

## GALILEO® 616 AES

The Galileo 616 AES is a new version of the processor for the Galileo loudspeaker management system. The new processor provides 16 matrix outputs on eight AES/EBU (AES3) digital outputs. Use this addendum as a supplement to the *Galileo User Guide*. It details the differences between a standard Galileo 616 processor and the new Galileo 616 AES.

### INPUTS

No change has been made to the six audio inputs (A–F) for the Galileo 616 AES. These can be switched between analog and digital in the same manner as the standard Galileo 616.

### OUTPUTS

The top row of eight XLR audio outputs provides 16 channels of AES3 digital outputs (two channels per output; 1–2, 3–4, 5–6, 7–8, and so forth). When connecting these outputs to the inputs of AES/EBU devices, use only cables rated for AES3 signals. The bottom row of eight XLR audio outputs (9–16) provides eight channels of analog outputs and functions the same as a standard Galileo 616. Any output processing applied to outputs 9–16 are mirrored in digital format on the appropriate AES3 output and on the corresponding analog output.



**NOTE:** The Galileo 616 AES exhibits a loss of 8 dB when the output voltage ranges are set to +26 dB, and a loss of 2 dB when set to +20 dB. The gain offset can be corrected by using the output gain controls.

### PROCESSING

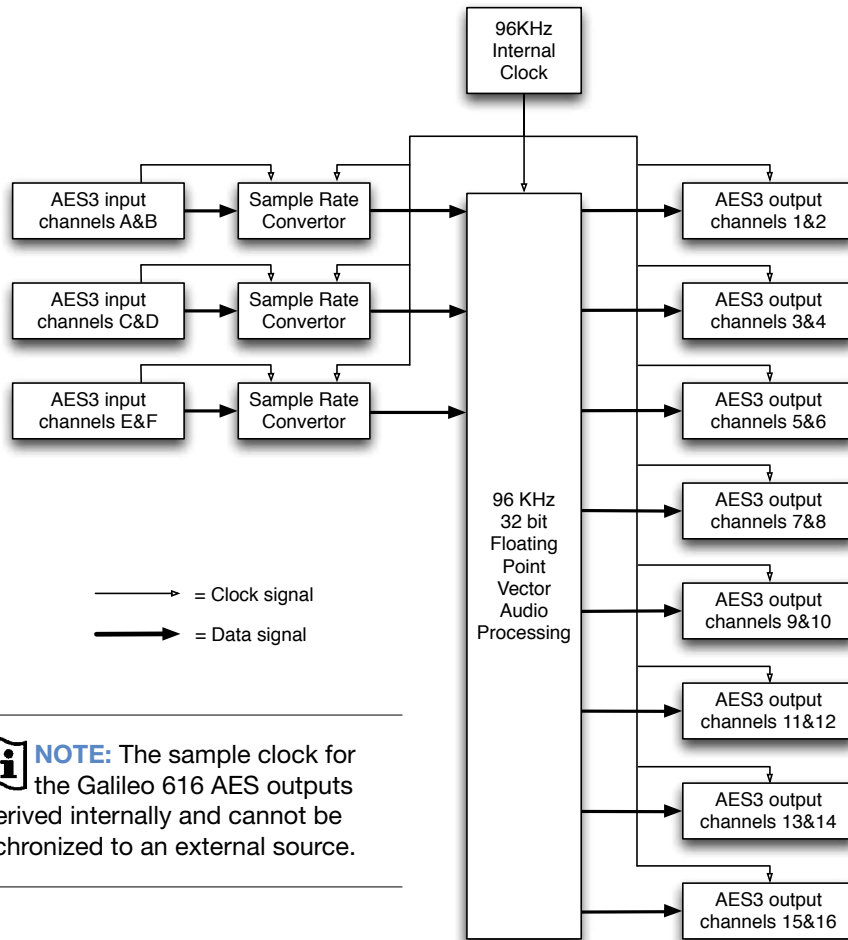
No change has been made to the matrix, input processing, and output processing for the Galileo 616 AES. These function the same as a standard Galileo 616.

## COMPASS

This Galileo 616 AES functions the same as a standard Galileo 616 when connected to the Compass™ software.

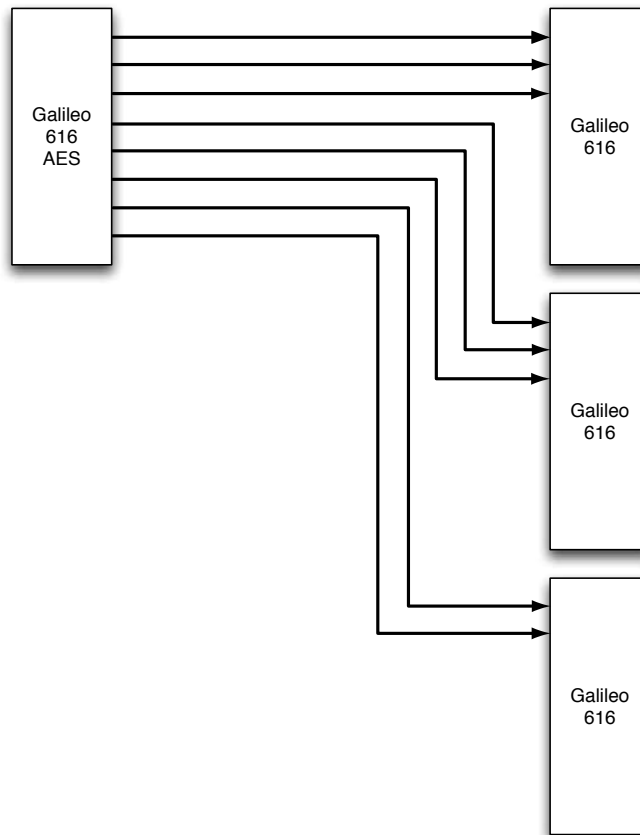
## FIRMWARE

Only standard Galileo 616 firmware should be loaded onto the Galileo 616 AES.



**NOTE:** The sample clock for the Galileo 616 AES outputs is derived internally and cannot be synchronized to an external source.

Galileo 616 AES Clocking Scheme



*Galileo 616 AES Typical Application*



**NOTE:** The Galileo 616 AES is designed to drive Galileo 616 inputs. The output sample clock for the Galileo 616 AES is from the internal 96kHz clock and can not be synchronized to an external source. Galileo 616 AES outputs can be connected to any AES3 input that can receive a 96kHz clock embedded in the AES3 signal.



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Printed in the U.S.A.

Part Number: 05.141.033.09 A