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# Semtech GS3490

Configurable Adaptive Cable Driver &amp; Equalizer

**Overview****Diagrams & Specs****Docs & Resources****Sample & Buy**

The GS3490 features integrated adaptive cable equalizer and cable driver functionality. The GS3490 can be field-configured as a SMPTE compliant cable equalizer or a SMPTE compliant cable driver.

The GS3490 is optimized for applications with limited I/O space. With its configurable EQ and Cable driver functionality, the GS3490 can be utilized as a single-device solution in applications where the interface connector can be configured as either an input or output.

The GS3490's cable equalizer is optimized for operation at 2.97Gb/s, 1.485Gb/s and 270Mb/s while providing typical cable reach of 140m at 2.97Gb/s, 250m at 1.485Gb/s and 550m at 270Mb/s.

In cable driver mode, the dual slew rate capability provides compatibility to SMPTE ST 259, SMPTE ST 292 and SMPTE ST 424 interfaces.

## Features

- ▶ Connection to a single BNC connector as an adaptive cable equalizer or cable driver
- ▶ Multi-rate operation from 125Mb/s to 2.97Gb/s (performance optimized for SMPTE ST 424, SMPTE ST 292 and SMPTE ST 259 data rates)
- ▶ Supports DVB-ASI at 270Mb/s
- ▶ Integrated 100ohm differential digital data input/output termination
- ▶ Low power operation:
  - ▶ 206mW typical power consumption in EQ mode
  - ▶ 190mW typical power consumption in CD mode
- ▶ Operating temperature range: -40°C to +85°C
- ▶ 5mm x 5mm QFN package

## Applications

- ▶ SMPTE ST 424, SMPTE ST 292 and SMPTE ST 259 interfaces requiring switching between cable equalizing or cable driving functionality

## Order Codes

- ▶ GS3490-INE3: 32-pin QFN

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