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GS2961A Receiver

Enabling 3Gb/s Data Rates at HD Cable Runs

A multi-rate SDI integrated Receiver which includes complete SMPTE processing, as per SMPTE 425M (Level A and Level B), SMPTE 424M, 292Mand SMPTE 259M-C

product information

documentation

Overview

The GS2961A is a multi-rate SDI integrated Equalizer Receiver which includes complete SMPTE processing, as per SMPTE 425M (Level A and Level B), SMPTE 424M, 292M and SMPTE 259M-C.

The SMPTE processing features can be bypassed to support signals with other coding schemes.

The GS2961A integrates Gennum's next-generation state-of-the-art adaptive cable equalization technology, achieving unprecedented cable lengths and jitter tolerance. It features DC restoration to compensate for the DC content of SMPTE pathological signals.

The device features an Integrated Reclocker with an internal VCO and a wide Input Jitter Tolerance (IJT) of 0.7UI. A serial digital loop through output is provided, which can be configured to output either reclocked or non-reclocked serial digital data. The Serial Digital Output can be connected to an external Cable Driver.

The device operates in one of four basic modes: SMPTE mode, DVB-ASI mode, Data-Through mode or Standby mode.

In SMPTE mode, the GS2961 performs SMPTE de-scrambling and NRZI to NRZ decoding and word alignment. Line-based CRC errors, line number errors, TRS errors and ancillary data check sum errors can all be detected. The GS2961A also provides ancillary data extraction. The entire ancillary data packet is extracted, and written to host-accessible registers. Other processing functions include H:V:F timing extraction, Luma and Chroma ancillary data indication, video standard detection, and SMPTE 352M packet detection and decoding. All of the processing features are optional, and may be enabled or disabled via the Host Interface.

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Features/Highlights

- Integrated adaptive cable equalizer
- Integrated Reclocker with low phase noise, integrated VCO
- Typical equalized length of Belden 1694A cable:
 - 150m at 2.97Gb/s
 - 230m at 1.485Gb/s
 - 440m at 270Mb/s

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Key Applications

- Monitors
- Camera control units
- Multiviewers

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Ordering Information

Part No	Package
GS2961A - IBE3	100 ball BGA

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