

Digital Distribution Amplifiers

DSA Series

The DSA Series is a family of economical stand-alone digital audio distribution amplifiers. They can also serve as an effective output expander for use with a DDA full featured companion unit. DSA units are available in 1X6 BNC or XLR, 1X12 BNC or XLR, and 1X24 BNC configurations. DSA Series units are simplified, without the input equalizer and front panel status indicators provided on DDA Series units.

DSA Series units support input sample rates from 27 to 96kHz and are not re-clocked, making them ideal as AES clock distribution amplifiers, and also for use when distributing AES/EBU digital audio containing Dolby-E[®] or other encoded metadata that might be damaged when re-clocking is applied.

DSA Series Features & Benefits:

- Accepts sample rates from 27 to 96kHz
- Non re-clocking, ideal for AES Clock Sync distribution or Dolby-E[®] encoded AES audio
- Loop thru transformer balanced and isolated inputs
- Switchable input termination resistors
- Individual, transformer balanced and isolated 110 ohm XLR outputs
- Individual isolated 75-ohm BNC outputs
- Single or dual inputs
- Up to 12 XLR or 24 BNC outputs
- Quiet, internal linear power supplies



Models Available

- DSA106-BNC – 1X6 Audio/Clock/Sync Digital Amplifier, low jitter, no Re-clocking – 75 ohm
- DSA106-XLR – 1X6 Audio/Clock/Sync Digital Amplifier, low jitter, no Re-clocking – 110 ohm
- DSA112-BNC – 1X12 Audio/Clock/Sync Digital Amplifier, low jitter, no Re-clocking – 75 ohm
- DSA112-XLR – 1x12 Audio/Clock/Sync Digital Amplifier, low jitter, no Re-clocking – 110 ohm
- DSA124-BNC – 1X24 Audio/Clock/Sync Digital Amplifier, low jitter, no Re-clocking – 75 ohm
- DSA212-XLR – Dual 1X6 Audio/Clock/Sync Digital Amplifier, low jitter, no Re-clocking – 110 ohm
- DSA224-BNC – Dual1X12 Audio/Clock/Sync Digital Amplifier, low jitter, no Re-clocking – 75 ohm

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Technical Specifications

DSA Series

INPUT	
CONNECTORS	XLR Female or BNC; paralleled input connectors for loop-thru expansion
LEVEL	XLR: 0.2Vp-p minimum; BNC: 0.1Vp-p minimum
IMPEDANCE	Transformer isolated, balanced and floating, XLR: 110 ohms, BNC: 75 ohms
...SAMPLING FREQUENCY	27 to 96kHz
OUTPUT	
CONNECTORS	XLR Male: 6 or 12 depending on model; BNC chassis mount: 6, 12 or 24
BNC	75 ohms, unbalanced, capacitor coupled
OUTPUT JITTER	< 3 nanoseconds peak-to-peak at 96kHz sample rate
OUTPUT DELAY	Three frames (sample intervals) at the sample rate
LEVEL	XLR: 4Vp-p loaded at 110 ohms; BNC: 2Vp-p loaded at 75 ohms
IMPEDANCE	XLR: 110 ohms, balanced and transformer isolated; BNC: 75 ohms, unbalanced
PROPAGATION DELAY	< 100 nanoseconds
POWER SUPPLY	
	Internal supply, 115/230VAC10%, 50/60Hz (wiring change on motherboard, change in field or specify when ordering) 10VA; IEC320 3 pin connector
SIZE	
	1 RU Package, 19" (48.3cm) W x 1-3/4" (4.5cm) H x 7" (17.8cm) D
SHIPPING WEIGHT	
	5 lbs (2.3kg)
WARRANTY	
	Limited, One Year Warranty

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