



August 2007

FSHDMI08 Low-Voltage, Wide-Bandwidth, HDMI Switch with DDC and CEC Multiplexer

Features

- -25db Non-Adjacent Channel Crosstalk at 1.65Gbps
- Low Signal Loss: -1.5dBg attenuation at 1.65Gbps
- Isolation Ground Between Channels
- Fast Turn-on/off Time (< 6ns)
- 1.65Gbps Throughput
- 8kV ESD Protection
- Low Skew: Intra-pair <90ps, Inter-pair < 150ps
- Low Power Consumption (1μA Maximum)

Applications

- XGA and 720p DVI and HDMI Video Source Selection

Description

The FSHDMI08 is a wide-bandwidth switch designed for routing HDMI link data, clock, and the relevant DDC and CEC control signals that support the data rate up to 1.65Gbps per channel for UXGA resolution. Applications include LCD TVs, DVD, set-top boxes, and notebook designs with multiple digital video interfaces.

This switch allows the passage of HDMI link signals with ultra-low non-adjacent channel crosstalk and ultra-low off isolation. This is critical to minimize ghost image between active video sources in video applications. The wide bandwidth of this switch allows the high-speed differential signal to pass through with minimal additive skew and phase jitter. The pinout supports an HDMI Standard-A connector PCB layout.

IMPORTANT NOTE:

For additional performance information, please contact analogswitch@fairchildsemi.com.

Ordering Information

Order Number	Pb-Free	Package Description
FSHDMI08MTDX	Yes	56-Lead, Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 6.1mm Wide
FSHDMI08BQX (Preliminary)	Yes	56-Lead, Molded Leadless Package (MLP), 5x7mm Wide

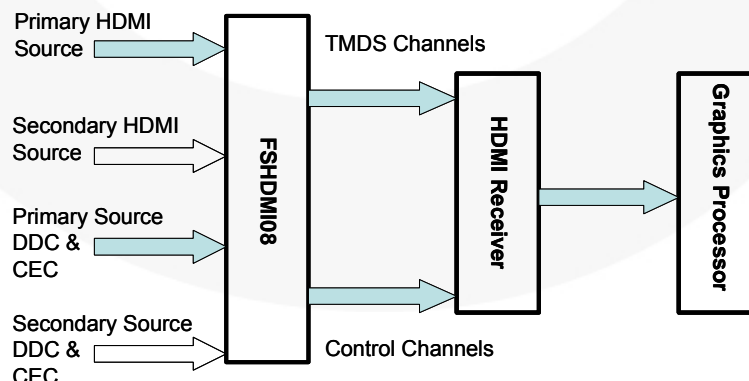



Figure 1. Single-Link HDMI Application



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