal Sense Technology
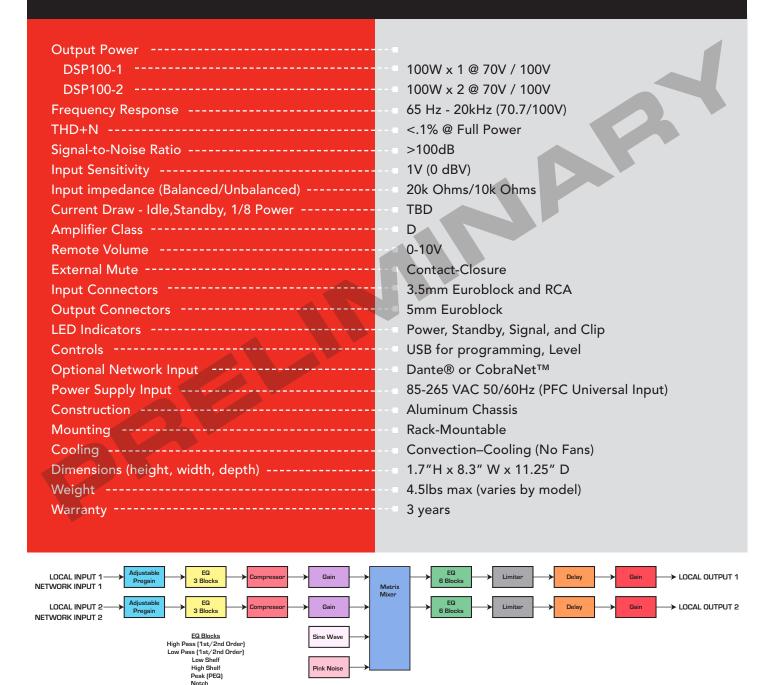• Made in the USA

Applications:
• Network Audio
• Hospitality Installations
• Board Rooms
• Classrooms
• Conference Rooms
• House of Worship
• Remote locations
• Distributed or centralized venues

DSP100-2

STEWARTAUDIO
The Difference is Hear

DSP100 Series

DSP100-1   100W x 1 @ 70V/100V
DSP100-2   100W x 2 @ 70V/100V

Output Power	
DSP100-1	100W x 1 @ 70V / 100V
DSP100-2	100W x 2 @ 70V / 100V
Frequency Response	65 Hz - 20kHz (70.7/100V)
THD+N	<.1% @ Full Power
Signal-to-Noise Ratio	>100dB
Input Sensitivity	1V (0 dBV)
Input impedance (Balanced/Unbalanced)	20k Ohms/10k Ohms
Current Draw - Idle,Standby, 1/8 Power	TBD
Amplifier Class	D
Remote Volume	0-10V
External Mute	Contact-Closure
Input Connectors	3.5mm Euroblock and RCA
Output Connectors	5mm Euroblock
LED Indicators	Power, Standby, Signal, and Clip
Controls	USB for programming, Level
Optional Network Input	Dante® or CobraNet™
Power Supply Input	85-265 VAC 50/60Hz (PFC Universal Input)
Construction	Aluminum Chassis
Mounting	Rack-Mountable
Cooling	Convection–Cooling (No Fans)
Dimensions (height, width, depth)	1.7"H x 8.3" W x 11.25" D
Weight	4.5lbs max (varies by model)
Warranty	3 years

LOCAL INPUT 1 / NETWORK INPUT 1 → Adjustable Pregain → EQ 3 Blocks → Compressor → Gain → Matrix Mixer → EQ 6 Blocks → Limiter → Delay → Gain → LOCAL OUTPUT 1

LOCAL INPUT 2 / NETWORK INPUT 2 → Adjustable Pregain → EQ 3 Blocks → Compressor → Gain → Matrix Mixer → EQ 6 Blocks → Limiter → Delay → Gain → LOCAL OUTPUT 2

EQ Blocks
High Pass (1st/2nd Order)
Low Pass (1st/2nd Order)
Low Shelf
High Shelf
Peak (PEQ)
Notch

Sine Wave
Pink Noise

STEWARTAUDIO
The Difference is Hear