



## HD-SDI / HDcctv SOLUTIONS

With Intersil's TW6872 triple speed HD-SDI TX and TW6874 triple speed, quad HD-SDI RX you get picture perfect, latency-free video.

- **HDcctv system capable**
  - Full HDcctv SR distance
- **Maximum cable reach**
  - VC-2 (Dirac) compression delivering HD video at SD cable lengths (300+ m)
  - Low jitter TX with integrated cable driver with pre-emphasis support
  - Automated EQ, any cable, any distance, plug and go
- **Image Enhancement in RX**
  - Adjust Brightness, Contrast, Hue or Saturation at the DVR
- **Integrated audio**
  - Analog decoders in TX and RX

### Intersil HD-SDI Features and Benefits

	<b>TW6872</b> (Transmitter w/ VC-2 Encode)	<b>TW6874</b> (Quad Receiver w/ VC-2 Decode)
Triple Speed	270 MHz, 1.5 Gbps, 3.0 Gbps	270 MHz, 1.5 Gbps, 3.0 Gbps
Plug/Play Interoperability	Supports SMPTE (259M/292M/424M) Standards & HDcctv Alliance Version 1.0 SR	Supports SMPTE (259M/292M/424M) Standard & HDcctv 1.0 SR / XR Standard
Extended Cable Distances	Cable Driver with Pre-emphasis VC-2 Compression to Reduce HD Data to SD-SDI Stream (270 MHz)	Support for Pre-emphasis TX Devices Cable Equalization - 3C2V, RG59, RG6 VC-2 Encoded Transmitted Streams Up to 300 m RG-59 Up to 150 m 3C2V
Audio Support	Analog Audio (Stereo) or Stereo I2S Audio Streams Inserted in SDI data stream	5 Analog Audio, 4 SDI audio signals and 1 digital audio stream (output) Cascade Audio Support, Audio Mixer Output
Additional Features	Operates as Master to Control ISP Clocking (Reduces Output Jitter)	Adjust Brightness, Color, Contrast, and Saturation at the Receiver

**TW6872: Triple-rate (SD/HD/3G) SDI transmitter with VC-2 encoder and audio decoder**

- Triple-rate (SD/HD/3G) SDI transmitter for Standard Definition (SD) and High Definition (HD), and 3G 10-bit component video
- Supports SDI standards SMPTE 259M Level C, SMPTE ST 292, SMPTE 424M
- Supports BT.656 SD, BT.1120 10 or 20-bit parallel HD component video inputs

**TW6874: Quad triple-rate (SD/HD/3G) SDI receiver with adaptive equalizer, VC-2 decoder and audio CODEC**

- Quad triple-rate (SD/HD/3G) SDI receiver for standard (SD) and high (HD/3G) definition 10-bit component video
- Automatic SDI detection of SMPTE 259M Level C (SD-SDI), SMPTE ST 292 (1.5G SDI), and SMPTE 424M (3G SDI) signals
- Each SDI input standard supported with ITU-R BT.656 (SD) or ITU-R BT.1120 (8-bit or 16-bit 1.5 G, and 16-bit 3G) interface output
- Supports up to 5 channels of analog or digital audio

