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- > **GS1660**
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Semtech GS1662

HD-, SD-SDI and DVB-ASI Transmitter Complete with SMPTE Video Processing

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Overview

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The GS1662 is an SDI transmitter, generating a SMPTE 292M, SMPTE 259M-C or DVB-ASI compliant serial digital output signal.

The integrated ClockCleaner™ allows the device to accept parallel clocks with high input jitter, and still provide a SMPTE compliant serial digital output.

The device can operate in four basic user selectable modes: SMPTE mode, DVB-ASI mode, Data-Through mode, or Standby mode.

In SMPTE mode, the GS1662 performs all SMPTE processing features.

In DVB-ASI mode, the device will perform 8b/10b encoding prior to transmission.

In Data-Through mode, all SMPTE and DVB-ASI processing is disabled. The device can be used as a simple parallel to serial converter.

The device can also operate in a lower power Standby mode. In this mode, no signal is generated at the output.

The GS1662 includes a fully SMPTE-compliant cable driver for SMPTE 292M and SMPTE 259M-C interfaces. It features automatic dual slew-rate selection, depending on HD- or SD-SDI operational requirements.

Features

- ▶ Integrated low noise VCO and integrated ClockCleaner™
- ▶ SMPTE video processing including TRS calculation and insertion, line number calculation and insertion, line based CRC calculation and insertion, illegal code re-mapping, SMPTE 352M payload identifier generation and insertion
- ▶ Integrated cable driver
- ▶ Supports SMPTE 292M, SMPTE 259M-C and DVB-ASI
- ▶ Operation at 1.485Gb/s, 1.485/1.001Gb/s and 270Mb/s
- ▶ Ancillary data insertion
- ▶ Parallel data bus selectable as either 20-bit or 10-bit
- ▶ GSPI Host Interface
- ▶ 1.2V digital core power supply, 1.2V and 3.3V analog power supplies, and selectable 1.8V or 3.3V I/O power supply
- ▶ -20°C to +85°C operating temperature range
- ▶ Low power operation (330 mW typical, including cable driver)
- ▶ Small 11mm x 11mm 100-ball BGA package
- ▶ Pb-free and ROHS compliant

Applications

- > Cameras
- > Camera Control Units
- > Multiviewers
- > Production Switchers
- > Master Control Switchers
- > VTRs
- > Video Servers
- > Encoders/Decoders
- > Up/Down/Cross Converters
- > Audio Embedders
- > Format Detectors
- > Test and Measurement Equipment

Order Codes

- > GS1662-IBE3: Lead-Free, RoHS Compliant, Tray-168 Pieces

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