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> **GV7600**
Serial Digital Video Transmitter for Standard and High Definition Component Video

> **GV7605**
Serial Digital Video Receiver for Standard and High Definition Component Video

> **GV8500**
GV8500 Avia™ Cable Driver

> **GV8601**
GV8601 Avia™ Adaptive Cable Equalizer

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Semtech GV7601

Serial Digital Video Receiver for Standard and High Definition Component Video

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The GV7601 is a serial digital video receiver for standard and high definition component video, operating at 270Mb/s, 1.485Gb/s and 2.97Gb/s data rates.

With integrated cable equalizer technology, the GV7601 is capable of receiving digital video over 75Ω coaxial cable at lengths up to 460m for standard definition video, and up to 230m for high definition, using high quality RG6 or equivalent. This provides a complete receive solution for the transmission of both interlaced and progressive component digital video, up to 1920 x 1080, in coaxial cable-based video systems.

Features

- > Supports HD formats:
 - > 720p24, 25, 30, 50 & 60
 - > 1080i50 & 60
 - > 1080p24, 25, 30, 50 & 60
- > Supports 525i & 625i SD D1 format
- > Receives HD at 1.485 Gb/s video over 230m of 75Ω coaxial cable (RG6 or equivalent)
- > 16/20-bit BT.1120 YCbCr 4:2:2 at 74.25 MHz or YCbCr/RGB 4:4:4 output at 148.5 MHz
- > 8/10-bit BT.656 YCbCr 4:2:2 output at 27 MHz
- > Support up to 8 channels of S/PDIF or I2S serial digital audio output at 48 kHz sampling
- > Support IEC 13818-1 transport streams over an Asynchronous Serial Interface (ASI)
- > Auxiliary data extraction via SPI interface
- > 11mm x 11mm 100-BGA
- > Power: 570mW typical
- > Wide temp. range: -20°C to +85°C

Applications

- > Digital video recorders (DVR)
- > Video servers, mixers & switchers
- > Video monitors & displays
- > Framegrabbers & video capture devices
- > Video compression CODECs
- > Targeted Markets:
 - > Surveillance & HD-CCTV
 - > Machine Vision
 - > Digital Signage
 - > Large Venue Displays
 - > Video Conferencing
 - > Medical Imaging
 - > Industrial A/V
 - > Passenger Infotainment

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Part No	Package
GV7601-IBE3	Tray (168 pcs)

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