

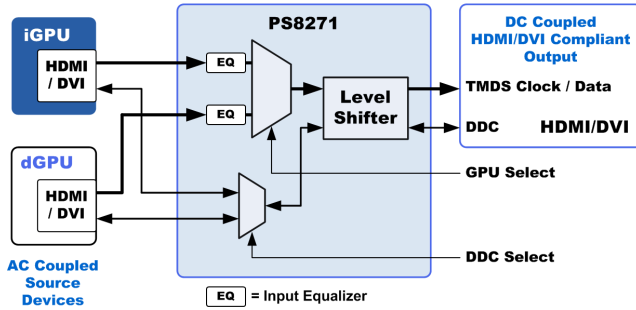


# PS8271 HDMI™/DVI Multiplexer with Level Shifter

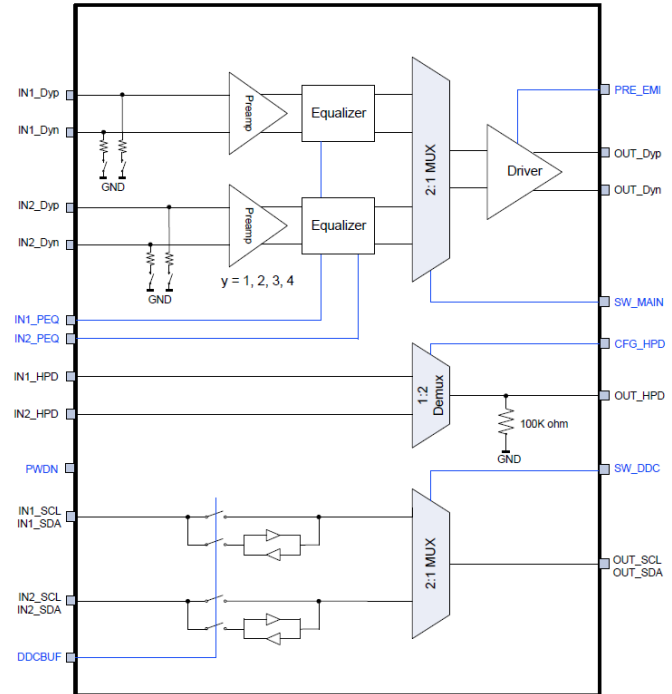
## Product Brief

# PS8271

### TYPICAL SYSTEM APPLICATION



### BLOCK DIAGRAM



### FEATURES

- Provides 2:1 multiplexing for HDMI/DVI signals
- Supports AC coupled HDMI/DVI inputs typical in a PC graphics application
- Output is DC coupled and compliant with HDMI/DVI specifications
- Compliant to HDMI 1.4a specification up to 2.25 Gbps
- Programmable receiver equalization to compensate for PCB and/or connector losses
- Low Intra-pair and Inter-pair skews
- Supports both DDC active buffering and passive switch for Side-band signals
- Automatic Power Down management
- Automatic squelch for fail-safe and power management
- Programmable TMDS output pre-emphasis and EMI reduction
- Separated main data and DDC switching controls for optimized Switchable Graphics
- Single 3.3 V Power Supply
- 0°C to 85°C Operating Temperature Range
- ESD: HBM at 8kV, MM 400V, CDM 2kV
- 48-pin QFN Halogen free RoHS Package

### APPLICATIONS

- Switchable graphics in Desktop and Notebook PC motherboards
- Notebook docking stations
- Graphics cards

### DESCRIPTION

The PS8271 is a 2:1 HDMI/DVI multiplexer to be used with AC coupled TMDS Source devices. It is suitable for switchable GPU system implementations or other applications requiring multiple HDMI/DVI inputs and a single output. Output is DC coupled and compliant with HDMI/DVI specifications.

The DDC I2C pins are bi-directional and 5V tolerant. HPD pins are uni-directional, and OUT\_HPD is 5 V tolerant. The built-in equalization can compensate for PCB losses up to 7dB.

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Parade Technologies, Inc.  
2890 Zanker Road, Suite 102  
San Jose, CA 95134 USA  
Tel: 408-329-5540 FAX: 408-329-5541

<http://www.paradetech.com>