GENERAL DESCRIPTION

The PS8401 integrates a jitter tolerant TMDS receiver and a jitter cleaning TMDS transmitter for HDMI repeater applications. It removes both the data and clock jitter and the timing skews from the TMDS input to deliver a compliant and very low jitter HDMI output.

The PS8401 is ideal for Source, Sink and repeater device applications where jitter attenuation is needed. Such requirement might exist in a Source to remove Tx jitter and/or induced media (transmission path) jitter in order to meet HDMI output jitter requirements, especially at higher TMDS clock rates. It can also be used within a switch or Sink as a repeater function to improve signal integrity. Signal integrity can be further optimized through the use of the PS8401’s programmable input equalization and output pre-emphasis controls.

The PS8401 can accept either an AC or DC coupled input signal.

APPLICATIONS

- PC mother board or graphics card
- Dual-mode DisplayPort to HDMI/DVI Cable Adapters
- Cable extension with active repeater
- DVD Players or Set-top boxes
- Game console
- AV receivers