

GEN - DDA/WC

Digital Sync. Generator

with Word-Clock Distribution



The Radio Systems model GEN - DDA/WC is a professional quality digital sync. generator with an integrated AES/EBU distribution amplifier and six Word Clock outputs.

The two fully independent AES/EBU input sections feature balanced inputs to four buffered balanced outputs. A three digit LED display for each section reads out the sampling frequency. Two LED's for each section indicate PLL (unlock) and data (validity) errors.

In the event of an external AES/EBU signal failure to either input section, the unit automatically switches to a high precision internal signal generator. Front panel indication and selection of the stand-by internal sample frequency is provided. The internal precision generator may be selected to generate clocks in lieu of the external AES/EBU input.

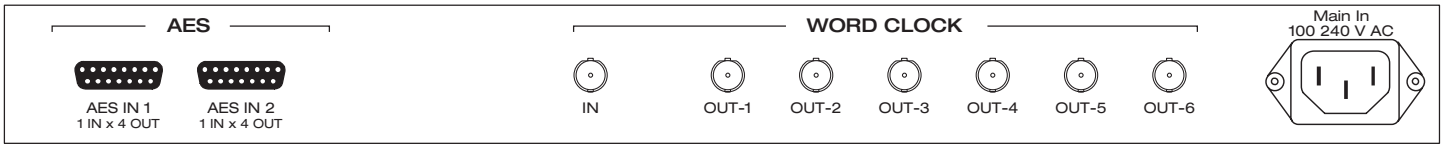
In addition, audio that appears with an AES/EBU input will be distributed to the AES/EBU outputs if the AES/EBU input is selected as the generator source.

An external Word-Clock signal input is provided, buffered and distributed to six independent outputs. In the event of external source failure, or at the user's option, a frame-clock reference signal, selectable from either of the two AES/EBU inputs is regenerated and output to the Word Clock outputs.

Rear connectivity is via 15 pin "D" connectors for AES/EBU signals and BNC connectors for Word Clock input and outputs. Break-out "octopus" cables are available to connect the AES/EBU inputs and distributed outputs via XLR or RJ-45 (StudioHub+ connectors.)

- Two sections of AES-EBU each with four outputs and internal signal generator
- Auto switch over to internal generator with an external AES/EBU signal failure
- Front panel LED sample rate readout and error indication
- Six Word Clock outputs with frame clock synchronization
- 32, 44.1, 48, 82.2, 192 Khz sampling rates supported
- 1 r.u. rack mount with xlr breakout panels available
- 110/220 Volt auto- voltage sensing
- Hot stand-by combiner unit available for automatic change over switching





Specifications

Inputs

AES/EBU

Number of inputs: 2
 Connectors: 15 pin D
 Impedance: 110 Ω typ.
 Sensitivity: min. 0.2 Vpp
 Sample rates: 30 kHz to 200 kHz per the AES3 1992 specification

Word Clock

Number of inputs: 1 external plus one of four selected from AES/EBU Inputs
 Impedance: hi-Z or 75 Ω (jumper)
 Sensitivity: 1 Vpp

Outputs

AES/EBU

Number of outputs: 8 (four for each input)
 Impedance: 110 Ω typ.
 Output level: 5 Vpp, 110 Ω load
 Sample rates: 30 kHz to 200 kHz per the AES3 1992 specification

Word Clock

Number of outputs: 6
 Impedance: 75 Ω, TTL level

Power Supply

Voltage: 90 – 264 VAC
 Frequency: 47-440Hz
 Current Consumption: .5 amps
 Power cable: IEC

Weight:

appr. 6 lbs.

Dimensions:

19" wide x 1 3/4" (1 rack unit) high x 14" deep
 48.26 cm wide x 4.445mm (1 rack unit) high x 35.56mm deep

