

National chip has low-jitter video ability

April 10 2006

A new video synchronization separator boasts the industry's best "jitter" performance for high-definition applications, National Semiconductor said Monday.

The Silicon Valley giant said in a news release that the LMH1981 chip will allow video designers to extract horizontal and vertical synch signals without the need for extra cleaning steps or filtering equipment.

Jitter refers to the slight fluctuation of video signals that can put a pixel outside of its proper position on a display.

Testing has shown the LMH1981 yields up to a 30-percent improvement in output jitter, which improves the overall efficiency of designs for HD video products up to 1080i and 1080p (1920x1080 interfaced or progressive pixels).

The chip runs on the same 3.3-volt to 5-volt power supply used in many current DVD and VHS equipment.

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Citation: National chip has low-jitter video ability (2006, April 10) retrieved 4 April 2024 from <https://phys.org/news/2006-04-national-chip-low-jitter-video-ability.html>

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