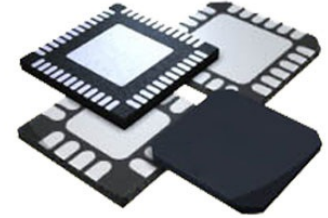


Reclocker -40°C to 85°C 32-Pin QFN EP



Images are for reference only

[Inquiry](#)

Manufacturer: [Semtech Corporation](#)

Package/Case: QFN

Product Type: Logic ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: NRND

General Description

The GS2965 is a multi-rate serial digital reclocker designed to automatically recover the embedded clock from a digital video signal and retime the incoming video data.

Key Features

SMPTE 424M, SMPTE 292M and SMPTE 259M-C compliant

Single supply operation at 3.3V or 2.5V

180mW typical power consumption (213mW with RCO enabled) at 2.5V

Input signal equalization and output-signal de-emphasis settings to compensate for board-trace dielectric losses

Supports DVB-ASI at 270Mb/s

2:1 input multiplexer patented technology

Choice of dual reclocked data outputs or one reclocked data output and one clock output

Uses standard 27MHz crystal

Differential inputs and outputs

Support DC coupling to industry-standard differential logic

On-chip 100 Ω differential data input/output termination

Selectable 400mVppd or 800mVppd output swing on each output

Seamless interface to other Gennum products

4 wire SPI host interface for device configuration and monitoring

Standard logic control and status signal levels

Auto and Manual modes for rate selection

Standards indication in Auto mode

Lock Detect Output

Mute, Bypass and Autobypass functions

SD/HD indication output to control GS2978 or GS2988 dual slew-rate cable drivers

Operating temperature range: -40°C to +85°C

32 pin 5mm x 5mm QFN package

Pb-free and RoHS compliant

Application

Distribution Amplifiers

Master Control Switchers

Production Switchers

Routers

SMPTE 424M, SMPTE 292M and SMPTE 259M-C coaxial cable serial digital interfaces

Test and Measurement Equipment

Order Codes

GS2965-INTE3: Lead-Free, RoHS Compliant, Tape and Reel-250 Pieces

GS2965-INE3: Lead-Free, RoHS Compliant, Tray-490 Pieces

Recommended For You

GS2988-INE3

Semtech Corporation
QFN

GS2962-IBE3

Semtech Corporation
BGA

GS2970-IBE3

Semtech Corporation
BGA

GS2971AIBE3

Semtech Corporation

BGA

GS1578ACNE3

Semtech Corporation

QFN

GS2972-IBE3

Semtech Corporation

BGA100

GS2989-INE3

Semtech Corporation

QFN16

GS1661AIBE3

Semtech Corporation

BGA100

GS12281-INE3

Semtech Corporation

QFN40

GS12070-IBE3

Semtech Corporation

BGA196

GS1559-CBE2

Semtech Corporation

BGA

GS2961-IBE3

Semtech Corporation

BGA

GS2971-IBE3

Semtech Corporation

BGA

GS6151-INIE3

Semtech Corporation

32-VFQFN

GS2960-IBE3

Semtech Corporation

BGA100