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Semtech GS6080

6G UHD-SDI Cable Driver



The GS6080 is a high-speed BiCMOS integrated circuit designed to drive one or two 75 Ohms coaxial cables. The GS6080 may drive data rates up to 5.94Gb/s and provides two selectable slew rates in order to achieve compliance to SMPTE ST 424, SMPTE ST 292 and SMPTE ST 259.

Overview ▼

Features

- SMPTE ST 2081, ST 424, ST 292, and ST 259-C compliant
- Supports DVB-ASI at 270Mb/s
- Supports data rates from 270Mb/s to 5.94Gb/s
- Wide common-mode range input buffer
 - 100mV sensitivity
 - Supports DC-coupling to industry-standard differential logic on-chip 100 Ohms differential data input termination
- Input signal trace equalization
- Differential coaxial-cable-driving output
 - Selectable slew rates
 - Adjustable output swing from 500mVpp to 1040mVpp
 - Disable control
- Robust signal presence function
- Excellent output eye quality
- Power supply operation at +3.3V or +2.5V
- 135mW power consumption (+2.5V supply)
- Operating temperature range: -40°C to +85°C
- Small footprint QFN package (4mm x 4mm)
 - Drop-in compatible to the GS2978 and GS2988
- Pb-free and RoHS compliant

Applications

- SMPTE ST 2081, SMPTE ST 424, SMPTE ST 292, SMPTE ST 259 and AES10 coaxial

Order Codes

- GS6080-INE3: Lead-Free, RoHS Compliant, Tray-490 Pieces
- GS6080-INTE3: Lead-Free, RoHS Compliant, Tape and Reel-250 Pieces
- GS6080-INTE3Z: Lead-Free, RoHS Compliant, Tape and Reel-2500 Pieces

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Application Notes

[GS6080 Design Guide](#)

Datasheets

[GS6080 Data Sheet](#)

Technical Notes

[GS6080/GS6081 IBIS-AMI Model](#)

[GS6080/GS6081 Reliability Qualification Report](#)

[IPC1752-2, Class 6 for: GS6080](#)

User Guides

[EB-6GSRD Evaluation Board User Guide](#)

[GS6080/GS6081 IBIS-AMI Model User Guide](#)

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