



GENNUM
C O R P O R A T I O N

Gennum demonstrates broadcast industry's first complete clock and timing generator IC

(Las Vegas, Nevada, April 19, 2004) – Gennum is demonstrating the GS4911 Clock and Timing Generator with Genlock at the National Association of Broadcasters (NAB) show (LVCC Booth C8119). This device is the first in the GEN-Clocks™ line of clock and timing ICs from Gennum.

Reduce Complexity and Space – Increase Flexibility and Functionality

The GS4911 saves board space and reduces design complexity because it is a complete multi-rate video and audio clock and timing generator. This one 9mm x 9mm IC plus a reference crystal replaces multiple VCXOs, PLLs and timing generators.

The GS4911 is highly flexible and rich in functionality. It can recognize input reference signals conforming to 36 different video standards and 16 different graphic formats, and can genlock the output clock and timing to reference with a variable offset. The GS4911 supports cross-locking, allowing the output to be genlocked to an incoming reference that is different from the output video standard selected. Input reference signals can be analog (and taken directly from a Gennum sync separator) or digital (and taken directly from a Gennum deserializer).

Clock Synthesis

The GS4911 is capable of simultaneously generating any video clock up to 165MHz and any audio clock up to 512*96kHz. It is pre-programmed for 9 video, 16 graphics and 7 audio rates and is user-programmable for any rate in between. The clock frequencies are highly accurate, limited only by the accuracy of the 27MHz reference, which can be from a crystal or any other 27MHz source already on the board.

Three copies of the output video clock are provided, one differential and two single-ended. Each one can be individually delayed. Connect the output video clock directly to a Gennum serializer for SMPTE SD or HD output. Three audio clock outputs are also provided.

Timing Generation

The GS4911 can generate up to 8 different timing signals at a time. For these 8 outputs, choose from 10 pre-programmed timing signals or up to 4 user-programmable timing signals. Pre-programmed timing signals consist of H sync, H blanking, V sync, V blanking, F sync, F digital, color field ID, 10-field ID, display enable and audio frame sync.

General Information

Four versions of the device will be available. The GS4900 generates video clocks up to 54MHz. The GS4901 adds audio clock outputs to the GS4900. The GS4910 generates video clocks up to 165MHz. The superset GS4911 adds audio clock outputs to the GS4910. Samples and pre-production of all four versions will be available in the summer of 2004.

About Gennum

Gennum Corporation is a leading producer of silicon integrated circuits and hybrid circuits for the video, hearing instrument and data communications markets. The company has offices in Burlington and Ottawa, Canada, and subsidiaries in Japan and the United Kingdom.

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